CLINICAL REVIEW

CHANGES IN WEIGHT, LIPIDS, AND GLUCOSE WITH QUETIAPINE

Application Type NDA 20-639 and NDA 22-047

Submission Number 000

Drugs SEROQUEL (Quetiapine fumarate)

SEROQUEL XR (Quetiapine

Extended Release)

Submission Date June 26, 2008

Name of Reviewer Kavneet Kohli-Chhabra, M.D.

Medical Officer

Cara L. Alfaro, Pharm.D.

Clinical Analyst

Review Completion Date March 26, 2009

Therapeutic Class Atypical Antipsychotic

Subject Metabolic Parameters (Hyperglycemia,

Hyperlipidemia, and Weight Gain)

Sponsor AstraZeneca

Formulation Oral

Dosing Regimen Multiple (50 - 800 mg)

Indications Multiple

Table of Contents

1	Executive Summary Section	8
1.1	Recommendation on Regulatory Action	8
1.2	Recommendation on Postmarketing Actions	8
1.3	Summary of Clinical Findings	8
2	Introduction and Background	13
3	Method	14
3.1	Dose-Related Analyses	14
4	Study Population	15
5	Weight Gain	
5.1	Adult Subjects in Placebo-Controlled Trials	
	5.1.1 Mean Change Analyses	
	5.1.2 Categorical Analyses	
5.2	Adult Subjects in Comparator-Controlled Trials	
	5.2.1 Mean Change Analyses	
	5.2.2 Categorical Analyses	
5.3	Adult Subjects in Long Term Controlled and Uncontrolled Trials	
	5.3.1 Mean Change Analyses	
<i>-</i> 1	5.3.2 Categorical Analyses	
5.4	Antipsychotic-Naïve Subjects in Placebo-Controlled Trials	
	5.4.1 Mean Change Analyses	
5.5	5.4.2 Categorical Analyses	
3.3	Antipsychotic-Naïve Subjects in Comparator-Controlled Trials	
	\mathcal{E}	
5.6	5.5.2 Categorical Analyses	
3.0	5.6.1 Mean Change Analyses	
	5.6.2 Categorical Analyses	
6	Glucose	42
6.1		
	6.1.1 Mean Change Analyses	
	6.1.2 Categorical Analyses	
6.2	Adult Subjects in Comparator-Controlled Clinical Trials	
	6.2.1 Mean Change Analyses	
	6.2.2 Categorical Analyses	
6.3	Adults Subjects in Long Term Controlled and Uncontrolled Clinical Trials	
	6.3.1 Mean Change Analyses	
	6.3 2 Categorical Analyses	
6.4	Antipsychotic-Naïve Subjects in Placebo-Controlled Trials	
	6.4.1 Mean Change Analyses	

	6.4.2 Categorical Analyses	73
6.5	<i>3</i>	
	6.5.1 Mean Change Analyses	
	6.5.2 Categorical Analyses	
6.6		
	6.6.1 Mean Change Analyses	
	6.6.2 Categorical Analyses	
7	Lipids	
7.1	5	
	7.1.1 Mean Change Analyses	
	7.1.2 Categorical Analyses	
7.2	3	
	7.2.1 Mean Change Analyses	
	7.2.2 Categorical Analyses	
7.3	\mathcal{E}	
	7.3.1 Mean Change Analyses	
	7.3.2 Categorical Analyses	
7.4	1 3	
	7.4.1 Mean Change Analyses	104
	7.4.2 Categorical Analyses	
7.5		
	7.5.1 Mean Change Analyses	
	7.5.2 Categorical Analyses	
7.6	Antipsychotic-Naïve Subjects in Controlled and Uncontrolled Trials	111
	7.6.1 Mean Change Analyses	111
	7.6.2 Categorical Analyses	112
8	APPENDIX	
8.1	\mathcal{E} \mathcal{E} 1	
	8.1.1 Adult subjects in placebo-controlled trials	
	8.1.2 Adult subjects in comparator-controlled trials	
	8.1.3 Adult subjects in Controlled and Uncontrolled trials	
	8.1.4 Subjects with first episode psychosis and antipsychotic-naïve subjects i controlled trials	
	8.1.5 Subjects with first episode psychosis and antipsychotic-naïve subjects i	
	comparator-controlled trials	
	8.1.6 Subjects with first episode psychosis and antipsychotic naïve in control	
	uncontrolled trials	
8.2		

List of Tables

Table 2. Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials). Table 4. Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) by BMI category (placebo-controlled trials). Table 5. Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) by BMI category (placebo-controlled trials). Table 6. Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) by BMI category (placebo-controlled trials). Table 6. Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) by week (short-term placebo-controlled trials). Table 7. Weight (hange (kg) from Baseline to Endpoint By Weck, All Trixed-Dose Placebo-Controlled Trials). Table 8. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials). Table 10. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (placebo-controlled trials). Table 10. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (placebo-controlled trials). Table 11. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (send-pose Placebo-Controlled Trials (LOCP). Table 12. Proportion of Subjects with Weight (n kg) change at Week (bight Change Categories, Fixed-Dose Placebo-Controlled Trials (LOCP). Table 13. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (somparator-controlled trials). Table 14. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials). Table 15. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by West (comparator-controlled trials). Table 16. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by West (comparator-controlled trials). Table 18. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials). Table 18. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (co	Table 1: Subject groups summarized for metabolic data	16
Table 5: Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) by BMI category, (Blacebo-controlled trials). 18 Table 5: Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) by week (short-term placebo-controlled trials). 18 Table 7: Weight (fin kg.) - change from baseline (BL) to end of treatment (EOT) by week (short-term placebo-controlled trials). 19 Table 7: Weight (fin kg.) - change from baseline (BL) to end of treatment (EOT) by week (short-term placebo-controlled trials). 20 Table 9: BMI (kg/m²) - change from Baseline to Endpoint; Pixed-Dose Placebo-Controlled trials). 21 Table 9: BMI (kg/m²) - change from Baseline to Endpoint; Pixed-Dose Placebo-Controlled trials). 22 Table 19: BMI (kg/m²) - change from Baseline to Endpoint; Pixed-Dose Placebo-Controlled trials). 23 Table 19: BMI (kg/m²) - change from Baseline (BL) to end of treatment (EOT) by BMI category (placebo-controlled trials). 24 Table 12: Proportion of Subjects with Weight (kap.) to end of treatment (EOT) by BMI category (placebo-controlled trials). 25 Table 19: Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) to placebo-controlled trials). 26 Table 19: Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials). 27 Table 19: Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) by week (comparator-controlled trials). 28 Table 19: Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) by week (comparator-controlled trials). 29 Table 19: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials). 20 Table 19: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by Week (comparator-controlled trials). 21 Table 20: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 22 Table 20: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-co	Table 2: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials)	17
Table 5: Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) by BMI category, (Blacebo-controlled trials). 18 Table 5: Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) by week (short-term placebo-controlled trials). 18 Table 7: Weight (fin kg.) - change from baseline (BL) to end of treatment (EOT) by week (short-term placebo-controlled trials). 19 Table 7: Weight (fin kg.) - change from baseline (BL) to end of treatment (EOT) by week (short-term placebo-controlled trials). 20 Table 9: BMI (kg/m²) - change from Baseline to Endpoint; Pixed-Dose Placebo-Controlled trials). 21 Table 9: BMI (kg/m²) - change from Baseline to Endpoint; Pixed-Dose Placebo-Controlled trials). 22 Table 19: BMI (kg/m²) - change from Baseline to Endpoint; Pixed-Dose Placebo-Controlled trials). 23 Table 19: BMI (kg/m²) - change from Baseline (BL) to end of treatment (EOT) by BMI category (placebo-controlled trials). 24 Table 12: Proportion of Subjects with Weight (kap.) to end of treatment (EOT) by BMI category (placebo-controlled trials). 25 Table 19: Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) to placebo-controlled trials). 26 Table 19: Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials). 27 Table 19: Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) by week (comparator-controlled trials). 28 Table 19: Weight (in kg.) - change from baseline (BL) to end of treatment (EOT) by week (comparator-controlled trials). 29 Table 19: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials). 20 Table 19: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by Week (comparator-controlled trials). 21 Table 20: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 22 Table 20: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-co	Table 3: Weight (kg) - Change from Baseline to Endpoint Fixed-Dose Placebo-Controlled Trials (LOCF)	18
Table 5. Weight (kg) - Change from Baseline to Endpoint by Baseline BMI Category, All Fixed-Dose Placebo-Controlled Trials (LOCF). 15 Table 7. Weight Change (kg) from Baseline to Endpoint By Week, All Fixed-Dose Placebo-Controlled Trials. 26 Table 8. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) placebo-Controlled Trials. 27 Table 10. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) placebo-Controlled Trials (LOCF). 28 Table 10. BMI (kg/m²) - Change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled Trials (LOCF). 29 Table 10. BMI (kg/m²) - Change from Baseline to Endpoint place (EOT) by BMI category (placebo-controlled Trials). 20 Table 10. BMI (kg/m²) - Change from Baseline to Endpoint placebo-Controlled Trials (LOCF). 21 Table 11. BMI (kg/m²) - Change from Baseline to Endpoint placebo-Controlled Trials (LOCF). 21 Table 12. Proportion of Subjects with Weight (nkg) Change at Week of placebo-controlled trials). 22 Table 13. Proportion of Subjects with Weight (nkg) Long at Week of placebo-Controlled Trials (LOCF). 23 Table 13. Proportion of Subjects with Weight (nkg) Long at Week of placebo-Controlled Trials (LOCF). 24 Table 18. Weight increase over time by week (comparator-controlled trials). 25 Table 19. Weight increase over time by week (comparator-controlled trials). 26 Table 18. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials). 27 Table 19. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials). 28 Table 29. Proportion of Palients with Weight (nkg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 29 Table 29. Proportion of Palients with Weight (nkg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 20 Table 29. Weight (nkg) - change from baseline (BL) to end of treatment (EOT) by Weight (nkg) Comparator-controlled trials). 21 Table 29. Weight (nkg) - change from baseline (BL) to end of treatme	Table 4: Weight (in kg) - change from baseline (BL) to end of treatment (FOT) by BMI category (placeho-controlled trials)	18
Table 6. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (short-term placebo-controlled trials). 15 Table 8. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials). 26 Table 9. BMI (kg/m²) - change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled trials). 27 Table 10. BMI (kg/m²) - change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled trials). 28 Table 8. BMI (kg/m²) - change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled trials). 29 Table 11. BMI (kg/m²) - change from Baseline to Endpoint by Baseline BMI Category, All Fixed-Dose Placebo-Controlled Trials (LOCF). 20 Table 11. BMI (kg/m²) - change from Baseline to Endpoint by Baseline BMI Category, All Fixed-Dose Placebo-Controlled Trials (LOCF). 20 Table 12. Proportion of Patients with Weight Change at Week 6 (placebo-controlled trials). 21 Table 13. Proportion of Subjects with Weight Change at Week 6 (placebo-controlled trials). 22 Table 14. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (comparator-controlled trials). 23 Table 15. Weight increase over time by week (comparator-controlled trials). 24 Table 16. Weight increase over time by week (comparator-controlled trials). 25 Table 17. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (comparator-controlled trials). 26 Table 19. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI convention of trials and trials (BL) to end of treatment (EOT) by BMI convention of trials. 26 Table 19. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 27 Table 29. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 28 Table 29. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all OTP trials). 30 Table 29. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all OTP	Table 5: Weight (Ira) Change from Deceling to Englaging DM Category, All Fixed Doca Pleaghe Controlled Trials (LOCE)	10
Table 7: Weight Change (kg) from Baseline to Endpoint By Week, All Fixed-Dose Placebo-Controlled Trials 2		
Table 9. BMI (kg/m²) - Change from baseline (BL) to end of treatment (FOT) (placebo-controlled trials). 20. Table 10. BMI (kg/m²) - Change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled trials). 21. Table 11. BMI (kg/m²) - Change from Baseline to Endpoint by Baseline BMI Category, All Fixed-Dose Placebo-Controlled trials). 22. Table 11. BMI (kg/m²) - Change from Baseline (BL) to end of treatment (EOT) by BMI category (all Fixed-Dose Placebo-Controlled Trials (LOCF). 22. Table 12. Proportion of Patients with Weight Change at Week 6 (placebo-controlled trials). 23. Table 13. Proportion of Subjects with Weight Change (proportion) of Subjects with Weight Change (compared trials). 24. Table 13. Proportion of Subjects with Weight Change (for the Subject) of treatment (EOT) (comparator-controlled trials). 25. Table 16. Weight increase over time by week (comparator-controlled trials). 26. Table 18. Weight increase over time by week (comparator-controlled trials). 27. Table 18. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by week (comparator-controlled trials). 28. Table 19. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by week (comparator-controlled trials). 29. Table 19. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by week (comparator-controlled trials). 20. Table 19. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by week (comparator-controlled trials). 21. Table 19. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by week (comparator-controlled trials). 22. Table 19. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by week (comparator-controlled trials). 23. Table 29. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 34. Table 29. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 35. Table 28. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI categ		
Table 9. BMI (kg/m²) - Change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled Trials (LOCF) 2 Table 11. BMI (kg/m²) - Change from Baseline to Endpoint by Baseline BMI Category, All Fixed-Dose Placebo-Controlled Trials (LOCF) 2 Table 11. BMI (kg/m²). Change from Baseline to Endpoint by Baseline BMI Category, All Fixed-Dose Placebo-Controlled Trials (LOCF) 2 Table 13. BMI (kg/m²). Change from Baseline to Endpoint by Baseline BMI Category, All Fixed-Dose Placebo-Controlled Trials (LOCF) 2 Table 13. Proportion of Subjects with Weight (In Agg Change at Weck 6 (placebo-controlled trials) 2 Table 14. Weight (in Kg) - change from baseline (BL) to end of treatment (EOT) (comparator-controlled trials) 2 Table 15. Weight (in Kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials) 2 Table 16. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (comparator-controlled trials) 2 Table 18. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials) 3 Table 18. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials) 3 Table 20. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials) 3 Table 20. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials) 3 Table 22. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials) 3 Table 23. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all OTP trials) 3 Table 24. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all OTP trials) 3 Table 25. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all OTP trials) 3 Table 25. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all OTP trials) 3 Table 26. Weight		
Table 11: BMI (kg/m²) - change from Baschine to Endopoint by Baschine BMI Category (placebo-controlled trials). 22 Table 12: Proportion of Patients with Weight (in kg) Change at Week 6 (placebo-controlled trials). 23 Table 13: Proportion of Subjects with Weight (in kg) Change at Week 6 (placebo-controlled trials). 24 Table 14: Weight (in kg) - change from baschine (BL) to end of treatment (EOT) (comparator-controlled trials). 25 Table 14: Weight (in kg) - change from baschine (BL) to end of treatment (EOT) by MRI category (comparator-controlled trials). 26 Table 15: Weight increase over time by week (comparator-controlled trials). 27 Table 16: Weight increase over time by week (comparator-controlled trials). 28 Table 17: Weight (in kg) - change from baschine (BL) to end of treatment (EOT) by MRI category (comparator-controlled trials). 29 Table 18: BMI (kg/m²) - change from baschine (BL) to end of treatment (EOT) by MRI category (comparator-controlled trials). 20 Table 19: BMI (kg/m²) - change from baschine (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials). 21 Table 20: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 22 Table 20: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 23 Table 22: Proportion of Patients with Weight (in kg) Change at Week 6 (comparator-controlled trials). 24 Table 23: Proportion of Patients with Weight (in kg) Change at Weeks, 6 and 12 Months (comparator-controlled trials). 35 Table 25: Weight (in kg) - change from baschine (BL) to end of treatment (EOT) pl (In MRI category (all QTP trials). 36 Table 25: Weight (in kg) - change from baschine (BL) to end of treatment (EOT) pl (MRI category (all QTP trials). 37 Table 27: MRI (kg/m²) - change from baschine (BL) to end of treatment (EOT) pl (MRI category (all QTP trials). 38 Table 29: Weight (in kg) - change from baschine (BL) to end of treatment (EOT) pl (MRI category (all	Table 8: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials)	20
Table 11: BMI (kg/m²) - change from Baschine to Endopoint by Baschine BMI Category (placebo-controlled trials). 22 Table 12: Proportion of Patients with Weight (in kg) Change at Week 6 (placebo-controlled trials). 23 Table 13: Proportion of Subjects with Weight (in kg) Change at Week 6 (placebo-controlled trials). 24 Table 14: Weight (in kg) - change from baschine (BL) to end of treatment (EOT) (comparator-controlled trials). 25 Table 14: Weight (in kg) - change from baschine (BL) to end of treatment (EOT) by MRI category (comparator-controlled trials). 26 Table 15: Weight increase over time by week (comparator-controlled trials). 27 Table 16: Weight increase over time by week (comparator-controlled trials). 28 Table 17: Weight (in kg) - change from baschine (BL) to end of treatment (EOT) by MRI category (comparator-controlled trials). 29 Table 18: BMI (kg/m²) - change from baschine (BL) to end of treatment (EOT) by MRI category (comparator-controlled trials). 20 Table 19: BMI (kg/m²) - change from baschine (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials). 21 Table 20: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 22 Table 20: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 23 Table 22: Proportion of Patients with Weight (in kg) Change at Week 6 (comparator-controlled trials). 24 Table 23: Proportion of Patients with Weight (in kg) Change at Weeks, 6 and 12 Months (comparator-controlled trials). 35 Table 25: Weight (in kg) - change from baschine (BL) to end of treatment (EOT) pl (In MRI category (all QTP trials). 36 Table 25: Weight (in kg) - change from baschine (BL) to end of treatment (EOT) pl (MRI category (all QTP trials). 37 Table 27: MRI (kg/m²) - change from baschine (BL) to end of treatment (EOT) pl (MRI category (all QTP trials). 38 Table 29: Weight (in kg) - change from baschine (BL) to end of treatment (EOT) pl (MRI category (all	Table 9: BMI (kg/m²) - Change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled Trials (LOCF)	21
Table 11: BMI (kg/m²). Change from Baseline to Endpoint by Baseline BMI Category, All Fixed-Dose Placebo-Controlled Trials (LOCF). 2: Table 13: Proportion of Subjects with Weight (In kg) Change at Week of (placebo-controlled trials). 2: Table 13: Proportion of Subjects with Weight (Change by Prespecified Weight Change Categories, Fixed-Dose Placebo-Controlled Trials 2: Table 14: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials). 2: Table 15: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by EMI category (comparator-controlled trials). 2: Table 18: MBI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by EMI category (comparator-controlled trials). 2: Table 19: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials). 2: Table 2: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 2: Table 2: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 2: Table 2: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 2: Table 2: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 3: Table 2: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 3: Table 2: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 3: Table 2: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 3: Table 2: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) all QTP trials). 3: Table 2: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) pick Multi (kg/m²) change from baseline (BL) to end of treatment (EOT) pick Multi (kg/m²) change from baseline (BL) to end of treatment (EOT	Table 10: BMI (kg/m²) - change from baseline (BL) to end of treatment (FOT) by BMI category (placeho-controlled trials)	22
Table 12. Proportion of Patients with Weight (in kg) Change at Week 6 (placebo-controlled trials) . 22 Table 14. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (comparator-controlled trials) . 22 Table 14. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by MB ateageny (comparator-controlled trials) . 22 Table 16. Weight increase over time by week (comparator-controlled trials) . 22 Table 16. Weight increase over time by week (comparator-controlled trials) . 22 Table 17. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by Week (comparator-controlled trials) . 22 Table 19. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by Week (comparator-controlled trials) . 22 Table 19. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by Man (actegory) (comparator-controlled trials) . 22 Table 19. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI (actegory) (comparator-controlled trials) . 22 Table 19. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials) . 23 Table 22. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials) . 23 Table 22. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials) . 33 Table 25. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all QTP trials) . 33 Table 25. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials) . 33 Table 27. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials) . 33 Table 27. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials) . 34 Table 29. Proportion of Patients with Weight Change at 6 Weeks, 6 (22 4 and 36 Months (all QTP trials) . 35 Table 23. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all Versub) exclose controlle	Table 11: RMI (kg/m2): Change from Baseline to Endpoint by Baseline RMI Category, All Fived Dose Placeho, Controlled Trials (LOCF)	22
Table 13. Proportion of Subjects with Weight (In B.1) to and of treatment (EOT) to Mompataro-controlled trials). 22. Table 15. Weight (in Kg) - change from baseline (B.1) to end of treatment (EOT) by BMI category (comparator-controlled trials). 23. Table 15. Weight (in kg) - change from baseline (B.1) to end of treatment (EOT) by BMI category (comparator-controlled trials). 24. Table 18. BMI (kg/m²) - change from baseline (B.1) to end of treatment (EOT) by BMI category (comparator-controlled trials). 25. Table 19. BMI (kg/m²) - change from baseline (B.1) to end of treatment (EOT) by BMI category (comparator-controlled trials). 26. Table 19. BMI (kg/m²) - change from baseline (B.1) to end of treatment (EOT) by BMI category (comparator-controlled trials). 27. Table 29. Proportion of Patients with Weight (in kg) Change at 6 Wecks, 6 and 12 Months (comparator-controlled trials). 28. Table 21. Proportion of Patients with Weight (in kg) Change at 6 Wecks, 6 comparator-controlled trials). 29. Table 22. Proportion of Patients with Weight (in kg) Change at 6 Wecks, 6 comparator-controlled trials). 20. Table 23. Proportion of Patients with Weight (in kg) Change at 6 Wecks, 6 comparator-controlled trials). 21. Table 24. Weight (in kg) - change from baseline (B.1) to end of treatment (EOT) by BMI category (all CPI Prials). 30. Table 25. Weight (in kg) - change from baseline (B.1) to end of treatment (EOT) by BMI category (all CPI Prials). 31. Table 28. BMI (kg/m²) - change from baseline (B.1) to end of treatment (EOT) by BMI category (all CPI Prials). 32. Table 28. Weight (in kg) - change from baseline (B.1) to end of treatment (EOT) by BMI category (all CPI Prials). 33. Table 28. Weight (in kg) - change from baseline (B.1) to end of treatment (EOT) to BMI category (nalve subjects, placebo-controlled trials). 34. Table 28. Weight (in kg) - change from baseline (B.1) to end of treatment (EOT) to BMI category (nalve subjects, placebo-controlled trials). 34. Table 39. Weight (in kg) - change from baseline (B.1		
Table 14: Weight (in Kg) - change from baseline (BL) to end of treatment (EOT) to SBM category (comparator-controlled trials). 22 Table 16: Weight increase over time by week (comparator-controlled trials). 23 Table 16: Weight increase over time by week (comparator-controlled trials). 24 Table 17: Weight (in Kg) - change from baseline (BL) to end of treatment (EOT) by week (comparator-controlled trials). 25 Table 18: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by MBI (category (comparator-controlled trials). 26 Table 19: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by MBI (category (comparator-controlled trials). 27 Table 29: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 28 Table 21: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 28 Table 22: Proportion of Patients with Weight (in kg) Change at Week 6 (comparator-controlled trials). 29 Table 23: Proportion of Patients with Weight (in kg) Change at Week 6 (comparator-controlled trials). 30 Table 24: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by MBI (category (all QTP trials). 31 Table 25: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by MBI (category (all QTP trials). 32 Table 27: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by MBI (category (all QTP trials). 33 Table 28: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by MBI (category (all QTP trials). 34 Table 29: Proportion of Patients with Weight (nange at 6 Weeks, 6, 12, 24 and 36 Months (all QTP trials). 35 Table 29: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naive subjects, placebo-controlled trials). 36 Table 29: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (mave subjects, placebo-controlled trials). 37 Table 33: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (mav	Table 12. Proportion of Patients with Weight (in kg) Change at week of pacebo-contioned thats)	23
Table 15. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials). 22. Table 17. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (comparator-controlled trials). 23. Table 18. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (comparator-controlled trials). 24. Table 19. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (comparator-controlled trials). 25. Table 19. PDOPTION of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 26. Table 20. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 27. Table 22. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 28. Table 23. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 28. Table 23. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 38. Table 24. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all OTP trials). 39. Table 27. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) and (17P trials). 30. Table 27. SMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (all OTP trials). 30. Table 27. SMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (all OTP trials). 30. Table 27. SMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (all OTP trials). 31. Table 27. SMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (all OTP trials). 32. Table 29. Proportion of Patients with Weight Change at 6 Weeks, 6, 12, 24 and 36 Months (all OTP trials). 33. Table 28. SMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (anive subjects, placebo-controlled trials). 34. Table 28. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (anive subjects, placebo-controll	Table 13: Proportion of Subjects with Weight Change by Prespectified Weight Change Categories, Fixed-Dose Placebo-Controlled Trials	23
Table 16. Weight increase over time by week (comparator-controlled trials). 22. Table 18. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) to week (comparator-controlled trials). 23. Table 19. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) to pomparator-controlled trials). 24. Table 19. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials). 25. Table 29. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 26. Table 21. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 27. Table 22. Proportion of Patients with Weight (in kg) Change at Week 6 (comparator-controlled trials). 28. Table 22. Proportion of Patients with Weight (in kg) Change at Week 6 (comparator-controlled trials). 28. Table 23. Proportion of Patients with Weight (in kg) Change at Week 6 (comparator-controlled trials). 38. Table 24. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 38. Table 27. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 38. Table 28. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 39. Table 29. Proportion of Patients with Weight Change at 6 Weeks, 6, 61, 22 and a6 Months all QTP trials). 31. Table 29. Proportion of Patients with Weight Change at 6 Weeks, 6, 61, 22 and a6 Months all QTP trials). 32. Table 30. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (anive subjects, placebo-controlled trials). 33. Table 32. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (anive subjects, placebo-controlled trials). 34. Table 33. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (anive subjects, comparator-controlled trials). 35. Table 34. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT	Table 14: Weight (in Kg) - change from baseline (BL) to end of treatment (EOT) (comparator-controlled trials)	24
Table 17-Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (comparator-controlled trials) 22. Table 19- BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials) 23. Table 29- Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials) 24. Table 20- Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials) 25. Table 21- Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials) 26. Table 23- Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials) 27. Table 23- Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials) 38. Table 24- Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all (ITP trials)) 39. Table 25- Weight (in kg) - change from baseline (BL) to end of treatment (EOT) and (ITP trials) 30. Table 27- SMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) and (ITP trials) 30. Table 28- Proportion of Patients with Weight Change at 6 Weeks, 6, 12, 24 and 36 Months (all QTP trials) 31. Table 29- Proportion of Patients with Weight Change at 6 Weeks, 6, 12, 24 and 36 Months (all QTP trials) 32. Table 30- Weight (in kg) - change from baseline (BL) to end of treatment (EOT) and (ITP trials) 33. Table 30- Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (anive subjects, placebo-controlled trials) 34. Table 32- Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (anive subjects, placebo-controlled trials) 35. Table 33- SMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (anive subjects, placebo-controlled trials) 36. Table 33- SMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (anive subjects, placebo-controlled trials) 37. Table 33- SMI (kg/m²) - change	Table 15: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials)	24
Table 19. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) to yBMI category (comparator-controlled trials). 22. Table 20. Proportion of Patients with Weight (in kg) change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 23. Table 22. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 23. Table 22. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 24. Table 23. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 25. Table 23. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 36. Table 24. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all QTP trials). 37. Table 25. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 38. Table 27. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 39. Table 28. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 30. Table 30. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 31. Table 30. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all QTP trials). 32. Table 31. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all QTP trials). 33. Table 31. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all QTP trials). 34. Table 32. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all QTP trials). 35. Table 31. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naive subjects, placebo-controlled trials). 36. Table 32. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naive subjects, placebo-controlled trials). 37. Table 33. BMI (kg/m²) - c	Table 16: Weight increase over time by week (comparator-controlled trials)	25
Table 19. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) to yBMI category (comparator-controlled trials). 22. Table 20. Proportion of Patients with Weight (in kg) change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 23. Table 22. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 23. Table 22. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 24. Table 23. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 25. Table 23. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 36. Table 24. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all QTP trials). 37. Table 25. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 38. Table 27. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 39. Table 28. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 30. Table 30. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 31. Table 30. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all QTP trials). 32. Table 31. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all QTP trials). 33. Table 31. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all QTP trials). 34. Table 32. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all QTP trials). 35. Table 31. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naive subjects, placebo-controlled trials). 36. Table 32. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naive subjects, placebo-controlled trials). 37. Table 33. BMI (kg/m²) - c	Table 17: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (comparator-controlled trials)	26
Table 19. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials) 22. Table 21. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials) 23. Table 22. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials) 23. Table 23. Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials) 34. Table 24. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all QTP trials) 35. Table 25. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials) 36. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) all QTP trials) 37. Table 28. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) all QTP trials) 38. Table 29. Proportion of Patients with Weight Change at 6 Weeks, 6, 12, 24 and 36 Months (all QTP trials) 39. Table 29. Proportion of Patients with Weight Change at 6 Weeks, 6, 12, 24 and 36 Months (all QTP trials) 30. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials) 31. Table 31. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials) 32. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naive subjects, placebo-controlled trials) 33. Table 33. BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naive subjects, placebo-controlled trials) 34. Table 36. Proportion of Patients with Weight Change at Week 6 (naive subjects, placebo-controlled trials) 35. Table 37. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naive subjects, comparator-controlled trials) 36. Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naive subjects, comparator-controlled trials) 37. Table 36. Weight (in kg) - change from baseline (BL) to end of treatment (E	Table 18: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (comparator-controlled trials)	2.7
Table 20: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 22: Proportion of Patients with Weight (in kg) Change at Week 6 (comparator-controlled trials). 23: Table 22: Proportion of Patients with Weight (in kg) Change at Week 6 (comparator-controlled trials). 24: Weight (in kg) - change from baseline (B1) to end of treatment (EOT) (all QTP trials). 36: Table 24: Weight (in kg) - change from baseline (B1) to end of treatment (EOT) by BMI category (all QTP trials). 37: Table 25: Weight (in kg) - change from baseline (B1) to end of treatment (EOT) by BMI category (all QTP trials). 38: Table 26: Weight (in kg) - change from baseline (B1) to end of treatment (EOT) by Week (all QTP trials). 39: Table 28: BMI (kg/m²) - change from baseline (B1) to end of treatment (EOT) by BMI category (all QTP trials). 30: Table 28: BMI (kg/m²) - change from baseline (B1) to end of treatment (EOT) by BMI category (all QTP trials). 31: Table 30: Weight (in kg) - change from baseline (B1) to end of treatment (EOT) by BMI category (all QTP trials). 32: Table 30: Weight (in kg) - change from baseline (B1) to end of treatment (EOT) (all QTP trials). 33: Table 30: Weight (in kg) - change from baseline (B1) to end of treatment (EOT) (all QTP trials). 34: Table 32: Weight (in kg) - change from baseline (B1) to end of treatment (EOT) (all QTP trials). 35: Table 33: BMI (kg/m²) - change from baseline (B1) to end of treatment (EOT) by BMI category (naive subjects, placebo-controlled trials). 36: Table 33: BMI (kg/m²) - change from baseline (B1) to end of treatment (EOT) by BMI category (naive subjects, placebo-controlled trials). 36: Table 34: BMI (kg/m²) - change from baseline (B1) to end of treatment (EOT) (anive subjects, placebo-controlled trials). 37: Table 36: Weight (in kg) - change from baseline (B1) to end of treatment (EOT) (naive subjects, comparator-controlled trials). 38: Table 39: Proportion of Patients with Weight (hange at Week 6 (naive subjects, plac	Table 19: RMI (kg/m²) - change from baseline (RL) to end of treatment (FOT) by RMI (ategory (comparator-controlled trials)	27
Table 21: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 22: Table 23: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 33: Table 24: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all QTP trials). 34: Table 25: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 35: Table 26: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 36: Table 27: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 37: Table 28: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 38: Table 29: Proportion of Patients with Weight (Enage at 6 Weeks, 6, 12, 24 and 36 Months (all QTP trials). 39: Table 30: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 30: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 30: Table 31: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 31: Table 31: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 32: Table 34: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 33: Table 36: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 34: Table 37: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 36: Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (naïve subjects, omparator-controlled trials). 37: Tab		
Table 22: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 33 Table 24: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) to by BMI category (all QTP trials). 34 Table 25: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 35 Table 26: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 36 Table 27: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 37 Table 28: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 38 Table 29: Proportion of Patients with Weight Change at 6 Weeks, 6, 12, 24 and 36 Months (all QTP trials). 39 Table 30: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 30 Table 30: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all QTP trials). 31 Table 31: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (narve subjects, placebo-controlled trials). 32 Table 33: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (all QTP trials). 33 Table 34: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (narve subjects, placebo-controlled trials). 34 Table 34: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (narve subjects, placebo-controlled trials). 35 Table 36: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) to place subjects, comparator-controlled trials). 36 Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) to place subjects, comparator-controlled trials). 37 Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) to place subjects, comparator-controlled trials). 38 Table 49: Weight (in kg) - change from baseline to end of treatment (EOT) to place subjects,		
Table 23: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials). 3d Table 25: Weight (in kg) - change from baseline (B1) to end of treatment (EOT) by BMI category (all QTP trials). 3d Table 26: Weight (in kg) - change from baseline (B1) to end of treatment (EOT) by BMI category (all QTP trials). 3d Table 27: BMI (kg/m²) - change from baseline (B1) to end of treatment (EOT) by BMI category (all QTP trials). 3d Table 28: BMI (kg/m²) - change from baseline (B1) to end of treatment (EOT) by BMI category (all QTP trials). 3d Table 29: Proportion of Patients with Weight Change at 6 Weeks, 6, 12, 24 and 36 Months (all QTP trials). 3d Table 30: Weight (in kg) - change from baseline (B1) to end of treatment (EOT) by BMI category (nalve subjects, placebo-controlled trials). 3d Table 30: Weight (in kg) - change from baseline (B1) to end of treatment (EOT) by BMI category (nalve subjects, placebo-controlled trials). 3d Table 31: Weight (in kg) - change from baseline (B1) to end of treatment (EOT) by BMI category (nalve subjects, placebo-controlled trials). 3d Table 33: BMI (kg/m²) - change from baseline (B1) to end of treatment (EOT) the weight (in kg) - change from baseline (B1) to end of treatment (EOT) the very subjects, placebo-controlled trials). 3d Table 33: Proportion of Patients with Weight Change at Week 6 (naïve subjects, placebo-controlled trials). 3d Table 35: Proportion of Patients with Weight Change at Week 6 (naïve subjects, placebo-controlled trials). 3d Table 36: Weight (in kg) - change from baseline (B1) to end of treatment (EOT) the week (naïve subjects, placebo-controlled trials). 3d Table 37: Weight (in kg) - change from baseline (B1) to end of treatment (EOT) finaïve subjects, comparator-controlled trials). 3d Table 39: BMI (kg/m²) - change from baseline (B1) to end of treatment (EOT) by week (naïve subjects, comparator-controlled trials). 3d Table 40: BMI (kg/m²) - change from baseline (B1) to end of treatment (EOT) by week (naïve	Table 21: Proportion of Patients with weight (in kg) Change at 6 weeks, 6 and 12 Months (comparator-controlled trials)	29
Table 24: Weight (in Kg) - change from baseline (BL) to end of treatment (EOT) (all QTP trials). 33 Table 27: Bull (kg/m²) - change from baseline (BL) to end of treatment (EOT) by week (all QTP trials). 33 Table 28: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by week (all QTP trials). 33 Table 28: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 33 Table 29: Proportion of Patients with Weight Change at 6 Weeks, 6, 12, 24 and 36 Months (all QTP trials). 33 Table 30: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (nalve subject-controlled trials). 34 Table 31: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (nalve subjects, placebo-controlled trials). 35 Table 31: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (nalve subjects, placebo-controlled trials). 36 Table 33: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (nalve subjects, placebo-controlled trials). 36 Table 37: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (nalve subjects, placebo-controlled trials). 37 Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (nalve subjects, placebo-controlled trials). 38 Table 36: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (nalve subjects, placebo-controlled trials). 39 Table 39: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (nalve subjects, comparator-controlled trials). 30 Table 39: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (nalve subjects, comparator-controlled trials). 31 Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by week (nalve subjects, comparator-controlled trials). 32 Table 39: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (nalve subje	Table 22: Proportion of Patients with Weight (in kg) Change at Week 6 (comparator-controlled trials)	29
Table 25: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 31 Table 27: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by Ment (all QTP trials). 32 Table 28: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (all QTP trials). 33 Table 29: Proportion of Patients with Weight Change at 6 Weeks, 6, 12, 24 and 36 Months (all QTP trials). 34 Table 39: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naive subjects, placebo-controlled trials). 35 Table 30: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) to make subjects, placebo-controlled trials). 36 Table 31: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) to make subjects, placebo-controlled trials). 37 Table 33: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) to make subjects, placebo-controlled trials). 38 Table 34: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) to make subjects, placebo-controlled trials). 38 Table 36: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 39 Table 37: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) to make subjects, placebo-controlled trials). 30 Table 37: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials). 31 Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) to make subjects, comparator-controlled trials). 32 Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) to make subjects, comparator-controlled trials). 33 Table 40: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) to make subjects, comparator-controlled trials). 35 Table 41: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, comparator-controlled trials). 36 Table 42: Proportion of Patients with Weight (
Table 26: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (all OTP trials). 31 Table 27: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (all OTP trials). 32 Table 28: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 33 Table 29: Proportion of Patients with Weight Change at 6 Weeks, 6, 12, 24 and 36 Months (all QTP trials). 34 Table 30: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials). 35 Table 31: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 36 Table 32: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 36 Table 33: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 37 Table 38: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 38 Table 36: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 39 Table 37: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 30 Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 31 Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 31 Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials). 32 Table 30: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials). 33 Table 40: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects,		
Table 26: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (all OTP trials). 31 Table 27: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (all OTP trials). 32 Table 28: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 33 Table 29: Proportion of Patients with Weight Change at 6 Weeks, 6, 12, 24 and 36 Months (all QTP trials). 34 Table 30: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials). 35 Table 31: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 36 Table 32: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 36 Table 33: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 37 Table 38: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 38 Table 36: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 39 Table 37: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 30 Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 31 Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 31 Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials). 32 Table 30: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials). 33 Table 40: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects,	Table 25: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all OTP trials)	30
Table 27: BMÎ (kg/m²) - change from baseline (BL) to end of treatment (EOT) (all (QTP trials). 31 Table 28: BMÎ (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all (QTP trials). 32 Table 29: Proportion of Patients with Weight Change at 6 Weeks, 6, 12, 24 and 36 Months (all QTP trials). 33 Table 30: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) to MBM category (naive subjects, placebo-controlled trials). 34 Table 31: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) to MBM category (naive subjects, placebo-controlled trials). 35 Table 32: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) to MBM category (naive subjects, placebo-controlled trials). 36 Table 33: BMÎ (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naive subjects, placebo-controlled trials). 37 Table 35: Proportion of Patients with Weight (hange at Week 6 (naive subjects, placebo-controlled trials). 38 Table 36: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naive subjects, placebo-controlled trials). 39 Table 37: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) to maive subjects, comparator-controlled trials). 30 Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by maive subjects, comparator-controlled trials). 31 Table 40: BMÎ (kg/m²) - change from baseline (BL) to end of treatment (EOT) to maive subjects, comparator-controlled trials). 32 Table 40: BMÎ (kg/m²) - change from baseline (BL) to end of treatment (EOT) by maive subjects, comparator-controlled trials). 33 Table 40: BMÎ (kg/m²) - change from baseline (BL) to end of treatment (EOT) to maive subjects, comparator-controlled trials). 34 Table 41: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naive subjects, comparator-controlled trials). 35 Table 42: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naive sub		
Table 28: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials). 31. Table 30: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials). 32. Table 31: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials). 33. Table 32: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials). 34. Table 33: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials). 35. Table 34: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials). 36. Table 35: Proportion of Patients with Weight Change at Week 6 (naïve subjects, placebo-controlled trials). 37. Table 36: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 38. Table 37: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 39. Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by week (naïve subjects, comparator-controlled trials). 30. Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (naïve subjects, comparator-controlled trials). 30. Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by week (naïve subjects, comparator-controlled trials). 31. Table 40: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials). 32. Table 41: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, comparator-controlled trials). 33. Table 42: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, all QTP trials). 43. Table 44: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (
Table 29: Proportion of Patients with Weight Change at 6 Weeks, 6, 12, 24 and 36 Months (all QTP trials) 32. Table 31: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (natve subjects, placebo-controlled trials) 33. Table 31: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials) 34. Table 32: Weight (in kg) - change from baseline (BL) to end of treatment by week (naïve subjects, placebo-controlled trials) 35. Table 33: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials) 36. Table 34: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials) 37. Table 35: Proportion of Patients with Weight (Change at Week 6 (naïve subjects, placebo-controlled trials) 38. Table 36: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials) 39. Table 37: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by ack (naïve subjects, comparator-controlled trials) 30. Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by ack (naïve subjects, comparator-controlled trials) 30. Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by ack (naïve subjects, comparator-controlled trials) 31. Table 40: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials) 32. Table 41: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, clanzapine-controlled trials) 33. Table 42: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, all QTP trials) 34. Table 45: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials) 45. Table 46: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (naïve subjects,	Table 29: PMI (kg/m²) change from baseline (BL) to and of treatment (EOT) (lin VII trials)	31
Table 30: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) hy BMI category (naïve subjects, placebo-controlled trials). Table 31: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). Table 32: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials). Table 33: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials). Table 35: Proportion of Patients with Weight Change at Week 6 (naïve subjects, placebo-controlled trials). Table 36: Weight (in Kg) - change from baseline (BL) to end of treatment (EOT) (païve subjects, comparator-controlled trials). Table 37: Weight (in kg) - change from baseline to end of treatment (EOT) by week (naïve subjects, comparator-controlled trials). Table 37: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (naïve subjects, comparator-controlled trials). Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials). Table 40: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials). Table 41: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, comparator-controlled trials). Table 42: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, niparator-controlled trials). Table 43: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials). 40: Table 44: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials). 41: Table 43: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (naïve subjects, all QTP trials). 42: Table 43: Proportion of Patients with Weight (in kg) Change at 6		
Table 31: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 32 Table 32: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials). 33 Table 33: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 33 Table 35: Poportion of Patients with Weight Change at Week 6 (naïve subjects by Calebo-controlled trials). 33 Table 35: Veight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 34 Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 35 Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 36 Table 48: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 37 Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 38 Table 41: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, comparator-controlled trials). 38 Table 42: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, controlled trials). 39 Table 43: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials). 40 Table 44: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials). 41 Table 45: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials). 42 Table 43: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials). 43 Table 44: Weight (in kg) - change from baseline (BL) to end of treatm	Table 29: Proportion of Patients with Weight Change at 6 Weeks, 6, 12, 24 and 36 Months (all QTP thats)	32
Table 32: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials). 3a Table 33: BMI (kg/m³) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 3a Table 34: BMI (kg/m³) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 3a Table 35: Proportion of Patients with Weight (Tange at Week 6 (naïve subjects, placebo-controlled trials). 3a Table 37: Weight (in kg) - change from baseline to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 3a Table 37: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 3a Table 37: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 3a Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 3a Table 40: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, conparator-controlled trials). 3a Table 42: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, conparator-controlled trials). 3a Table 43: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials). 4d Table 44: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials). 4d Table 44: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials). 4d Table 44: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials). 4d Table 49: Fasting Glucose (mg/dl) change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials). 4d Table 49: Fasting Glucose (mg/dl) change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials). 4d Table 4		
Table 33: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials)		
Table 34: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 32 Table 35: Proportion of Patients with Weight Change at Week 6 (naïve subjects, placebo-controlled trials). 33 Table 36: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 34 Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (naïve subjects, comparator-controlled trials). 35 Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 36 Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials). 37 Table 41: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, comparator-controlled trials). 38 Table 42: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, risperidone-controlled trials). 38 Table 43: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials). 40 Table 44: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials). 41 Table 46: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials). 42 Table 47: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials). 43 Table 47: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials). 44 Table 48: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, all QTP trials). 45 Table 47: Fasting Glucose (mg/dl) change from Baseline to Endpoint, Placebo-Controlled trials). 46 Table 50: Fasting Glucose (mg/dl) change from Baseline to Endpoint, Placebo-Controlled trials). 47 Table 57: Fasting		
Table 34: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials). 32 Table 35: Proportion of Patients with Weight Change at Week 6 (naïve subjects, placebo-controlled trials). 33 Table 36: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 34 Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (naïve subjects, comparator-controlled trials). 35 Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 36 Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials). 37 Table 41: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, comparator-controlled trials). 38 Table 42: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, risperidone-controlled trials). 38 Table 43: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials). 40 Table 44: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials). 41 Table 46: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials). 42 Table 47: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials). 43 Table 47: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials). 44 Table 48: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, all QTP trials). 45 Table 47: Fasting Glucose (mg/dl) change from Baseline to Endpoint, Placebo-Controlled trials). 46 Table 50: Fasting Glucose (mg/dl) change from Baseline to Endpoint, Placebo-Controlled trials). 47 Table 57: Fasting	Table 33: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials)	34
Table 35: Proportion of Patients with Weight (in Kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials)		
Table 36: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials)		
Table 37: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (naïve subjects, comparator-controlled trials). 33: Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials). 33: Table 40: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials). 33: Table 41: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, comparator-controlled trials). 33: Table 42: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, risperidone-controlled trials). 33: Table 43: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials). 44: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials). 45: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (naïve subjects, all QTP trials). 46: Table 45: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (naïve subjects, all QTP trials). 47: Table 47: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials). 48: Table 48: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, all QTP trials). 49: Table 49: Fasting Glucose (mg/dl) change from baseline to Endpoint, Placebo-Controlled trials). 40: Table 49: Fasting Glucose (mg/dl) change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials). 41: Table 51: Fasting Glucose (mg/dl). Change from baseline (BL) to end of treatment (EOT), by week (placebo-Controlled Trials). 42: Table 52: Fasting Glucose (mg/dl). Change from baseline (BL) to end of treatment (EOT), by week (placebo-controlled trials). 43: Table 53: Fasting Glucose (mg/dl) change from baseline (BL) to end of treatment (EOT), by week (placebo-controlled trials). 44: Table 55: Fas		
Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naive subjects, comparator-controlled trials). 37: Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naive subjects, comparator-controlled trials). 38: Table 40: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials). 38: Table 41: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, comparator-controlled trials). 39: Table 42: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, siperidone-controlled trials). 30: Table 43: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials). 40: Table 44: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials). 41: Table 46: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials). 42: Table 47: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials). 43: Table 48: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, all QTP trials). 44: Table 49: Fasting Glucose (mg/dl) change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials). 45: Table 49: Fasting Glucose (mg/dl), Change from baseline to Endpoint, Placebo-Controlled Trials. 46: Table 50: Fasting Glucose (mg/dl), Change from baseline (BL) to highest mean glucose change, by week (placebo-controlled trials). 47: Table 52: Fasting Glucose (mg/dl) change from baseline (BL) to highest mean glucose change, by week (placebo-controlled trials). 48: Table 53: Fasting Glucose (mg/dl) change from normal baseline (BL) to highest mean glucose change, by week (placebo-controlled trials). 48: Table 55: Fasting Glucose (mg/dl) change from normal baseline (BL) to end of treatment (EOT), by week (placebo-control		
Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials) Table 40: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials) Table 41: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, olanzapine-controlled trials) Table 42: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, olanzapine-controlled trials) Table 43: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials) 44: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials) 44: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials) 45: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials) 46: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials) 47: Table 48: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, all QTP trials) 48: Table 49: Fasting Glucose (mg/dl) change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials) 49: Fasting Glucose (mg/dl), Change from Baseline to Endpoint, Placebo-Controlled Trials 40: Table 50: Fasting Glucose (mg/dl), Change from Baseline to Endpoint, Placebo-Controlled Trials 41: Table 51: Fasting Glucose (mg/dl) change from baseline (BL) to end of treatment (EOT), by week (placebo-controlled trials) 42: Table 52: Fasting Glucose (mg/dl), Change from Baseline (BL) to end of treatment (EOT), by week (placebo-controlled trials) 43: Table 53: Fasting Glucose (mg/dl) change from hormal baseline (BL) to end of treatment (EOT), by week (placebo-controlled trials) 44: Table 56: Fasting Glucose (mg/dl) change from normal baseline (BL) to end of treatment (EOT), by week (placebo-controlled tri		
Table 40: BMI (kg/m2) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials)		
Table 41: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, olanzapine-controlled trials) 35 Table 42: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, risperiodnoe-controlled trials) 36 Table 43: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials) 47 Table 44: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials) 48 Table 45: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (naïve subjects, all QTP trials) 49 Table 46: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials) 40 Table 47: BMI (kg/m²) - change from baseline to end of treatment (EOT) (naïve subjects, all QTP trials) 41 Table 48: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, all QTP trials) 42 Table 49: Fasting Glucose (mg/dl) change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials) 43 Table 50: Fasting Glucose (mg/dl) change from Baseline to Endpoint, Placebo-Controlled Trials 44 Table 51: Fasting Glucose (mg/dl) change from baseline (BL) to end of treatment (EOT), by week (placebo-controlled trials) 45 Table 52: Fasting Glucose (mg/dl) change from baseline (BL) to end of treatment (EOT), by week (placebo-controlled trials) 46 Table 53: Fasting Glucose (mg/dl) change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials) 47 Table 54: Fasting Glucose (mg/dl), Change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials) 48 Table 55: Fasting Glucose (mg/dl), Change from Normal Baseline to Endpoint, Placebo-Controlled Trials 49 Table 56: Fasting Glucose (mg/dl), Change from Normal Baseline (BL) to end of treatment (EOT) (placebo-controlled trials) 40 Table 57: Fasting Glucose (mg/dl) at normal baseline (BL) to end of treatment (EOT), by week (placebo-control		
Table 42: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, risperidone-controlled trials)	Table 40: BMI (kg/m2) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials).	38
Table 42: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, risperidone-controlled trials)	Table 41: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, olanzapine-controlled trials)	39
Table 43: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials)	Table 42: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, risperidone-controlled trials)	39
Table 44: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials)		
Table 45: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (naïve subjects, all QTP trials)		
Table 46: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials)	Table 45: Weight (in kg) - change from begeling (PL) to end of treatment (EOT) by week (new subjects all OTD trials)	41
Table 47: BMI (kg/m²) - change from baseline to end of treatment by BMI category (naïve subjects, all QTP trials)		
Table 48: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, all QTP trials)	Table 46: BMI (kg/m²) - change from baseline (BL) to end of treatment (EO1) (naive subjects, all Q1P trials)	41
Table 49: Fasting Glucose (mg/dL), Change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials)	Table 4/: BMI (kg/m²) - change from baseline to end of treatment by BMI category (naïve subjects, all Q1P trials)	41
Table 50: Fasting Glucose (mg/dL), Change from Baseline to Endpoint, Placebo-Controlled Trials		
Table 51: Fasting Glucose (mg/dl) change from baseline (BL) to end of treatment (EOT), by week (placebo-controlled trials)	Table 49: Fasting Glucose (mg/dl) change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials)	43
Table 51: Fasting Glucose (mg/dl) change from baseline (BL) to end of treatment (EOT), by week (placebo-controlled trials)	Table 50: Fasting Glucose (mg/dL), Change from Baseline to Endpoint, Placebo-Controlled Trials	44
Table 52: Fasting Glucose (mg/dL): Change from Baseline to Endpoint By Week, All Fixed-Dose Placebo-Controlled Trials		
Table 53: Fasting Glucose (mg/dl) change from baseline (BL) to highest mean glucose change, by week (placebo-controlled trials)		
Table 54: Fasting Glucose (mg/dL), Change from normal baseline (BL) to end of treatment (EOT) (placebo-controlled trials)		
Table 55: Fasting Glucose (mg/dL), Change from Normal Baseline to Endpoint, Placebo-Controlled Trials		
Table 56: Fasting Glucose (mg/dl) at normal baseline (BL) to end of treatment (EOT), by week (placebo-controlled trials)		
Table 57: Fasting Glucose (mg/dl) at normal baseline (BL) to highest mean glucose change, by week (placebo-controlled trials)		
Table 58: Fasting Glucose (mg/dl) change from high baseline (BL) to end of treatment (EOT) (placebo-controlled trials)		
Table 59: Fasting Glucose change from high baseline (BL) to end of treatment (EOT), by week (placebo-controlled trials)		
Table 59: Fasting Glucose change from high baseline (BL) to end of treatment (EOT), by week (placebo-controlled trials)	Table 58: Fasting Glucose (mg/dl) change from high baseline (BL) to end of treatment (EOT) (placebo-controlled trials)	48
Table 60: Fasting Glucose (mg/dl) at high baseline (BL) to highest mean glucose change, by week (placebo-controlled trials)		
Table 61: Fasting Glucose (mg/dl) change from impaired fasting glucose at baseline (BL) to end of treatment (EOT) (placebo-controlled trials) 50 Table 62: Fasting Glucose (mg/dL), Change from Impaired Baseline to Endpoint, Placebo-Controlled Trials 50 Table 63: Fasting Glucose change from impaired fasting glucose at baseline to end of treatment, by week (placebo-controlled trials) 50 Table 64: Fasting Glucose from impaired fasting glucose at baseline (BL) to highest mean glucose change, by week (placebo-controlled trials) 51 Table 65: Proportion of Patients with treatment emergent fasting Glucose (mg/dL) change (placebo-controlled trials) 52 Table 66: Shifts in Fasting Glucose (mg/dL), All Fixed-Dose Placebo-Controlled Trials 52		
Table 62: Fasting Glucose (mg/dL), Change from Impaired Baseline to Endpoint, Placebo-Controlled Trials		
Table 63: Fasting Glucose change from impaired fasting glucose at baseline to end of treatment, by week (placebo-controlled trials)		
Table 64: Fasting Glucose from impaired fasting glucose at baseline (BL) to highest mean glucose change, by week (placebo-controlled trials). 51 Table 65: Proportion of Patients with treatment emergent fasting Glucose (mg/dL) change (placebo-controlled trials)		
Table 65: Proportion of Patients with treatment emergent fasting Glucose (mg/dL) change (placebo-controlled trials)		
Table 66: Shifts in Fasting Glucose (mg/dL), All Fixed-Dose Placebo-Controlled Trials		
Table 67: Proportion of Patients with treatment emergent increase (>10 mg/dL) in fasting glucose (placebo-controlled trials)		
	Table 67: Proportion of Patients with treatment emergent increase (>10 mg/dL) in fasting glucose (placebo-controlled trials)	52

Table 68: Proportion of Patients with treatment emergent fasting HbA1c (%) increase (placebo-controlled trials)	
Table 69: HbA1c, Shifts from Baseline, All Fixed Dose Trials	53
Table 70: Proportion of Patients with treatment emergent glycosuria (placebo-controlled trials)	54
Table 71: Glycosuria, All Fixed Dose Trials	54
Table 72: Mean glucose (mg/dl) change from baseline (BL) to end of treatment (EOT) (comparator-controlled trials)	54
Table 73: Mean glucose (mg/dl) change from 'normal' baseline (BL) to end of treatment (EOT) (comparator-controlled trials)	
Table 74: Mean glucose (mg/dl) change from 'impaired' baseline (BL) to end of treatment (EOT) (comparator-controlled trials)	
Table 75: Mean glucose (mg/dl) change from 'high' baseline (BL) to end of treatment (EOT) (comparator-controlled trials)	
Table 76: Mean glucose (mg/dl) change from baseline (BL) to end of treatment (EOT), by week (comparator-controlled trials)	
Table 77: Highest mean glucose change from baseline (BL), by week (comparator trials)	57
Table 78: Mean glucose (mg/dl) change from 'normal' baseline (BL) to end of treatment (EOT), by week (comparator-controlled trials)	
Table 79: Highest mean glucose change from 'normal' baseline (BL), by week (comparator-controlled trials)	58
Table 80: Mean glucose change from 'impaired' baseline (BL) to end of treatment (EOT), by week (comparator-controlled trials)	59
Table 81: Highest mean glucose change from 'impaired' baseline (BL), by week (comparator-controlled trials)	
Table 82: Proportion of Patients with treatment emergent fasting glucose (mg/dL) change (comparator-controlled trials)	60
Table 83: Proportion of Patients with treatment emergent increase in fasting glucose (>10 mg/dL) (comparator-controlled trials)	61
Table 84: Proportion of Patients with treatment emergent fasting HbA1c (%) increase (comparator-controlled trials)	62
Table 85: Proportion of Patients with treatment emergent glycosuria (comparator-controlled trials)	62
Table 86: Proportion of Patients with treatment emergent glycosuria (haloperidol-controlled trials)	63
Table 87: Mean glucose change (in mg/dl) from baseline (BL) to end of treatment (EOT) (all QTP trials)	
Table 88: Mean glucose change (in mg/dl) from 'normal' baseline (BL) to end of treatment (EOT) (all QTP trials)	63
Table 89:Mean glucose change from' impaired' fasting glucose at baseline (BL) to end of treatment (EOT) (all QTP trials)	64
Table 90: Mean glucose change (in mg/dl) from 'high' baseline (BL) to end of treatment (EOT) (all QTP trials)	64
Table 91: Mean glucose change (in mg/dl) from baseline (BL) to end of treatment (EOT), by week (all QTP trials)	64
Table 92: Highest mean glucose change (in mg/dl) from baseline (BL), by week (all QTP trials)	65
Table 93: Mean glucose change (in mg/dl) from 'normal' baseline (BL) to end of treatment (EOT), by week (all quetiapine trials)	65
Table 94: Highest mean glucose change (in mg/dl) from 'normal' baseline (BL), by week (all QTP trials)	65
Table 95: Mean glucose change (in mg/dl) from 'impaired' baseline (BL) to end of treatment (EOT), by week (all QTP trials)	66
Table 96: Highest mean glucose change (in mg/dl) from 'impaired' baseline (BL), by week (all QTP trials)	66
Table 97: Mean glucose change (in mg/dl) from 'high' baseline (BL) to end of treatment (EOT), by week (all QTP trials)	66
Table 98: Highest mean glucose change (in mg/dl) from 'high' baseline (BL), by week (all QTP trials)	
Table 99: Proportion of Patients with treatment emergent fasting glucose change (in mg/dL) (all QTP trials)	67
Table 100: Proportion of Patients with treatment emergent increase (>10 mg/dL) in fasting glucose (all QTP trials)	67
Table 101: Proportion of Patients with treatment emergent fasting HbA1c (%) increase (all QTP trials)	67
Table 102: Proportion of Patients with treatment emergent glycosuria (all QTP trials)	
Table 103: Mean glucose change (mg/dl) from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials)	
Table 104: Mean glucose change (mg/dl) from 'normal' baseline to end of treatment (EOT) (naïve subjects, placebo-controlled trials)	68
Table 105: Mean glucose change from' Impaired' baseline to end of treatment (naïve subjects, placebo-controlled trials)	
Table 106: Mean glucose change (mg/dl) from 'high' baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials)	69
Table 107: Mean glucose change from baseline (BL) to end of treatment (EOT), by week (naïve subjects, placebo-controlled trials)	
Table 108: Highest mean glucose change (in mg/dl) at baseline (BL), by week (naïve subjects, placebo-controlled trials)	
Table 109: Mean glucose change from 'normal' baseline (BL) to end of treatment, by week (naïve subjects, placebo-controlled trials)	
Table 110: Highest mean glucose change (in mg/dl) at 'normal' baseline (BL), by week (naïve subjects, placebo-controlled trials)	
Table 111: Mean glucose change from 'impaired' baseline (BL) to end of treatment, by week (naïve subjects, placebo-controlled trials)	
Table 112: Highest mean glucose change (in mg/dl) at 'impaired' baseline (BL), by week (naïve subjects, placebo-controlled trials)	
Table 113: Mean glucose change from 'high' baseline (BL) to end of treatment, by week (naïve subjects, placebo-controlled trials)	
Table 114: Highest mean glucose change (in mg/dl) at 'high' baseline (BL), by week (naïve subjects, placebo-controlled trials)	73
Table 115: Proportion of Patients with treatment emergent fasting glucose change (mg/dL) (naïve subjects, placebo-controlled trials)	
Table 116: Proportion of Patients with treatment emergent increase in glucose (>10 mg/dL) (naïve subjects, placebo-controlled trials)	
Table 117: Proportion of Patients with treatment emergent fasting HbA1c (%) increase (naïve subjects, placebo-controlled trials)	
Table 118: Proportion of Patients with treatment emergent glycosuria (naïve subjects, placebo-controlled trials)	
Table 119: Mean glucose change (in mg/dl) from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials)	
Table 120: Mean glucose change from 'normal' baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials)	
Table 121: Proportion of Patient with treatment emergent increase in fasting glucose >10 mg/dL (naïve subjects, comparator-controlled trials)	
Table 122: Proportion of Patients with treatment emergent fasting HbA1c (%) increase (naïve subjects, comparator-controlled trials)	
Table 123: Proportion of Patients with treatment emergent glycosuria (naïve subjects, comparator-controlled trials)	
Table 124: Mean glucose change (mg/dl) from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials)	
Table 125: Mean glucose change (mg/dl) from 'normal' baseline to end of treatment (naïve subjects, all QTP trials)	
Table 126: Mean glucose change from 'impaired' baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials)	79
Table 127: Mean glucose change (mg/dl) from 'high' baseline to end of treatment (naïve subjects, all QTP trials)	
Table 128:Mean glucose change (mg/dl) from baseline to end of treatment, by week (naïve subjects, all QTP trials)	
Table 129: Highest mean glucose change (mg/dl) from baseline, by week (naïve subjects, all QTP trials)	
Table 130: Mean glucose change from 'normal' baseline to end of treatment, by week (naïve subjects, all QTP trials)	
Table 131: Highest mean glucose change (mg/dl) from 'normal' baseline, by week (naïve subjects, all QTP trials)	
Table 132: Mean glucose change from 'impaired' baseline to end of treatment, by week (naïve subjects, all QTP trials)	
Table 133: Highest mean glucose change (mg/dl) from 'impaired' baseline, by week (naïve subjects, all QTP trials)	
Table 134: Mean glucose change from 'high' baseline to end of treatment, by week (naïve subjects, all QTP trials)	
Table 135: Highest mean glucose change (mg/dl) from 'high' baseline, by week (naïve subjects, all QTP trials)	
Table 136: Proportion of Patients with treatment emergent fasting glucose change (mg/dL) (naïve subjects, all QTP trials)	
Table 137: Proportion of Patients with treatment emergent increase in glucose (>10 mg/dL) (naïve subjects, all QTP trials)	82

Table 138: Proportion of Patients with treatment emergent fasting HbA1c (%) increase (naïve subjects, all QTP trials)	82
Table 139: Proportion of Patients with treatment emergent glycosuria (naïve subjects, all QTP trials)	83
Table 140: Lipids, change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials)	83
Table 141: Lipids, Change from Baseline to Endpoint, All Fixed-Dose Placebo-Controlled Trials	84
Table 142: Lipids, Change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled "Schizophrenia" Trials	85
Table 143: Lipids, Change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled "Bipolar" Trials	85
Table 144: Lipids, Change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled "GAD" Trials	86
Table 145: Lipids, Change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled "MDD" Trials	86
Table 146: Lipids, Change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled "GAD and MDD" Trials	
Table 147: Treatment-Emergent Significant Changes in Lipids	88
Table 148: Treatment-Emergent Significant Changes in Lipids: Additional Analyses	88
Table 149: Proportion of Patients with treatment emergent shifts of total cholesterol (placebo-controlled trials)	
Table 150: Proportion of Patients with treatment emergent shifts of total cholesterol > 40 mg/dl increase (placebo-controlled trials).	89
Table 151: Proportion of Patients with treatment emergent shifts of total HDL (placebo-controlled trials)	90
Table 152: Proportion of Patients with treatment emergent shifts of total HDL > 20 mg/dL decrease (placebo-controlled trials)	90
Table 153: Proportion of Patients with treatment emergent shifts of fasting LDL (placebo-controlled trials)	90
Table 154: Proportion of Patients with treatment emergent shifts of fasting LDL > 30 mg/dL increase (placebo-controlled trials)	91
Table 155: Proportion of Patients with treatment emergent shifts of fasting triglycerides (placebo-controlled trials)	91
Table 156: Proportion of Patients with treatment emergent shifts of fasting triglycerides > 50 mg/dL increase (placebo-controlled tri	.als)92
Table 157: Shifts in Lipids, All Fixed-Dose Placebo-Controlled Trials	92
Table 158: Lipids, change from baseline (BL) to end of treatment (EOT) (comparator-controlled trials)	94
Table 159: lipids, change from baseline (BL) to end of treatment (EOT), exposure at > 12 and > 24 weeks (comparator-controlled t	
Table 160: Proportion of Patients with treatment emergent shifts in cholesterol (risperidone-controlled trials)	96
Table 161: Proportion of Patients with treatment emergent shifts of total cholesterol at >12 weeks (risperidone-controlled trials)	
Table 162: Proportion of Patients with treatment emergent shifts of total cholesterol at >24 weeks (risperidone-controlled trials)	
Table 163: Proportion of Patients with treatment emergent shifts of total cholesterol > 40 mg/dl increase (Risperidone-controlled trial to 10.4 Page 11.4 Page 12.4 Page 12.4 Page 12.4 Page 12.4 Page 13.4 Pa	als)96
Table 164: Proportion of Patients with treatment emergent shifts of total cholesterol > 40 mg/dl increase (Risperidone-controlled trial to 165 kinds of the controlled trial to 165 kinds of the con	
Table 165: Lipids, change from baseline (BL) to end of treatment (EOT) (All QTP trials)	9/
Table 160: Lipids, change from baseline (BL) to end of treatment (EO1), exposure > 12 and > 24 weeks (All Q1P thats)	98
Table 167: Proportion of Patients with treatment emergent shifts of total cholesterol (All QTP trials)	99
Table 169: Proportion of Patients with treatment emergent shifts of total cholesterol > 40 mg/dl increase and by time (All QTP trials)	99
Table 170: Proportion of Patients with treatment emergent shifts of total HDL (All QTP trials)	
Table 171: Proportion of Patients with treatment emergent shifts of total HDL > 20 mg/dL decrease (All QTP trials)	100
Table 172: Proportion of Patients with treatment emergent shifts of fasting LDL (All QTP trials)	101
Table 173: Proportion of Patients with treatment emergent shifts of fasting LDL > 30 mg/dL increase (All QTP trials)	102
Table 174: Proportion of Patients with treatment emergent shifts of fasting triglycerides (All QTP trials)	102
Table 175: Proportion of Patients with treatment emergent shifts of fasting triglycerides > 50 mg/dL increase (All QTP trials)	
Table 176: Proportion of Patients with treatment emergent shifts of very high fasting triglycerides (All QTP trials)	
Table 177: Lipids, change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials)	
Table 178: Proportion of Patients with treatment emergent shifts of total cholesterol (naïve subjects, placebo-controlled trials)	105
Table 179: Proportion of Patients with treatment emergent shifts of total cholesterol (naïve subjects, placebo-controlled trials)	
Table 180: Proportion of Patients with treatment emergent shifts of total HDL (naïve subjects, placebo-controlled trials)	
Table 181:Proportion of Patients with treatment emergent shifts of total HDL > 20 mg/dL decrease (naïve subjects, placebo-controll	
Table 182: Proportion of Patients with treatment emergent shifts of fasting LDL (naïve subjects, placebo-controlled trials)	107
Table 183: Proportion of Patients with treatment emergent shifts fasting LDL > 30 mg/dL increase (naïve subjects, placebo-controll	
Table 184: Proportion of Patients with treatment emergent shifts of fasting triglycerides (naïve subjects, placebo-controlled trials)	108
Table 185: Proportion of Patients, treatment emergent shifts triglycerides > 50 mg/dL increase (naïve subjects, placebo-controlled	
Table 186: Proportion of Patients with treatment emergent shifts of very high fasting triglycerides (naïve subjects, placebo-controlle	
Table 187: Lipids, change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials)	
Table 188:Lipids, change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials)	
Table 189: Lipids, change from baseline (BL) to end of treatment (EOT), exposure > 12 and > 24 weeks (naïve subjects, all QTP tr	ials)112
Table 190: Proportion of Patients with treatment emergent shifts of total cholesterol (naïve subjects, All QTP trials)	
Table 191: Proportion of Patients with treatment emergent shifts of total cholesterol by time (naïve subjects, all QTP trials)	113
Table 192:Proportion of Patient, treatment emergent shifts of total cholesterol > 40 mg/dl increase and by time (naïve subjects, all C	TP trials) 113
Table 193: Proportion of Patients with treatment emergent shifts of total HDL(naïve subjects, all QTP trials)	114
Table 194: Proportion of Patients with treatment emergent shifts of total HDL > 20 mg/dL decrease (naïve subjects, all QTP trials).	
Table 195: Proportion of Patients with treatment emergent shifts of fasting LDL (naïve subjects, all QTP trials)	
Table 196: Proportion of Patients with treatment emergent shifts of fasting LDL > 30 mg/dL increase (naïve subjects, all QTP trials	
Table 197: Proportion of Patients with treatment emergent shifts of fasting (naïve subjects, all QTP trials)	
Table 198: Proportion of Patients with treatment emergent shifts of fasting triglycerides > 50 mg/dL increase (naïve subjects, all QT	
Table 199: Proportion of Patients with treatment emergent shifts of very high fasting triglycerides (naïve subjects, all QTP trials)	
Table 200: Baseline demographics (adult subjects, placebo-controlled trials)	
Table 201: Baseline demographics (adult subjects, chlorpromazine-controlled trials)	
Table 202: Baseline demographics (adult subjects, haloperidol-controlled trials)	120
Table 203: Baseline demographics (adult subjects, olanzapine-controlled trials)	
Table 204: Baseline demographics (adult subjects, risperidone-controlled trials)	
Table 205: Baseline demographics (adult subjects, quetiapine-treated, all trials)	
Table 206: Baseline demographics (naïve subjects, placebo-controlled trials)	
Table 207: Baseline demographics (naïve subjects, olanzapine-controlled trials)	125

Table 208: Baseline demographics (naïve subjects, risperidone-controlled trials)	12
Table 209: Baseline demographics (naïve subjects, quetiapine-treated, all trials)	12′
Table 210:List of Metabolic clinical trials.	12

1 Executive Summary Section

1.1 Recommendation on Regulatory Action

In response to a request from the Division of Psychiatry Products, the Sponsor submitted data for the effect of quetiapine on several metabolic parameters for adult and pediatric/adolescent subjects in their clinical trials database. The adult data is contained in this review and the pediatric/adolescent review is in progress. Recommendations on regulatory action will be made when all reviews have been completed. Though the Sponsor has submitted a Changes Being Effected labeling supplement that has incorporated some of the pediatric/adolescent metabolic data, it is likely that further changes to product labeling will be recommended based on these reviews. These metabolic data from adults will be presented at the Psychopharmacological Drugs Advisory Committee meeting scheduled for April 8, 2009.

1.2 Recommendation on Postmarketing Actions

No recommendations at this time.

1.3 Summary of Clinical Findings

Weight

Placebo-Controlled Trials

In the clinical trials database, quetiapine was associated with significant weight gain. In the placebo-controlled trials, subjects receiving quetiapine (modal dose = 347 mg, median exposure 43 days) gained 1.2 (SD 3.5) kg compared to 0.2 (SD 3.3) kg in the placebo group.

An analysis of the fixed-dose placebo-controlled trials showed that quetiapine 50 mg/day was not associated with weight gain that was different from placebo (0.8 kg vs. 0.2 kg), but that all other doses were associated with statistically significant weight gain though not strongly linearly related to dose over the range of 150 to 800 mg/day.

	QTP 50 mg	QTP 150 mg	QTP 300 mg	QTP 400 mg	QTP 600 mg	QTP 800 mg	Placebo
All Trials							
N	656	1286	1915	340	1182	451	2319
Mean (SD) Change	0.8 (2.2)	1.0 (2.5)	1.1 (2.9)	1.1 (2.8)	1.4 (4.4)	1.2 (5.0)	0.2 (3.4)
p-value (vs. placebo)	NS	< 0.001	< 0.001	0.004	< 0.001	< 0.001	
Median Exp days	49	53	53	42	44	42	54

In general, subjects with lower baseline BMI had greater increases in weight.

	Mean (SD)	Weight Change	
Baseline BMI (kg/m2)	Quetiapine	Placebo	
≤ 18.5	1.8 (2.6)	1.1 (2.6)	p = 0.021
18.5 - 25	1.4 (2.7)	0.3 (3.5)	p < 0.001
25 - 30	1.1 (3.3)	0.1 (2.5)	p < 0.001
≥ 30	0.9 (3.9)	0.1 (3.7)	p < 0.001

There was a suggestion that weight gain increased over time (i.e., 0.9 kg at week 2, 1.2 kg at week 4 and 8, 2.4 kg at week 12 in quetiapine treated group compared to 0.2 - 0.5 kg for the placebo group), however, the sample sizes in the placebo-controlled trials at 12 weeks is significantly less than sample sizes at earlier weeks.

In the categorical analyses, 58% of quetiapine-treated subjects gained 0-5 kg at week 6 compared to 48% of subjects in the placebo group. Nearly 8% of quetiapine-treated subjects gained > 5 to 10 kg at week 6 compared to 2% of subjects in the placebo group. Approximately 4% of subjects gain > 5 to 10 kg in the 50 and 150 mg dose groups compared to ~8% in the 300 and 600 mg dose groups and 12-15% in the 600 and 800 mg/day groups. Similarly, in the > 10 to 15 kg category, the proportions of subjects in the placebo, quetiapine 50-300 mg/day groups are similar (< 1%) compared to 1.8% and 2.1% in the quetiapine 600 and 800 mg/day groups respectively.

Comparator-Controlled Trials

In comparator-controlled trials, quetiapine was associated with less mean weight gain compared to olanzapine, greater weight gain compared to haloperidol and similar weight gain to risperidone and chlorpromazine.

	QTP	OLZ	QTP	RIS	QTP	CHL	QTP	HAL
N	295	286	702	695	326	330	1035	730
Mean (SD) Wt Change	3.3(6.5)	6.1(8.0)	2.2(6.1)	2.3(6.9	1.1(4.2)	1.2(6.2)	1.3(5.1)	0(4)
Mean (SD) Modal Dose (mg)	563(191)	14(5)	552 (207)	5 (2)	549 (129)	627 (225)	439 (227)	11 (6)
Median Exposure (days)	167	168	56	56	65	63	42	42
p-value	< 0.001	-	0.701	-	0.699	-	< 0.001	-

The comparator-controlled data also indicate that weight gain increased over time for quetiapine-treated subjects – though, sample sizes at 48 weeks are very small. Consistent across comparator trials, the weight gain for quetiapine-treated subjects at week 24 is approximately 4 kg compared to 6 kg for olanzapine-treated subjects and similar 4 kg for risperidone-treated subjects. Limited sample sizes were available for haloperidol-treated subjects > 12 weeks and the chlorpromazine comparator-controlled trial was < 12 weeks.

Comparing the categorical weight gain for 6 week and 6 month time points also indicated increases in weight over time in quetiapine-treated subjects (little data was available for the 12 month time point for these requested analyses). While a greater proportion of olanzapine treated patients gained weight at 6 months (i.e., 28% of olanzapine-treated subjects and 18% of quetiapine-treated subjects gained > 5 to 10 kg at 6 months, > 15 to 20 kg for 10.9% of olanzapine vs. 5.2% of quetiapine) a similar proportion (17%) of both olanzapine and quetiapine-treated subjects gained > 10 to 15 kg (modal dose 569 mg of quetiapine; 13 mg of olanzapine).

Glucose

Placebo-Controlled Trials

In the clinical trials database, quetiapine was associated with an increase in fasting glucose. In the placebo-controlled trials, subjects receiving quetiapine (modal dose = 331 mg, median

exposure 54 days) had a significant increase of 2.4 (18.1) mg/dL in mean fasting glucose compared to a 1.6 (13.6) mg/dL increase in the placebo group.

The mean change in fasting glucose from baseline to endpoint did not follow a linear dose-related signal. Quetiapine 50, 150, 400 mg/day and placebo had numerically similar increases in fasting glucose while the 300, 600 and 800 mg/day groups were associated with a greater increase in glucose. However, the mean increase in fasting glucose was only significantly different from the placebo group for the 600 mg/day group.

	QTP 50 mg	QTP 150 mg	QTP 300 mg	QTP 400 mg	QTP 600 mg	QTP 800 mg	Placebo
All Trials							
n	439	832	1004	287	578	266	1489
Mean (SD) Change	0.2 (13.6)	1.8 (13.6)	3.3 (16.4)	1.7 (17.2)	3.4 (19.9)	2.4 (23.4)	1.7 (13.8)
p-value (vs. placebo)	NS	NS	NS (0.075)	NS (0.094)	0.02	NS	
Median Exposure (days)	56	56	56	42	56	42	56

The effects on fasting glucose variable in that the quetiapine 300 mg/day groups increased mean fasting glucose by 1.9 and 3.4 mg/dL in the GAD and MDD trials respectively - though neither of these changes in mean fasting glucose were significantly different from placebo. The quetiapine 50 mg/day group increased mean fasting glucose by 2.4 mg/dL in the MDD trials – again, this was not significantly different from placebo.

A more consistent dose-related linear increase in mean fasting glucose was noted for the 8-week time point in the by-week analysis (excluding the 400 and 800 mg/day dose groups due to small sample sizes).

		QTP 50 mg	QTP 150 mg	QTP 300 mg	QTP 400 mg	QTP 600 mg	QTP 800 mg	Placebo
		N = 656	N = 1286	N = 1915	N = 340	N = 1182	N = 451	N = 2319
Week 2	n	5	15	16	11	9	11	19
	Mean (SD) Change	-3.2 (17.5)	4.1 (4.6)	1.6 (10.6)	-0.3 (15.8)	-0.5 (8.2)	7.5 (7.4)	2.7 (13.1)
	p-value (vs. placebo)	NS	NS	NS	NS	NS	0.032	
Week 4	n	375	711	551	245	246	214	1090
	Mean (SD) Change	1.1 (14.4)	1.9 (13.5)	4.6 (14.7)	0.2 (18.7)	4.7 (21.5)	3.5 (19.9)	2.0 (14.4)
	p-value (vs. placebo)	NS	NS	NS (0.068)	NS	NS (0.090)	NS	
Week 8	n	235	498	636	2	335	0	871
	Mean (SD) Change	-1.0 (10.9)	1.5 (13.0)	2.8 (17.3)	5.4 (7.6)	3.5 (21.1)	NA	1.6 (13.1)
	p-value (vs. placebo)	0.023	NS	NS	NS	0.049	NA	

Shift changes in mean fasting glucose were analyzed and showed that 2.4% of quetiapine-treated subjects had a significant shift from normal baseline (< 100 mg/dL) to high (> 126 mg/dL) compared to 1.4% in the placebo group. Shifts from normal baseline to $\ge 140 \text{ mg/dL}$ were not different between the treatment groups.

Similar proportions (~12%) of subjects in the quetiapine and placebo groups had shift changes from impaired (≥ 100 - < 126 mg/dL) to high (≥ 126 mg/dL) fasting glucose. The percentage of subjects with an increase from normal to high fasting glucose (< 100 to ≥ 126 mg/dL) was 0.5% in the 50 mg/day group with similar percentages in the 150 – 600 mg/day groups (2.6% - 3.3%, not linear) and 1% in the 800 mg/day group compared to 1.4% in the placebo group. No dose-

related signal emerged when evaluating the percentages of subjects with shifts from impaired to high fasting glucose (100-125 to \geq 126 mg/dL).

Similar proportions of subjects in both quetiapine and placebo groups (\sim 27%) had a > 10 mg/dL shift in fasting glucose. The dose-related analyses showed that similar percentages of subjects had shifts in fasting glucose \geq 10 mg/dL in the placebo (26%) and quetiapine 50 – 600 mg/day groups (\sim 24 – 28%); compared to 37% in the quetiapine 800 mg/day group.

A greater proportion of quetiapine-treated subjects had a shift in HbA1c > 6.1% compared to placebo (4.1% vs. 2.8%). A dose-related signal was evident with 4.9% and 7.7% of subjects in the 600 mg/day and 800 mg/day groups exhibiting this shift.

Glycosuria was noted in 2.3% of quetiapine-treated subjects compared to 0.2% in the placebo group. Few data were available for the 50 and 150 mg/day quetiapine groups, but it is noteworthy that 4.7% of subjects experienced glycosuria in the 800 mg/day group.

Comparator-Controlled Trials

Similar mean increases in fasting glucose were noted in the comparator-controlled trials with olanzapine and risperidone.

	QTP	OLZ	QTP	RIS
N	198	212	198	207
Mean (SD) Glucose Change	3.0 (14.9)	3.9 (15.3)	3.0 (14.9)	2.5 (14.2)
p-value	0.572	-	0.692	-
Modal (SD) Dose (mg)	602.5 (160.2)	14.8 (3.8)	602.5 (160.2)	4.7 (1.6)
Median Exposure (days)	168	168	168	168

The analysis for mean fasting glucose change at 2, 4, 8, 12, 24 and 48 weeks were only informative for weeks 12 and 24 due to sample size limitations.

Shift changes in mean fasting glucose were analyzed and showed that similar proportions of subjects in the quetiapine-treated, olanzapine-treated and risperidone-treated subjects had a shift from normal baseline (< 100 mg/dL) to high (> 126 mg/dL) [$\sim 2.5 - 4\%$]. No differences were noted between these treatment groups for shifts from impaired baseline ($\ge 100 - < 126 \text{ mg/dL}$) to high ($\ge 126 \text{ mg/dL}$) fasting glucose [~ 10 -14%]; though a greater proportion of subjects with impaired baseline fasting glucose had a shift to high compared to those with a normal baseline fasting glucose.

There were no significant differences in the proportion of subjects with shifts in HbA1c to \geq 6.1%: 2.5% and 4.7% in the quetiapine and olanzapine groups and 2.5% and 3.3% in the quetiapine and risperidone groups. Similar proportions of subjects in the quetiapine, olanzapine and risperidone treatment groups experienced glycosuria (1.7 – 2.7%). Of note, in the comparator controlled trials with haloperidol, 16% of quetiapine-treated subjects experienced glycosuria compared to 7% of haloperidol-treated subjects.

Long Term Controlled and Uncontrolled Clinical Trials

The mean change in fasting glucose from 2 to 48 weeks indicated a trend for increasing glucose over time.

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
Seroquel = N	121	2741	2360	2963	788	201
Mean (SD) Glucose Change	1.7 (11)	2.8 (18)	2.7 (17)	2.7 (17)	3.8 (21)	4.9 (17)
Mean (SD) Modal Dose (mg)	362 (231)	317 (223)	339 (216)	436 (234)	491(214	397 (203)

Little long-term data for shifts in HbA1c are available from clinical trials – likely these assessments were not included in many trials. The data presented for the long term controlled and uncontrolled trials indicate that 6% of subjects had a shift to > 6.1%; however the median exposure is only 72 days (range 55 - 137). Glycosuria occurred in 3.2% of quetiapine-treated subjects.

Lipids

Placebo-Controlled Trials

In the clinical trials database, quetiapine was associated primarily with an increase in total cholesterol and fasting triglycerides with lesser effects on LDL and HDL. The quetiapine-treated subjects (modal daily dose =349 mg, median exposure 52 days) had a 2.6 (30.8) mg/dL increase in total cholesterol compared to a decrease of 3.0 (28.2) mg/dL in placebo-treated subjects. Subjects receiving quetiapine (mean modal daily dose = 346 mg, median exposure 55 days) had a 13 (95) mg/dL increase in fasting triglycerides compared to a decrease of 5.4 (75.2) mg/dL in subjects receiving placebo.

For the mean change in total cholesterol from baseline to endpoint, all doses of quetiapine were significantly different from placebo; however, only doses \geq 300 were associated with increases in total cholesterol. The increase did not follow a linear trend; the greatest increases in total cholesterol were in the 400 and 800 mg/day groups.

For the mean change in fasting triglycerides from baseline to endpoint, all quetiapine doses were associated with significant increases except for the 50 mg/day dose. Again, no clear linear trend was seen, all other doses produced fairly similar increases in fasting triglycerides.

The proportion of quetiapine-treated subjects with shifts from normal total cholesterol ($< 200 \, \mathrm{mg/dL}$) to high ($> 240 \, \mathrm{mg/dL}$) was 3.5% compared to 1.4% of placebo-treated subjects . The proportion of quetiapine-treated subjects with shifts from borderline ($> 200 \, \mathrm{to} < 240 \, \mathrm{mg/dL}$) to high ($> 240 \, \mathrm{mg/dL}$) was 21% compared to 16% of placebo-treated subjects. A robust doserelated effect was not noted for the shift from normal to high total cholesterol. Across all dose groups, similar proportions of subjects experienced a shift from borderline to high ($\sim 15 - 21\%$) and the 800 mg/day group had the highest proportion of subjects with this shift (36.8%).

The proportion of quetiapine-treated subjects with shifts from normal fasting triglycerides (< 150 mg/dL) to high (> 200 mg/dL) was 8% compared to 4% of placebo-treated subjects. The

proportion of quetiapine-treated subjects with shifts from borderline fasting triglycerides (> 150 to < 200 mg/dL) to high (> 200 mg/dL) was 32% compared to 19% of placebo-treated subjects. A robust dose-related effect was not noted for the shift from normal to high fasting triglycerides. Similar proportions of subjects in each dose group experienced a shift from borderline to high (~30-38%) with the exception of the 50 mg/day group (19.4%).

Comparator-Controlled Trials

Quetiapine was associated with less mean increase in total cholesterol compared to olanzapine, greater mean increase compared to risperidone and similar mean increases compared to chlorpromazine and haloperidol. Reliable comparison data for fasting triglycerides is not available due to very small sample sizes for this parameter (~20/group).

Measurements in mg/dl	QTP	OLZ	QTP	RIS	QTP	CHL	QTP	HAL
N =	234	245	435	450	68	76	94	89
Mean (SD) T-C Change	8.0 (38.0)	15.9 (41)	7 (38)	-2 (36)	29 (53)	20 (31)	2.4 (25.3)	-0.3 (27)
p-value	0.029	-	< 0.001	-	0.188	-	0.473	-
Mean Modal (SD) Dose (mg)	592.7 (175)	14.5 (4.1)	595(193	5	588(71	584(58	256(153	8.0 (5)
Median Exp (days)	168	168	58	57	70	70	56	56

In analyses of treatment-emergent significant changes comparing fasting baseline and post-baseline lipid measurements in the active-comparator controlled trials with haloperidol, chlorpromazine, olanzapine or risperidone, no significant differences were observed in most of these outlier categories between the active-comparator and quetiapine; except that in the risperidone controlled trials, some increases in outliers percentage regarding treatment emergent shifts in total cholesterol measures were noted for the quetiapine group with normal baseline cholesterol.

2 Introduction and Background

On 1/8/2008, FDA requested AstraZeneca for information of Seroquel (quetiapine fumarate) and Seroquel XR (quetiapine fumarate) Extended-Release tablets with respect to metabolic parameters of body weight, lipids and glucose data based upon FDA specified criteria of each entity. The specified criteria for mean change analyses and categorical analyses are listed at the beginning of each section regarding evaluation of weight, glucose and lipid data. The Sponsor submitted the requested information on June 26, 2008.

The Division requested these data for all clinical trials involving adults and pediatric/adolescent subjects. This review pertains to the adult data only. The pediatric data is currently under review by Cara Alfaro, Pharm.D. In December 2008, the Sponsor submitted a Changes Being Effected labeling supplement to primarily include safety data from pediatric/adolescent clinical trials in bipolar disorder and schizophrenia. The Division provided some feedback and suggestions for changes which were incorporated into labeling by the Sponsor. The bipolar disorder and schizophrenia clinical trials data were submitted as a supplemental NDA and are currently under review. Therefore, this review will not comment specifically on labeling issues as these will be addressed upon completion of the reviews of the pediatric/adolescent metabolic analyses and clinical trials per the sNDA.

The development program for quetiapine and quetiapine XR included many trials using a fixed-dose design. Though not included in the original request, the Division requested that the Sponsor perform an analysis of the dose-related effects of quetiapine and quetiapine XR on metabolic parameters. The Division requested that the analyses be provided for the following groups: all clinical trials, schizophrenia clinical trials, bipolar disorder clinical trials, generalized anxiety disorder clinical trials, major depressive disorder clinical trials and generalized anxiety disorder + major depressive disorder clinical trials. The Division requested these additional analyses on 2/5/2009 and the Sponsor submitted these data on 2/18/2009.

3 Method

3.1 Dose-Related Analyses

For the dose-related analyses, the Division requested that these analyses be performed for all fixed-dose trials (excluding flexible-dose trials). Since these analyses are a subset of the entire clinical trials database, the sample sizes in these data tables will be less than the sample sizes in the data tables pertaining to all clinical trials.

The fixed dose trials in schizophrenia, bipolar disorder, generalized anxiety disorder and major depressive disorder included quetiapine doses in the range of 50 - 800 mg/day:

Schizophrenia: 50, 150, 300, 400, 600 and 800 mg/day (one clinical trial had a 75 mg and 750 mg dose arm, these data were combined into the 50 and 800 mg dose arms respectively)

Bipolar disorder: 400 and 600 mg/day

Generalized anxiety disorder: 50, 150 and 300 mg/day Major depressive disorder: 50, 150 and 300 mg/day

The majority of the data for the 50 and 150 mg/day doses come from the GAD and MDD trials since very few subjects received these doses in fixed dose trials in schizophrenia.

Evaluating the dose-related effects of drugs on safety signals is helpful to assess risk: benefit and inform clinicians. Dose-relatedness might be viewed as a surrogate for concentration-relatedness; however, plasma concentrations were not always obtained in these clinical trials. It should be noted that for drugs that are extensively metabolized, there is tremendous variability in plasma concentrations achieved and this is somewhat obscured by focusing on doses only. As an example, from the original NDA for quetiapine, trough plasma concentrations were obtained in fixed dose trial 0013 (~50 subjects per group, number with plasma concentrations not available at the time of this review):

Dose (mg/day)	Mean [SD] Trough Plasma Concentration (ng/ml)
75	14 [11]
150	28 [16]
300	44 [34]
600	91 [59]
750	94 [72]

These data would indicate that for subjects in this clinical trial, the plasma concentrations between the 600 and 750 mg/day dose groups were essentially the same.

For all clinical trials, quetiapine was titrated to the target fixed dose. Though most of the protocols for the clinical trials in schizophrenia were not too specific about the titration scheme, some protocols indicate that the target dose of 750 mg/day should be reached by Day 7. Therefore, for the dose-related analyses that evaluated effects over time (starting at week 2), these data should reflect the target dose.

4 Study Population

As can be seen in Table 1 below, the study population consisted of:

- All adult subjects: age ≥18 at time of enrollment in 24 placebo-controlled trials, 17 comparator controlled trials (3 Chlorpromazine, 7 Haloperidol, 2 Olanzapine and 5 Risperidone) and all adult quetiapine-treated subject data from a total of 84 controlled and uncontrolled trials
- Pediatric and Adolescents: age <18 at time of enrollment review of the data from this population will not be covered in this review
- Subjects with first episode psychosis and antipsychotic naïve subjects in placebo-controlled, comparator-controlled and uncontrolled trials - Antipsychotic naïve subjects were obtained by excluding patients with any record of a specific antipsychotic medication and information from psychiatric history modules

We requested that the exclusion of subjects from trials that meet the following criteria:

- Studies without a source drug monotherapy arm
- Studies with duration under 7 days
- Studies with a relapse-prevention study design, in which subjects had source drug exposure prior to randomization
- Studies evaluating the source drug using routes of drug delivery other than oral drug delivery (e.g., intramuscular, intravenous)

According to the FDA request, the sponsor provided tabulations on glucose and lipids for the following conditions: fasting, non-fasting and random fasting. For analyses under a specific fasting condition a patient had to be in the same fasting condition at post-baseline assessments as in baseline assessment. It was noted that the earliest studies of quetiapine were not designed to evaluate glucose metabolism. Fasting glucose measurements were requested in all of clinical trials starting in July 2004.

It should be noted that the subject stratification and specified criteria for mean change analyses and categorical analyses used are listed at the beginning of each section regarding evaluation of weight, glucose and lipid data in section 5, 6, and 7, respectively.

The baseline demographic tables highlighting the details about the study population and a list of all the quetiapine clinical trials included in the analyses for this metabolic data submission by the sponsor are presented in the Appendix.

Table 1: Subject groups summarized for metabolic data

Number of	Total number of subjects		
trials	Quetiapine	Comparato	
24	6870	3000	
3	346	349	
7	1276	849	
2	297	289	
5	1385	1014	
84	20021	NA	
2	340	165	
0	NA	NA	
7	385	NA	
9	2489	1207	
1	66	72	
1	66	66	
13	5021	NA	
	trials 24 3 7 2 5 84 2 0 7 9	trials Quetiapine 24 6870 3 346 7 1276 2 297 5 1385 84 20021 2 340 0 NA 7 385 9 2489 1 66 1 66 1 66 1 66 1 66	

This table is extracted from sponsor's submission

5 Weight Gain

5.1 Adult Subjects in Placebo-Controlled Trials

5.1.1 Mean Change Analyses

Analyses of mean changes in weight (in kg) and in body mass index (BMI) from baseline to last observation carried forward (LOCF) endpoint for all patients in each subject group was evaluated. Similar mean change analyses of subgroups divided according to World Health Organization categories of baseline BMI: Underweight (BMI<18.5), Normal Weight (18.5≤BMI<25), Overweight (25≤BMI<30), and Obese (BMI≥30) was also reviewed. Treatment effect assessment was based on an analysis of variance (ANOVA) model with terms for protocol and treatment.

Observed case analyses of mean change for the following specified exposure durations: 2 weeks, 4 weeks, 8 weeks, 12 weeks, 24 weeks, and 48 weeks were reviewed. For these analyses, mean weight change was reported for all patients who completed the study time up to the time point specified for that analysis. Comparison between treatment groups was conducted and p-values were reported by the sponsor.

1. Mean Body Weight Change (in Kg)

The quetiapine-treated subjects (N = 6412) who received a modal daily dose of 347 mg, gained an average of 1.2 kg (2.6 lbs), compared to an increase of 0.2 kg (0.4 lbs) in placebo-treated subjects (N = 2817) with a median exposure of 43-49 days.

Table 2: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials)

	QTP	Placebo
	N = 6412	N = 2817
Mean (SD) Weight at BL	80.6 (21.2)	80.3 (21.9)
Mean (SD) Weight at EOT	81.8 (21.2)	80.5 (22.0)
Mean (SD) Weight Change	1.2 (3.5)	0.2 (3.3)
p-value	<0.001	-
Modal (SD) Dose in mg	347 (224)	-
Median Exposure (days)	43	49

Information obtained from Sponsor table 14 in Clinical Study Report

Dose-Related Analyses

The mean change in weight from baseline to endpoint was fairly consistent between doses for the fixed-dose placebo controlled trials. In the all clinical trials analyses, quetiapine 50 mg/day was associated with the least weight gain (0.8 kg) and this was not different from placebo (0.2 kg). For the 150, 300, 400, 600 and 800 mg/day groups, the mean change in weight was 1 to 1.4 kg (vs. 0.2 kg for placebo) and not linearly related to dose. This finding was consistent when evaluating the fixed dose trials by indication – with the exception of the schizophrenia trials. In the schizophrenia trials, all doses were statistically different from placebo and 50 mg/day was associated with a 1.4 kg increase in weight and the greatest weight gain was in the 150 mg/day group (2.9 kg). However, it should be noted that these lower dose groups (50 and 150 mg/day) also have significantly fewer subjects compared to the other dose groups.

Table 3: Weight (kg) - Change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled Trials (LOCF)

	QTP	QTP		QTP	QTP	Placebo	
	50 mg	150 mg	300 mg	400 mg	600 mg	800 mg	
All Trials							
N	656	1286	1915	340	1182	451	2319
Mean (SD) Change	0.8 (2.2)	1.0 (2.5)	1.1 (2.9)	1.1 (2.8)	1.4 (4.4)	1.2 (5.0)	0.2 (3.4)
p-value (vs. placebo)	NS	< 0.001	< 0.001	0.004	< 0.001	< 0.001	-
Median Exp days	49	53	53	42	44	42	54
Schizophrenia							•
N	29	29	205	340	422	451	337
Mean (SD) Change	1.4 (4.1)	2.9 (4.4)	1.5 (3.3)	1.1 (2.8)	1.9 (5.7)	1.2 (5.0)	0.2 (3.4)
p-value (vs. placebo)	0.020	< 0.001	0.002	0.002	< 0.001	0.001	-
Median Exposure (days)	41	42	31	42	42	42	41
Bipolar Disorder		•	•	•	•	•	•
N	-	-	894	-	760	-	679
Mean (SD) Change	-	-	1.0 (3.1)	-	1.2 (3.4)	-	0.0 (2.5)
p-value (vs. placebo)	-	-	< 0.001	-	< 0.001	-	-
Median Exposure (days)	-	-	56	-	56	-	56
GAD							
N	448	674	445	-	-	-	664
Mean (SD) Change	0.7 (2.2)	1.1 (2.5)	1.1 (2.5)	-	-	-	0.3 (2.4)
p-value (vs. placebo)	0.011	< 0.001	< 0.001	-	-	-	-
Median Exposure (days)	56	56	56	-	-	-	56
MDD							
N	179	583	371	-	-	-	639
Mean (SD) Change	0.8 (2.0)	0.9 (2.4)	1.2 (2.5)	-	-	-	0.4 (4.8)
p-value (vs. placebo)	NS	0.015	0.003	-	-	-	-
Median Exposure (days)	42	45	43	-	-	-	49
MDD + GAD							
N	627	1257	816	-	-	-	1303
Mean (SD) Change	0.7 (2.1)	1.0 (2.4)	1.2 (2.5)	-	-	-	0.3 (3.8)
p-value (vs. placebo)	NS	< 0.001	< 0.001	-	-	-	-
Median Exposure (days)	54	54	48	-	-	-	56

From Sponsor Tables 8, 12, 16, 20, 24, 28 in 2/18/09 submission

2. Mean Body Weight Change by BMI Category

The mean weight gain by baseline BMI category was 1.8 kg, 1.4 kg, 1.1 kg and 0.9 kg, for quetiapine-treated subjects, and 1.1 kg, 0.3 kg, 0.1 kg and 0.1 kg for placebo-treated subjects for the underweight (BMI < 18.5), normal weight (BMI 18.5-25), overweight (BMI 25-30) and obese (BMI > 30) groups, respectively. It seemed that subjects with lower baseline BMI had greater increases in weight.

Table 4: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (placebo-controlled trials)

BMI category (kg/m ²)		QTP	Placebo
Underweight BMI ≤ 18.5	N	189	106
	Mean (SD) Weight at BL	48.0 (7.2)	47.6 (6.8)
	Mean (SD) Weight at EOT	49.8 (7.7)	48.8 (7.4)
	Mean (SD) Weight Change	1.8 (2.6)	1.1 (2.6)
	p-value	0.021	-
	Modal (SD) Dose (mg)	417 (240)	-
	Median Exposure (days)	43	43
Normal weight BMI 18.5 to 25	N	2157	915
	Mean (SD) Weight at BL	63.8 (9.1)	63.6 (9.1)
	Mean (SD) Weight at EOT	65.2 (9.5)	63.9 (9.7)
	Mean (SD) Weight Change	1.4 (2.7)	0.3 (3.5)
	p-value	< 0.001	-

	Modal (SD) Dose (mg)	348 (229)	-
	Median Exposure (days)	43	49
Overweight BMI 25 to 30	N	1863	835
	Mean (SD) Weight at BL	79.6 (10.0)	79.7 (10.2)
	Mean (SD) Weight at EOT	80.7 (10.5)	79.8 (10.6)
	Mean (SD) Weight Change	1.1 (3.3)	0.1 (2.5)
	p-value	< 0.001	-
	Modal (SD) Dose (mg)	340 (220)	-
	Median Exposure (days)	44	52
Obese BMI ≥30	N	2072	895
	Mean (SD) Weight (kg) at BL	102.0 (18.6)	102.0 (20.5)
	Mean (SD) Weight at EOT	102.8 (18.9)	102.1 (20.7)
	Mean (SD) Weight (kg) Change	0.9 (3.9)	0.1 (3.7)
	p-value	< 0.001	-
	Modal (SD) Dose (mg)	347 (222)	-
	Median Exposure (days)	43	49

Information obtained from Sponsor table 15 in Clinical Study Report

Dose-Related Analyses

There was no linear dose-related change in weight from baseline to endpoint by baseline BMI category.

Table 5: Weight (kg) - Change from Baseline to Endpoint by Baseline BMI Category, All Fixed-Dose Placebo-Controlled Trials (LOCF)

BMI category (kg/m²)		QTP 50 mg N = 656	QTP 150 mg N = 1286	QTP 300 mg N = 1915	QTP 400 mg N = 340	QTP 600 mg N = 1182	QTP 800 mg N = 451	Placebo N = 2319
BMI < 18.5	n	20	25	27	30	39	19	74
(Underweight)	Mean (SD) Change	0.9 (1.3)	1.0 (1.6)	1.8 (2.1)	1.3 (1.6)	2.5 (2.8)	1.7 (4.0)	0.8 (2.4)
	p-value (vs. placebo)	NS	NS	0.021	NS	0.007	NS	-
	Median Exposure (days)	56	56	56	42	43	42	44
$18.5 \le BMI < 25$	n	251	433	596	154	384	150	757
(Normal weight)	Mean (SD) Change	0.8 (2.2)	1.2 (2.3)	1.4 (2.5)	1.5 (2.7)	1.8 (3.0)	1.6 (2.7)	0.4 (3.6)
	p-value (vs. placebo)	NS	0.001	< 0.001	NS	< 0.001	0.002	-
	Median Exposure (days)	55	54	55	42	43	42	54
25 ≤ BMI < 30	n	200	388	600	67	361	122	702
(Overweight)	Mean (SD) Change	0.8 (2.2)	1.1 (2.4)	1.0 (2.7)	0.6 (2.8)	1.1 (3.4)	1.4 (2.8)	0.2 (2.5)
	p-value (vs. placebo)	0.009	< 0.001	< 0.001	0.034	< 0.001	0.003	
	Median Exposure (days)	45	54	51	42	48	42	55
BMI ≥30 (Obese)	n	185	438	689	87	394	157	781
	Mean (SD) Change	0.6 (2.4)	0.8 (2.9)	1.0 (3.4)	0.8 (3.2)	1.1 (4.5)	0.5 (7.4)	0.1 (3.9)
	p-value (vs. placebo)	NS	0.007	< 0.001	NS	< 0.001	NS	-
	Median Exposure (days)	44	50	52	42	46	41	54

From Sponsor Table nine in 2/18/09 submission

3. Mean Body Weight Change by Time (in Weeks)

The mean weight gain from baseline to endpoint for quetiapine-treated subjects was 0.9 kg, 1.2 kg, 1.2 kg, and 2.4 kg, compared to 0.2 kg, 0.2 kg, 0.2 kg, and 0.5 kg in the placebo group at Weeks 2, 4, 8, and 12, respectively.

Table 6: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (short-term placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
QTP= N	3779	3685	2591	164
Mean (SD) Weight at BL	79.6 (21.5)	79.6 (21.4)	79.6 (20.6)	69.8 (17.3)
Mean (SD) Weight at EOT	80.5 (21.6)	80.7 (21.4)	80.9 (20.7)	72.1 (16.8)
Mean (SD) Weight Change	0.9 (2.4)	1.2 (2.9)	1.2 (3.0)	2.4 (4.2)
p-value	< 0.001	< 0.001	< 0.001	< 0.001
Modal (SD) Dose (mg)	322 (237)	328 (237)	311 (200)	585 (216)
Median Exposure (days)	15	29	57	84

Placebo = N	1734	1731	1302	91
Mean (SD) Weight at BL	78.6 (21.9)	79.7 (22.5)	79.9 (22.0)	67.0 (16.6)
Mean (SD) Weight at EOT	78.8 (22.0)	79.9 (22.5)	80.1 (22.1)	67.5 (16.7)
Mean (SD) Weight Change	0.2 (2.2)	0.2 (2.5)	0.2 (2.6)	0.5 (4.1)
p-value	-	-	-	-
Mean Modal (SD) Dose (mg)	-	-	-	-
Median Exposure (days)	15	29	57	84

Information obtained from Sponsor table 16 in Clinical Study Report

Dose-Related Analyses

In Table 6, above, weight increased from weeks 4 -8 to week 12. However, for the dose-related analyses, there were no fixed-dose trials of 12 weeks duration. Additionally, virtually no data is available for quetiapine 400 and 800 mg/day at week 8. Therefore, the dose-related changes in weight over time analyses are not very informative.

For the 2, 4 and 8 week time points, mean changes in weight for all quetiapine doses were significantly different from placebo. There is a suggestion of a linear dose-relationship for the 8 week time point for the dose groups for which there are reasonable sample sizes.

Table 7: Weight Change (kg) from Baseline to Endpoint By Week, All Fixed-Dose Placebo-Controlled Trials

		QTP 50 mg N = 656	QTP 150 mg N = 1286	QTP 300 mg N = 1915	QTP 400 mg N = 340	QTP 600 mg N = 1182	QTP 800 mg N = 451	Placebo N = 2319
Week 2	n	551	1063	783	313	339	352	1449
	Mean (SD) Change	0.5 (1.7)	0.8 (1.8)	1.0 (1.9)	0.8 (2.2)	1.4 (2.5)	1.1 (4.4)	0.2 (2.2)
	p-value (vs. placebo)	0.015	< 0.001	< 0.001	0.009	< 0.001	0.005	-
Week 4	n	526	1014	772	291	309	320	1388
	Mean (SD) Change	0.6 (1.9)	0.9 (2.2)	1.2 (3.2)	1.2 (2.6)	1.5 (3.3)	1.4 (4.6)	0.3 (2.4)
	p-value (vs. placebo)	0.011	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Week 8	n	322	639	938	4	542	3	1211
	Mean (SD) Change	0.8 (2.2)	1.1 (2.7)	1.2 (3.0)	0.3 (1.7)	1.5 (3.6)	2.0 (2.0)	0.2 (2.6)
	p-value (vs. placebo)	0.045	< 0.001	< 0.001	NS	< 0.001	NS	-

From Sponsor Table 10 in 2/18/09 submission

4. Mean BMI Change (kg/m^2)

The quetiapine-treated subjects (N = 6281, mean daily dose of 347 mg) showed a mean increase in BMI from baseline to endpoint of 0.4 kg/m², compared to 0.1 kg/m² in placebo-treated subjects (Table 8).

Table 8: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials)

	QTP N = 6281	Placebo N = 2751
Mean (SD) BMI at BL	28.2 (7.0)	28.2 (7.3)
Mean (SD) BMI at EOT	28.6 (7.0)	28.3 (7.4)
Mean (SD) BMI Change	0.4 (1.2)	0.1 (1.2)
p-value	< 0.001	=
Modal (SD) Dose (mg)	347.2 (225.0)	-
Median Exposure (days)	43	49

Information obtained from Sponsor table 17 in Clinical Study Report

Dose-Related Analyses

There was no strong linear relationship to dose. Overall, most quetiapine dose groups had a mean change in BMI of 0.4 kg/m2, the 50 mg/day group had a mean change of 0.3 kg/m2. All quetiapine dose groups had a mean change in BMI that was statistically different from placebo (0.1 kg/m2). Similar to the mean change in weight data, the change in BMI was most variable in the schizophrenia trials where the 50 mg/day group had a mean BMI change of 0.5 kg/m2 and the dose group with the largest mean change was 150 mg/day with a BMI change of 1.0 kg/m2 (it should be noted, however, that these lower dose groups also have significantly fewer subjects compared to the other dose groups).

Table 9: BMI (kg/m²) - Change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled Trials (LOCF)

	QTP	QTP	QTP	QTP	QTP	QTP	Placebo
	50 mg	150 mg	300 mg	400 mg	600 mg	800 mg	
All Trials							
N	656	1284	1912	338	1178	448	2314
Mean (SD) Change	0.3 (0.8)	0.4 (0.9)	0.4 (1.0)	0.4 (1.0)	0.5 (1.3)	0.4 (1.9)	0.1 (1.2)
p-value (vs. placebo)	0.046	< 0.001	< 0.001	0.007	< 0.001	< 0.001	-
Median Exposure (days)	49	53	53	42	44	42	54
Schizophrenia		•		*	*		•
N	29	28	204	338	418	448	336
Mean (SD) Change	0.5 (1.4)	1.0 (1.5)	0.5 (1.1)	0.4 (1.0)	0.6 (1.5)	0.4 (1.9)	0.1 (1.2)
p-value (vs. placebo)	0.031	< 0.001	0.005	0.004	< 0.001	0.006	-
Median Exposure (days)	41	42	30.5	42	42	42	41
Bipolar Disorder		•		*	*		•
N	-	-	893	-	760	-	678
Mean (SD) Change	-	-	0.4 (1.1)	-	0.4 (1.2)	-	0.0 (0.9)
p-value (vs. placebo)	-	-	< 0.001	-	< 0.001	-	-
Median Exposure (days)	-	-	56	-	56	-	56
GAD		•		*	*		•
N	448	674	445	-	-	-	663
Mean (SD) Change	0.3 (0.8)	0.4 (0.9)	0.4 (0.9)	-	-	-	0.1 (0.9)
p-value (vs. placebo)	0.008	< 0.001	< 0.001	-	-	-	-
Median Exposure (days)	56	56	56	-	-	-	56
MDD							
N	179	582	370	-	-	-	637
Mean (SD) Change	0.3 (0.7)	0.3 (0.9)	0.4 (0.9)	-	-	-	0.1 (1.7)
p-value (vs. placebo)	NS	0.008	0.002	-	-	-	-
Median Exposure (days)	42	45	43	-	-	-	49
MDD + GAD							
N	627	1256	815	-	-	-	1300
Mean (SD) Change	0.3 (0.7)	0.4 (0.9)	0.4 (0.9)	-	-	-	0.1 (1.3)
p-value (vs. placebo)	NS	< 0.001	< 0.001	-	-	-	-
Median Exposure (days)	54	54	48	-	-	-	56

From Sponsor Tables 36, 38, 40, 42, 44, 46 in 2/18/09 submission

5. Mean BMI Change by BMI Category

The mean BMI change from baseline to endpoint by baseline BMI category showed an increase of 0.7, 0.5, 0.4 and 0.3 kg/ m^2 for quetiapine-treated subjects, and 0.4, 0.1, 0 and 0 kg/ m^2 for placebo-treated subjects in the underweight (BMI < 18.5), normal weight (BMI 18.5-25), overweight (BMI 25-30) and obese (BMI > 30) groups, respectively.

Table 10: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (placebo-controlled trials)

BMI category (kg/m ²)		QTP	Placebo
Underweight BMI ≤ 18.5	N	189	106
	Mean (SD) BMI at BL	17.2 (1.0)	17.3 (1.0)
	Mean (SD) BMI at EOT	17.9 (1.5)	17.7 (1.3)
	Mean (SD) BMI Change	0.7 (0.9)	0.4 (0.9)
	p-value	0.015	-
	Modal (SD) Dose (mg)	417 (239)	-
	Median Exposure (days)	43	43
Normal weight BMI 18.5 to 25	N	2157	915
_	Mean (SD) BMI at BL	22.3 (1.7)	22.3 (1.8)
	Mean (SD) BMI at EOT	22.8 (1.9)	22.4 (2.1)
	Mean (SD) BMI Change	0.5 (0.9)	0.1 (1.2)
	p-value	< 0.001	-
	Modal (SD) Dose (mg)	348 (229)	-
	Median Exposure (days)	43	49
Overweight BMI 25 to 30	N	1863	835
	Mean (SD) BMI at BL	27.3 (1.4)	27.3 (1.4)
	Mean (SD) BMI at EOT	27.7 (1.9)	27.4 (1.7)
	Mean (SD) BMI Change	0.4 (1.2)	0.0 (0.9)
	p-value	< 0.001	-
	Modal (SD) Dose (mg)	340 (220)	-
	Median Exposure (days)	44	52
Obese BMI ≥ 30	N	2072	895
	Mean (SD) BMI at BL	36.1 (5.8)	36.4 (6.4)
	Mean (SD) BMI at EOT	36.4 (5.9)	36.5 (6.5)
	Mean (SD) BMI Change	0.3 (1.4)	0.0 (1.3)
	p-value	< 0.001	-
	Modal (SD) Dose (mg)	347 (222)	-
	Median Exposure (days)	43	49

Information obtained from Sponsor table 18 in Clinical Study Report

Dose-Related Analyses

No strong dose-related signal emerged in the evaluation of mean change in BMI by baseline BMI category. In subjects with BMI < 25 kg/m2, the quetiapine 50 and 150 mg/day groups appeared to be associated with a lesser increase in BMI compared to the other dose groups. This same pattern was not evident in overweight ($25 \le \text{BMI} < 30$) or obese (BMI ≥ 30) subjects.

Table 11: BMI (kg/m2): Change from Baseline to Endpoint by Baseline BMI Category, All Fixed-Dose Placebo-Controlled Trials (LOCF)

BMI category (kg/m ²)		QTP 50 mg N = 656	QTP 150 mg N = 1286	QTP 300 mg N = 1915	QTP 400 mg N = 340	QTP 600 mg N = 1182	QTP 800 mg N = 451	Placebo N = 2319
BMI < 18.5	n	20	25	27	30	39	19	74
(Underweight)	Mean (SD) Change	0.3 (0.5)	0.4 (0.6)	0.6 (0.7)	0.5 (0.6)	0.9 (1.0)	0.6 (1.4)	0.3 (0.9)
	p-value (vs. placebo)	NS	NS	0.027	NS	0.008	NS	-
	Median Exposure (days)	56	56	56	42	43	42	44
$18.5 \le BMI < 25$	n	251	433	596	154	384	150	757
(Normal weight)	Mean (SD) Change	0.3 (0.8)	0.4 (0.8)	0.5 (0.9)	0.5 (1.0)	0.6 (1.0)	0.5 (0.9)	0.1 (1.3)
	p-value (vs. placebo)	NS	< 0.001	< 0.001	NS	< 0.001	0.002	-
	Median Exposure (days)	55	54	55	42	43	42	54
$25 \le BMI < 30$	n	200	388	600	67	361	122	702
(Overweight)	Mean (SD) Change	0.3 (0.8)	0.4 (0.8)	0.3 (0.9)	0.2 (1.0)	0.4 (1.2)	0.5 (1.0)	0.1 (0.9)
	p-value (vs. placebo)	0.011	< 0.001	< 0.001	0.050	< 0.001	0.002	-
	Median Exposure (days)	45	54	51	42	48	42	55
BMI ≥30	n	185	438	689	87	394	157	781
(Obese)	Mean (SD) Change	0.2 (0.9)	0.3 (1.0)	0.4 (1.2)	0.3 (1.1)	0.4 (1.6)	0.1 (2.8)	0.0 (1.4)
	p-value (vs. placebo)	NS	0.005	< 0.001	NS	< 0.001	NS	-
	Median Exposure (days)	44	50	52	42	46	41	54

5.1.2 Categorical Analyses

1. Weight Gain Outliers

In a pooled analysis of placebo-controlled trials, among quetiapine-treated subjects (N = 3102 at a modal daily dose of 319 mg), the majority (58%) had a mean weight gain of 0-5 kg, compared to 48% in the placebo-controlled subjects (N = 1405) at Week 6. Nearly 8% of subjects in the quetiapine group compared to 2% of subjects in the placebo group gained > 5 to 10 kg at week 6. About 1% of the quetiapine treated patients gained >10 to 15 kg at week 6 compared to 0.4% in the placebo group.

Table 12: Proportion of Patients with Weight (in kg) Change at Week 6 (placebo-controlled trials)

QTP	Placebo	
N = 3102	N = 1405	
N (%)	N (%)	
1035 (33.4)	693 (49.3)	
1785 (57.5)	677 (48.2)	
242 (7.8)	26 (1.9)	
34 (1.1)	5 (0.4)	
3 (0.1)	2 (0.1)	
1 (0.0)	1 (0.1)	
2 (0.1)	1 (0.1)	
319 (237)	0	
43	43	
	N = 3102 N (%) 1035 (33.4) 1785 (57.5) 242 (7.8) 34 (1.1) 3 (0.1) 1 (0.0) 2 (0.1) 319 (237)	N = 3102 N = 1405 N (%) N (%) 1035 (33.4) 693 (49.3) 1785 (57.5) 677 (48.2) 242 (7.8) 26 (1.9) 34 (1.1) 5 (0.4) 3 (0.1) 2 (0.1) 1 (0.0) 1 (0.1) 2 (0.1) 1 (0.1) 319 (237) 0

Information obtained from Sponsor table 19 in Clinical Study Report

Dose-Related Analysis

Similar proportions of subjects gained > 0 to 5 kg between the quetiapine dose groups. However, a dose-related signal emerges when evaluating the > 5 to 10 kg weight gain. Approximately 4% of subjects gain > 5 to 10 kg in the 50 and 150 mg dose groups compared to 8% in the 300 and 600 mg dose groups and 12-15% in the 600 and 800 mg/day groups. Similarly, in the > 10 to 15 kg category, the proportions of subjects in the placebo, quetiapine 50-300 mg/day groups are similar (< 1%) compared to 1.8% and 2.1% in the quetiapine 600 and 800 mg/day groups respectively.

Table 13: Proportion of Subjects with Weight Change by Prespecified Weight Change Categories, Fixed-Dose Placebo-Controlled Trials

1 riais							
Weight (kg)	QTP	QTP	QTP	QTP	QTP	QTP	Placebo
Change at	50 mg	150 mg	300 mg	400 mg	600 mg	800 mg	
Week 6	N = 477	N = 900	N = 639	N = 246	N = 280	N = 291	N = 1231
≤0 kg	190 (39.8%)	281 (31.2%)	185 (29.0%)	97 (39.4%)	91 (32.5%)	112 (38.5%)	605 (49.1%)
> 0 to 5 kg	269 (56.4%)	574 (63.8%)	400 (62.6%)	129 (52.4%)	140 (50.0%)	136 (46.7%)	601 (48.8%)
>5 to 10 kg	16 (3.4%)	39 (4.3%)	51 (8.0%)	19 (7.7%)	42 (15.0%)	35 (12.0%)	17 (1.4%)
>10 to 15 kg	1 (0.2%)	6 (0.7%)	3 (0.5%)	1 (0.4%)	5 (1.8%)	6 (2.1%)	5 (0.4%)
>15 to 20 kg	0	0	0	0	1 (0.4%)	1 (0.3%)	1 (0.1%)
>20 to 25 kg	0	0	0	0	0	1 (0.3%)	1 (0.1%)
>25 kg	1 (0.2%)	0	0	0	1 (0.4%)	0	1 (0.1%)

From Sponsor Table 11 in 2/18/09 submission

5.2 Adult Subjects in Comparator-Controlled Trials

5.2.1 Mean Change Analyses

1. Mean Body Weight Change (in Kg)

In a pooled analysis of comparator-controlled trials, olanzapine-treated subjects had the highest mean weight gain of 6.1 kg (13.4 lbs) at a modal olanzapine dose of 14 mg per day, compared to 3.3 kg (7.3 lbs) in quetiapine-treated subjects at a modal quetiapine dose of 562 mg per day with a median exposure of 167-168 days. Similar mean increase in weight of 2.2 kg was observed between the quetiapine group (modal daily dose 552 mg) and the risperidone group (modal daily dose 5 mg); both drugs with median exposure of 56 days. See table 14 below for mean weight change observed in the olanzapine, risperidone, chlorpromazine and haloperidol groups.

Table 14: Weight (in Kg) - change from baseline (BL) to end of treatment (EOT) (comparator-controlled trials)

	QTP	OLZ	QTP	RIS	QTP	CHL	QTP	HAL
N	295	286	702	695	326	330	1035	730
Mean (SD)	74.1	74.3 (16.9)	79.2	81.0	73.2	73.0	76.0	72.6
Wt at BL	(17.4)		(20.3)	(20.5)	(15.7)	(15.0)	(17.3)	(16.5)
Mean (SD)	77.4	80.3 (19.1)	81.3	83.3	74.2	74.3	77.4	72.7
Wt at EOT	(19.0)		(20.7)	(19.6)	(15.8)	(15.3)	(17.4)	(16.0)
Mean (SD)	3.3	6.1	2.2	2.3	1.1	1.2	1.3	0.0
Wt Change	(6.5)	(8.0)	(6.1)	(6.9)	(4.2)	(6.2)	(5.1)	(4.0)
Modal (SD)	563	14	552 (207)	5	549 (129)	627	439 (227)	11
Dose (mg)	(191)	(5)		(2)		(225)		(6)
Median Exp (days)	167	168	56	56	65	63	42	42
p-value	< 0.001	-	0.701	-	0.699	-	< 0.001	-

Information obtained from Sponsor tables 20, 26, 32 and 38 in Clinical Study Report

QTP- quetiapine, CHL - Chlorpromazine, OlZ - olanzapine, RIS - risperidone, HAL - haloperidol

2. *Mean Body Weight Change by BMI Category*

The mean weight gain by baseline BMI category was 6.0-6.5 kg in olanzapine—treated subjects and 3.2-3.7 kg in quetiapine—treated subjects. For each category [underweight (BMI < 18.5), normal weight (BMI 18.5-25), overweight (BMI 25-30) and obese (BMI > 30)]. As can be seen in table 15 below for mean weight gain observed in the quetiapine group compared to olanzapine, risperidone, chlorpromazine and haloperidol groups, the greatest mean increase was seen in the olanzapine treated group for all BMI categories while similar mean changes were noted in other antipsychotic treatment groups including quetiapine.

Table 15: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials)

BMI category (kg/m2)	QTP	OLZ	QTP	RIS	QTP	CHL	QTP	HAI
Underweight BMI ≤ 18.5 (N)	19	18	29	23	10	13	20	24
Mean (SD)	54.0	50.7	53.2	50.7	53.8	51.4	50.4	51.1
Wt at BL	(8.4)	(4.2)	(7.8)	(5.7)	(7.2)	(6.8)	(7.5)	(5.4)
Mean (SD)	57.7	56.7	56.6	55.7	56.3	52.7	51.6	54.0
Wt at EOT	(8.5)	(5.4)	(7.8)	(5.8)	(7.2)	(7.2)	(9.0)	(6.1)
Mean (SD)	3.7	6.0	3.3	4.9	2.5	1.3	1.2	2.9
Wt Change	(4.9)	(5.2)	(4.6)	(3.5)	(3.0)	(2.9)	(3.5)	(3.3)
p-value	0.167	-	0.201	-	0.147	-	0.178	-
Modal (SD)	542	156	528	5	495	546	487	12
Dose (mg)	(187)	(4)	(205)	(2)	(157)	(217)	(196)	(4)
Median Exposure (days)	168	168	58	163	44	42	42	42

Normal Weight BMI 18.5 to 25 (N)	143	140	281	264	125	124	344	232
Mean (SD)	64.2	66.4	66.3	67.2	64.5	64.9	67.0	65.4
Wt at BL	(9.0)	(8.4)	(9.2)	(9.1)	(8.8)	(8.5)	(8.8)	(8.5)
Mean (SD)	67.4	72.3	68.6	70.3	66.1	67.4	69.0	66.1
Wt at EOT	(11.2)	(10.7)	(10.5)	(9.6)	(9.2)	(12.4)	(9.7)	(9.0)
Mean (SD)	3.2	6.0	2.3	3.1	1.7	2.5	2.1	0.8
Wt Change	(5.8)	(6.8)	(5.3)	(4.3)	(3.9)	(8.4)	(4.6)	(3.4)
p-value	< 0.001	-	0.073	-	0.297	(01.)	0.004	-
Modal (SD)	558	14	553	5	520	548	466	10
Dose (mg)	(198)	(4)	(211)	(2)	(158)	(200)	(227)	(5)
Median Exposure (days)	164	168	57	70	42	42	42	42
	0.4	0.5	202	101		72	250	1.00
Overweight BMI 25 to 30 (N)	84	85	203	184	63	72	270	162
Mean (SD)	82.2	80.5	81.6	82.4	79.1	80.2	79.7	78.7
Wt at BL	(11.1)	(10.5)	(10.7)	(9.8)	(10.5)	(10.6)	(9.1)	(9.1)
Mean (SD)	85.5	86.4	83.8	85.1	80.1	80.9	80.9	78.0
Wt at EOT	(12.6)	(14.7)	(11.4)	(11.8)	(12.1)	(10.9)	(10.4)	(9.6)
Mean (SD)	3.3	6.0	2.2	2.7	1.1	0.7	1.2	-0.7
Wt Change	(6.9)	(9.2)	(5.5) 0.554	(5.9)	(4.3) 0.625	(3.8)	(5.5)	(3.8)
p-value	0.011	-		-		-	0.004	-
Modal (SD)	571	14	553	5	566	576	442	10
Dose (mg)	(187)	(5)	(209)	(2)	(110)	(188)	(236)	(5)
Median Exposure (days)	168	168	56	56	69	69	42	42
Obese BMI \geq 30 (N)	48	43	163	188	51	41	170	97
Mean (SD)	95.5	97.7	103.4	104.0	94.2	93.0	99.3	95.4
Wt at BL	(14.7)	(19.9)	(19.8)	19.6)	(13.3)	(14.3)	(15.3)	(14.7)
Mean (SD)	99.2	104.2	104.9	104.4	94.4	92.0	99.3	93.8
Wt at EOT	(19.1)	(23.1)	(21.4)	(18.2)	(14.5)	(14.3)	(16.1)	(14.5)
Mean (SD)	3.6	6.5	1.5	0.5	0.2	-1.0	0.0	-1.6
Wt Change	(8.3)	(10.1)	(8.1)	(10.4)	(4.8)	(5.5)	(5.3)	(5.8)
p-value	0.118	-	0.385	-	0.233	-	0.079	-
Modal (SD)	569	145	564	5.3	563	593	403	107
Dose (mg)	(188)	(5)	(205)	(2)	(108)	(180)	(242)	(5)
Median Exposure (days)	168	168	56	56	65	69	42	42

Information obtained from Sponsor tables 21, 27, 33 and 39 in Clinical Study Report QTP- quetiapine, CHL - Chlorpromazine, OIZ - olanzapine, RIS - risperidone, HAL - haloperidol

3. Mean Body Weight Change by Time (in Weeks)

The mean weight gain from baseline to endpoint for olanzapine—treated subjects showed 2.3, 2.6, 4.0, 4.8, 6.2, and 13.2 kg; and for quetiapine-treated subjects was 1.4, 1.6, 2.4, 2.9, 4.1 and 7.1 kg, at Weeks 2, 4, 8, 12, 24 and 48, respectively. Weight gain increased over time for quetiapine-treated subjects although sample sizes at 48 weeks are very small. Consistent across comparator trials, the weight gain for quetiapine-treated subjects at week 24 is approximately 4 kg compared to 6 kg for olanzapine-treated subjects. But, similar weight gain (4 kg) was observed for risperidone-treated subjects. Limited sample sizes were available for haloperidol-treated subjects > 12 weeks and the chlorpromazine comparator-controlled trial was < 12 weeks.

Table 16: Weight increase over time by week (comparator-controlled trials)

	Week 2		Week 4		Week 8		Week 12		Week 24		Week 48	<u> </u>
	OLZ	QTP	OLZ	QTP	OLZ	QTP	OLZ	QTP	OLZ	QTP	OLZ	QTP
	N =106	N=113	N=271	N=265	N=254	N=233	N=253	N=223	N=214	N=171	N=40	N=37
Mean (SD)	2.3	1.4	2.6	1.6	4.0	2.4	4.8	2.9	6.2	4.1	13.2	7.1
Wt Change	(2.2)	(2.0)	(3.3)	(2.7)	(4.5)	(3.7)	(5.7)	(4.5)	(7.6)	(6.5)	(9.5)	(11.3)
p-value	0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	0.001	-	0.011	-

Week 2	Week 4	Week 8	Week 12	Week 24	Week 48

	RIS N=361	QTP N=358	RIS N=466	QTP N=477	RIS N=408	QTP N=392	RIS N=295	QTP N=284	RIS N=190	QTP N=171	RIS N=34	QTP N=37
Mean (SD)	1.6	1.5	1.8	1.5	2.0	1.9	2.7	2.7	4.2	4.1	6.0	7.1
Wt Change	(4.4)	(4.9)	(3.2)	(4.6)	(3.7)	(5.6)	(3.8)	(4.5)	(5.6)	(6.5)	(10.7)	(11.3)
p-value	0.674	-	0.287	-	0.791	-	0.982	-	0.733	-	0.692	-

	Week 2		Week 4		Week 8		Week 12		Week 24		Week 48	
	HAL N= 219	QTP N=311	HAL N=220	QTP N=299	HAL N=241	QTP N=300	HAL N= 90	QTP N=187	HAL N=17	QTP N=75	HAL N=6	QTP N=18
Mean (SD)	-0.5	0.1	-0.4	0.7	0.4	1.6	0.1	2.5	-1.7	3.9	1.0	7.2
Wt Change	(2.7)	(3.0)	(2.2)	(2.7)	(3.8)	(4.3)	(3.7)	(5.2)	(6.1)	(8.0)	(5.6)	(9.4)
p-value	0.086	-	< 0.001	-	0.002	-	0.001	-	0.047	-	0.110	-

See table 17 below for mean weight gain (by time category) observed in the quetiapine, olanzapine, risperidone, chlorpromazine and haloperidol groups.

Table 17:Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (comparator-controlled trials)

	Wee	ek 2	We	ek 4	We	ek 8	Wee	ek 12	Wee	ek 24	Week	48
	OLZ	QTP	OLZ	QTP	OLZ	QTP	OLZ	QTP	OLZ	QTP	OLZ	QTP
	N =106	N=113	N=271	N=265	N=254	N=233	N=253	N=223	N=214	N=171	N=40	N=37
Mean (SD)	77.1	77.2	74.0	74.2	74.1	74.2	3.8	7 74.2	73.7	74.7	76.0	77.1
Wt at BL	(16.9)	(19.4)	(16.6)	(17.8)	(16.7)	(17.2)	(15.5)	(16.9)	(15.0)	(15.8)	(13.6)	(21.8)
Mean (SD)	79.4	78.5	76.6	75.9	78.1	76.6	78.6	77.1	80.0	78.8	89.2	84.2
Wt at EOT	(16.8)	(19.4)	(17.1)	(17.9)	(17.3)	(17.6)	(16.5)	(17.4)	(17.0)	(16.6)	(16.9)	(28.3)
Mean (SD)	2.3	1.4	2.6	1.6	4.0	2.4	4.8	2.9	6.2	4.1	13.2	7.1
Wt Change	(2.2)	(2.0)	(3.3)	(2.7)	(4.5)	(3.7)	(5.7)	(4.5)	(7.6)	(6.5)	(9.5)	(11.3)
p-value	0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	0.001	-	0.011	
Modal (SD)	13	504	14	580	14	597	14	594	14	605	12.5	583
Dose	(5)	(226)	(4)	(177)	(4)	(171)	(4)	(173)	(4)	(159)	(4.9)	(168)
Median Exp (days)	15	15	29	29	56	57	85	85	168	169	337.0	336.0
	RIS	QTP	RIS	QTP	RIS	QTP	RIS	QTP	RIS	QTP	RIS	QTP
	N=361	N=358	N=466	N=477	N=408	N=392	N=295	N=284	N=190	N=171	N=34	N=37
Mean (SD)	84.9	82.7	80.5	78.7	80.1	78.3	74.2	73.6	74.1	74.7	81.2	77.1
Wt at BL	(20.3)	(21.1)	(19.7)	(19.8)	(19.4)	(19.7)	(16.4)	(16.6)	(17.1)	(15.8)	(19.9)	(21.8)
Mean (SD)	86.6	84.2	82.3	80.3	82.1	80.3	76.9	76.3	78.3	78.8	87.2	84.2
Wt at EOT	(20.3)	(21.1)	(19.7)	(19.8)	(19.0)	(19.9)	(16.0)	(16.9)	(17.1)	(16.6)	(21.7)	(28.3)
Mean (SD)	1.6	1.5	1.8	1.5	2.0	1.9	2.7	2.7	4.2	4.1	6.0	7.1
Wt Change	(4.4)	(4.9)	(3.2)	(4.6)	(3.7)	(5.6)	(3.8)	(4.5)	(5.6)	(6.5)	(10.7)	(11.3)
p-value	0.674	-	0.287	-	0.791	-	0.982	-	0.733	-	0.692	-
Modal (SD)	5	593	5	599	5	609	5	561	4	605	2.3	583
Dose	(2)	(203)	(2)	(180)	(2)	(173)	(2)	(180)	(2)	(159)	(0.9)	(168)
Median Exp	15	15	28	28	56	56	84	84	169	169	336.0	337
(days)												
	HAL	QTP	HAL	QTP	HAL	QTP	HAL	QTP	HAL	QTP	HAL	QTP
	N= 219	N=311	N=220	N=299	N=241	N=300	N= 90	N=187	N=17	N=75	N=6	N=18
Mean (SD)	69.1	73.2	68.1	72.6	70.1	72.8	75.6	78.3	82.3	80.0	72.0	74.7
Wt at BL	(15.8)	(18.8)	(15.0)	(18.1)	(16.6)	(17.5)	(17.9)	(18.0)	(20.3)	(17.8)	(13.2)	(14.4)
Mean (SD) Wt at EOT	68.6 (15.5)	73.4 (18.7)	67.7 (14.7)	73.2 (17.9)	70.5 (16.2)	74.4 (17.6)	75.7 (16.4)	80.8 (17.7)	80.7 (18.3)	84.0 (18.6)	72.9 (12.2)	8.9 (13.8)
Mean (SD)	-0.5	0.1	-0.4	0.7	0.4	1.6	0.1	2.5	-1.7	3.9	1.0	7.2
Wt Change	(2.7)	(3.0)	(2.2)	(2.7)	(3.8)	(4.3)	(3.7)	(5.2)	(6.1)	(8.0)	(5.6)	(9.4)
p-value	0.086	-	< 0.001	-	0.002	-	0.001	0	-	-	0.047	0.110
Modal (SD)	8	385	9	402	13	467	8	421	12	353	13	396
Dose	(4.2)	(240)	(4.4)	(234)	(7)	(206)	(4.1)	(231)	(2)	(219	(3)	(204)
Median Exp (days)	14	14	28	28	56	56	84	84	169	168	336.0	336
/	CHL	QTP	CHL	QTP	CHL	QTP	CHL	QTP	-	-	-	-
	N = 103	N = 93	N = 95	N = 93	N = 20	N=22	N =129	N =122				
Mean (SD)	68.8	69.3	68.9	68.4	73.7	77.3	75.8	74.3	-	-	-	-
Wt at BL	(13.6)	(13.8)	(13.7)	(13.6)	(16.5)	(15.6)	(16.0)	(15.3)				

Mean (SD)	69.3	70.4	70.1	69.7	75.5	76.3	76.8	75.9	-	-	-	-
Wt at EOT	(13.0)	(13.4)	(13.2)	(13.3)	(17.0)	(15.5)	(15.8)	(16.1)				
Mean (SD)	0.6	1.0	1.2	1.2	1.8	-1.0	1.0	1.6	-	-	-	-
Wt Change	(2.4)	(2.5)	(3.1)	(3.2)	(3.7)	(5.3)	(4.4)	(4.5)				
p-value	0.211	-	0.861	-	0.106	-	0.303		-	-	-	-
Modal (SD)	455	481	504	482	840	600	728	603	-	-	-	-
Dose	(167)	(148)	(175)	(145)	(123)		(157)	(19)				
Median	14	14	28	28	62	56	70	70	-	-	-	-
Exp (days)												

Information obtained from Sponsor table 22, 28, 34 and 40 in Clinical Study Report baseline assessment QTP- quetiapine, CHL - Chlorpromazine, OlZ - olanzapine, RIS - risperidone, HAL - haloperidol

4. Mean BMI Change (kg/m^2)

The olanzapine-treated subjects had a mean increase in BMI (kg/m²) from baseline of 2.0 kg/ m² at a modal olanzapine dose of 14 mg per Day, compared to 1.1 kg/ m² in quetiapine-treated subjects with a median exposure of 168 days. As can be seen in table 18 below for mean BMI change observed in the risperidone, chlorpromazine and haloperidol groups, the greatest mean increase was seen in the olanzapine treated group for all BMI categories while similar mean changes were noted in other antipsychotic treatment groups including quetiapine.

Table 18: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (comparator-controlled trials)

	QTP N = 294	OLZ N =286	QTP N =676	RIS N =659	QTP N =249	CHL N =250	QTP N =804	HAL N =515
Mean (SD) BMI at BL	25 (5)	25.2 (5.2)	26.7 (6.4)	27.2 (6.6)	25.6(5.5)	25.2 (5.1)	26.4(5.3)	25.7(5.1)
Mean (SD) BMI at EOT	26 (5)	27.2 (5.9)	27.4 (6.5)	28.0 (6.3)	26.0(5.4)	25.7 (5.2)	26.8(5.3)	25.7(5.0)
Mean (SD) BMI Change	1.1(2.2)	2.0 (2.7)	0.7 (2.2)	0.8 (2.3)	0.4(1.4)	0.5(2.2)	0.4(1.8)	0.0(1.4)
p-value	< 0.001	-	0.565	-	0.716	-	< 0.001	-
Modal (SD) Dose	562 (192)	14 (5)	555	5	539 (139)	563 (194)	445 (233)	10 (5)
Median Exposure (days)	168	168	56	56	49.0	51	42	42

Information obtained from Sponsor table 23, 29, 35 and 41 in Clinical Study Report QTP- quetiapine, CHL - Chlorpromazine, OIZ – olanzapine, RIS - risperidone, HAL – haloperidol

5. *Mean BMI Change by BMI Category*

The mean BMI change by baseline BMI category was an increase of 2.2, 2.0, 1.9 and 2.3 kg/ $\rm m^2$, for olanzapine–treated subjects; an increase of 1.3,1.0, 1.1 and 1.3 kg/ $\rm m^2$ for quetiapine–treated subjects for underweight (BMI< 18.5), normal weight (BMI 18.5-25), overweight (BMI 25-30) and obese (BMI > 30) groups, respectively. See table 19 below for mean BMI change (by BMI Category) observed in the quetiapine group compared to the olanzapine, risperidone, chlorpromazine and haloperidol groups.

Table 19: BMI (kg/m2) - change from baseline (BL) to end of treatment (EOT) by BMI category (comparator-controlled trials)

BMI category (kg/m2)	QTP	OLZ	QTP	RIS	QTP	CHL	QTP	HAL
						·	·	
Underweight BMI ≤ 18.5 (N)	19	18	29	23	10	13	20	-
Mean (SD) BMI at BL	17.2 (1.1)	17.7(0.8)	17.2(1.1)	17.5(0.9)	17.9(0.6)	17.4(1.5)	17.5(0.6)	17.3(0.9)
Mean (SD) BMI at EOT	18.5 (2.3)	19.8(2.2)	18.4(1.9)	19.3(1.3)	18.7(1.0)	17.9(1.9)	17.9(1.5)	18.3(1.1)
Mean (SD) BMI Change	1.3(1.8)	2.2(1.9)	1.2 (1.6)	1.7(1.3)	0.8(1.1)	0.5(10)	0.4(1.2)	1.0(1.1)
p-value	0.155	-	0.191	-	0.166	-	0.168	-
Modal (SD) Dose (mg)	542 (186)	16(4)	528(205)	5	495(157)	546(217)	488(196)	12(4)
Median Exp (days)	168	168	58	163	44	42	42	42
Normal weight BMI 18.5 to 25(N)	143	140	281	264	125	124	344	
Mean (SD) BMI at BL	22.0(1.7)	22.2(1.7)	22.3(1.8)	22.3(1.8)	17.9(0.6)	17.4(1.5)	22.3(1.7)	22.1(1.8)
Mean (SD) BMI at EOT	23.1 (2.7)	24.2(2.8)	23.0(2.4)	23.3(2.3)	18.7(1.0)	17.9(1.9)	23.0(2.2)	22.4(2.0)
Mean Modal (SD) BMI Change	1.0 (2.0)	2.0 (2.3)	0.8 (1.8)	1.1(1.5)	0.8(1.1)	0.5(1.0)	0.7(1.6)	0.3(1.1)
p-value	< 0.001	-	0.028	-	0.166	-	0.002	-

Modal (SD) Dose (mg)	558 (198)	14 (4)	553	5	495(157)	546(217)	466(227)	10 (5)
Median Exp (days)	164	168	57	70	42	42	42	42
Overweight BMI 25 to 30 (N)	84	85	203	184	63	72	270	162
Mean (SD) BMI at BL	27.2 (1.5)	27.2(1.5)	27.2(1.5)	27.2(1.3)	27.3(1.4)	27.1(1.3)	27.3(1.4)	27.2(1.4)
Mean (SD) BMI at EOT	28.4 (2.6)	29.2(3.2)	27.9(2.2)	28.1(2.3)	27.7(2.0)	27.4(1.8)	27.7(2.3)	27.0(2.0)
Mean (SD) BMI Change	1.1 (2.3)	1.9 (3.0)	0.8 (1.9)	0.8(2.0)	0.3(1.4)	0.3(1.3)	0.4(1.9)	-0.2(1.3)
p-value	0.018	-	0.866	-	0.769	-	0.005	-
Modal (SD) Dose (mg)	571 (187)	14(5)	553	5.0	566(110)	576(188)	442(236)	10(5)
Median Exp (days)	168	168	56	56	69	69	42	42
Obese BMI \geq 30 (N)	48	43	163	188	51	41	170	97
Mean (SD) BMI at BL	33.2 (3.5)	34.1(5.3)	35.5(5.9)	35.4(5.7)	33.9(4.5)	33.9(3.5)	34.2(4.3)	33.8(3.3)
Mean (SD) BMI at EOT	34.5 (5.1)	36.4(6.4)	36.0(6.3)	35.6(5.4)	33.9(4.6)	33.6(4.0)	34.2(4.6)	33.3(3.8)
Mean Modal (SD) BMI Change	1.3 (2.7)	2.3 (3.8)	0.5 (3.0)	0.2(3.4)	0.0(1.7)	-0.3(2.0)	0.0(1.8)	-0.5(1.9)
p-value	0.146	-	0.499	-	0.347	-	0.138	-
Modal (SD) Dose (mg)	569(188)	15 (5)	563(205)	5(2)	563(108)	593(180)	403(242)	11 (5)
Median Exp (days)	168	168	56	56	65	69	42	42

Information obtained from Sponsor tables 24, 30, 36 and 42 in Clinical Study Report QTP- quetiapine, CHL - Chlorpromazine, OIZ - olanzapine, RIS - risperidone, HAL - haloperidol

5.2.2 Categorical Analyses

1. Weight Gain Outliers in olanzapine-controlled trials

In a pooled analysis of olanzapine-controlled trials, 47%, 21% and 11% of olanzapine-treated subjects had a mean weight gain of > 0-5 kg (0-11 lb) at a modal olanzapine dose of 11 mg per Day, compared to 65%, 30 % and 14% of quetiapine- treated subjects had a mean weight gain of > 0-5 kg (0-11 lb) at a modal quetiapine dose of 569 mg per Day at 6 week, 6 month and 12 month time-points. For the outlier analysis of the higher weight categories of >5 kg, the proportion of subjects increases with over time for both in the quetiapine and olanzapine treated groups.

Table 20: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials)

		QTP			OLZ	
	6 Weeks N = 106	6 Months N = 116	12 Months N = 37	6 Weeks N = 112	6 Months N = 119	12 Months N = 44
Weight change	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)
≤0	19 (17.9)	35 (30.2)	12 (32.4)	14 (12.5)	17 (14.3)	4 (9.1)
0 to ≤5 (0-11 lb)	69 (65.1)	34 (29.3)	5 (13.5)	53 (47.3)	25 (21.0)	5 (11.4)
>5 to ≤10 (11-22 lb)	16 (15.1)	21 (18.1)	8 (21.6)	31 (27.7)	33 (27.7)	10 (22.7)
>10 to ≤15 (22-33 lb)	2 (1.9) 20	20 (17.2)	4 (10.8)	12 (10.7)	21 (17.6)	11 (25.0)
>15 to ≤20 (33-44 lb)	0	6 (5.2)	4 (10.8)	2 (1.8)	13 (10.9)	4 (9.1)
>20 to ≤25 (44-55 lb)	0	0	3 (8.1)	0	4 (3.4)	5 (11.4)
>25 to ≤30 (55-66 lb)	0	0	1 (2.7)	0	6 (5.0)	5 (11.4)
				•		
Modal (SD) Dose in mg	569 (192)			13 (5)		
Median Exp (days)	170			172		

Information obtained from Sponsor tables 25, 31, 37, and 43 in Clinical Study Report, OlZ – olanzapine

2. Weight Gain Outliers in risperidone-controlled trials

In a pooled analysis of risperidone-controlled trials, 52%, 42% and 28% of risperidone-treated subjects had a mean weight gain of > 0-5 kg (0-11 lb) at a mean risperidone dose of 5 mg per Day, compared to 56%, 29 % and 13% of quetiapine-treated subjects had a mean weight gain of

> 0-5 kg (0-11 lb) at a mean quetiapine dose of 599 mg per Day at 6 week, 6 and 12 month intervals. Although the same sizes were noted to be small, for the outlier analysis of the higher weight categories of >5 kg, the proportion of subjects seems to increase over time for both in the quetiapine and risperidone treated groups.

Table 21: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (comparator-controlled trials)

		QTP			RIS	
	6 Wks	6 Mths	12 Mths	6 Wks	6 Mths	12 Mths
	N = 275	N = 116	N = 37	N = 307	N = 117	N = 36
Weight change	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)
≤0	74 (26.9)	35 (30.2)	12 (32.4	92 (30.0)	21 (17.9)	7 (19.4)
0 to ≤5 (0-11 lb)	154 (56.0)	34 (29.3)	5 (13.5)	160 (52.1)	49 (41.9)	10 (27.8)
>5 to ≤10 (11-22 lb)	40 (14.5)	21 (18.1)	8 (21.6)	50 (16.3)	29 (24.8)	7 (19.4)
>10 to ≤15 (22-33 lb)	6 (2.2)	20 (17.2)	4 (10.8)	3 (1.0)	11 (9.4)	5 (13.9)
>15 to ≤20 (33-44 lb)	1 (0.4)	6 (5.2)	4 (10.8)	1 (0.3)	5 (4.3)	5 (13.9)
>20 to ≤25 (44-55 lb)	0	0	3 (8.1)	0	0	0
>25 to ≤30 (55-66 lb)	0	0	1 (2.7)	1 (0.3)	2 (1.7)	2 (5.6)
Modal (SD) Dose in mg	599 (188)			5 (2)		
Median Exp (days)	43			43		

Information obtained from Sponsor tables 25, 31, 37, and 43 in Clinical Study Report, RIS – risperidone

3. Weight Gain Outliers in chlorpromazine-controlled trials

In a pooled analysis of chlorpromazine-controlled trials, the proportions of patients with weight gain for each category was noted to be similar between the chlorpromazine-treated subjects and the quetiapine-treated subjects at week 6.

Table 22: Proportion of Patients with Weight (in kg) Change at Week 6 (comparator-controlled trials)

Chlorpromazine	QTP $(N = 168)$	$\mathbf{CHL}(\mathbf{N} = 161)$
Weight change (kg)	N (%)	N (%)
≤0	60(35.7)	63(39.1)
0 to ≤5 (0-11 lb)	86(51.2)	79(49.1)
>5 to ≤10 (11-22 lb)	19(11.3)	16 (9.9)
>10 to ≤15 (22-33 lb)	2 (1.2)	2 (1.2)
>15 to ≤20 (33-44 lb)	1 (0.6)	0
>20 to ≤25 (44-55 lb)	0	0
Modal (SD) Dose (mg)	538.2(115.7)	545.3(120.1)
Median Exposure (days)	42.0	42.0

Information obtained from Sponsor tables 25, 31, 37 and 43 in Clinical Study Report QTP- quetiapine, CHL -Chlorpromazine

4. Weight Gain Outliers in haloperidol-controlled trials

In a pooled analysis of haloperidol -controlled trials, 40%, 46% and 35% of haloperidol -treated subjects had a mean weight gain of > 0-5 kg (0-11 lb) at a modal haloperidol dose of 9 mg per Day, compared to 45%, 37 % and 31% of quetiapine- treated subjects had a mean weight gain of > 0-5 kg (0-11 lb) at a modal quetiapine dose of 449 mg per Day at 6 week, 6 and 12 month intervals. For the outlier analysis of the higher weight categories of >5-10, and >10-15 kg, the proportion of subjects seems to be increased over time in the quetiapine treated group.

Table 23: Proportion of Patients with	Weight (in kg) Change at 6	Weeks, 6 and 12 Months (co	omparator-controlled trials)

		QTP			HAL	
	6 Weeks N = 420	6 Months N = 57	12 Months N = 73	6 Weeks N = 307	6 Months N = 11	12 Months N = 52
Weight change	N (%)	N (%)	N (%)	N – 307 N (%)	N - 11	N (%)
≤0	156 (37.1)	11 (19.3)	20 (27.4)	168 (54.7)	5 (45.5)	22 (42.3)
0 to ≤5 (0-11 lb)	190 (45.2)	21 (36.8)	23 (31.5)	124 (40.4)	5 (45.5)	18 (34.6)
>5 to ≤10 (11-22 lb)	64 (15.2)	20 (35.1)	13 (17.8)	15 (4.9)	1 (9.1)	9 (17.3)
>10 to ≤15 (22-33 lb)	9 (2.1)	3 (5.3)	12 (16.4)	0	0	1 (1.9)
>15 to ≤20 (33-44 lb)	1 (0.2)	0	0	0	0	1 (1.9)
>20 to ≤25 (44-55 lb)	0	0	4 (5.5)	0	0	0
>25 to ≤30 (55-66 lb)	0	2 (3.5)	1 (1.4)	0	0	1 (1.9)
Modal (SD) Dose	449 (228)			9 (5)		
Median Exp (days)	43			43		

Information obtained from Sponsor tables 25, 31, 37 and 44 in Clinical Study Report EOT – end of treatment, PLA - placebo, QTP- quetiapine, HAL – haloperidol

5.3 Adult Subjects in Long Term Controlled and Uncontrolled Trials

5.3.1 Mean Change Analyses

1. Mean Body Weight Change

The quetiapine-treated subjects (N = 17515) who received a mean daily dose of 397 mg, gained an average of 1.3 kg (2.9 lbs) with a median exposure of 61 days.

Table 24: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (all QTP trials)

	QTP $(N = 17515)$
Mean (SD) Weight at BL	77.9 (20.3)
Mean (SD) Weight at EOT	79.3 (20.5)
Mean (SD) Weight Change	1.3 (4.6)
Modal (SD) Dose (mg)	397.3 (241.5)
Median Exposure (days)	61

Information obtained from Sponsor table 44 in Clinical Study Report

2. Mean Body Weight Change by BMI Category

The mean weight gain by baseline BMI category was 2.3 kg, 1.7 kg, 1.2 kg and 0.8 kg for quetiapine—treated subjects for underweight (BMI < 18.5), normal weight (BMI 18.5-25), overweight (BMI 25-30) and obese (BMI > 30) groups, respectively.

Table 25: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials)

BMI category (kg/m2)		QTP
Underweight BMI ≤ 18.5	N	570
	Mean (SD) Weight at BL	48.5 (6.9)
	Mean (SD) Weight at EOT	50.8 (8.1)
	Mean (SD) Weight Change	2.3 (4.0)
	Modal (SD) Dose (mg)	459.9 (238.6)
	Median Exposure (days)	68
Normal weight BMI 18.5 to 25	N	6088
	Mean (SD) Weight at BL	63.9 (9.2)
	Mean (SD) Weight at EOT	65.6 (9.9)
	Mean (SD) Weight Change	1.7 (4.1)
	Modal (SD) Dose (mg)	410.1 (242.6)
	Median Exposure (days)	64

Overweight BMI 25 to 30	N	4932
	Mean (SD) Weight at BL	79.1 (10.0)
	Mean (SD) Weight at EOT	80.3 (10.8)
	Mean (SD) Weight Change	1.2 (4.5)
	Modal (SD) Dose (mg)	394.3 (243.0)
	Median Exposure (days)	63
Obese BMI ≥30	N	4673
	Mean (SD) Weight (kg) at BL	100.8 (18.4)
	Mean (SD) Weight (kg) at EOT	101.6 (18.9)
	Mean (SD) Weight (kg) Change	0.8 (5.1)
	Modal (SD) Dose (mg)	380.7 (244.6)
	Median Exposure (days)	57

Information obtained from Sponsor table 45 in Clinical Study Report

3. Mean Body Weight Change by Time (in Weeks)

The mean weight gain from baseline to endpoint for quetiapine—treated subjects was 0.8 kg, 1.0 kg, 1.3 kg, 1.5 kg, 2.2 kg and 3.1 kg (0.8 to 6.8 lbs) at the 2, 4, 8, 12, 24 and 48 weeks interval, respectively.

Table 26: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (all OTP trials)

- 100 - 100						
	Wk 2	Wk 4	Wk 8	Wk 12	Wk 24	Wk 48
Seroquel = N	5865	8800	7884	6025	1659	383
Mean (SD) Weight at BL	77.7 (21.0)	76.5 (20.4)	76.8 (20.4)	75.8(19.8)	74.1 (17)	75.1 (18)
Mean (SD) Weight at EOT	78.5 (21.1)	77.4 (20.4)	78.1(20.5)	77.3 (19.8)	76.4 (18)	78.2 (19)
Mean (SD) Weight Change	0.8 (2.7)	1.0 (3.2)	1.3 (3.7)	1.5 (4.4)	2.2(5)	3.1 (7.9)
Modal (SD) Dose (mg)	373(246)	448 (252)	413 (235)	451(254)	478 (23)	427 (222)
Median Exposure (days)	15	29	57	85	169	337

Information obtained from Sponsor table 46 in Clinical Study Report

4. Mean BMI Change (kg/m2)

The quetiapine-treated subjects (N = 16263) had a mean increase in BMI (kg/m²) from baseline of 0.5 kg/m² at a modal quetiapine dose of 399 mg per Day with a median exposure of 62 days.

Table 27: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (all QTP trials)

	QTP (N = 16263)
Mean (SD) BMI at BL	27.5 (6.7)
Mean (SD) BMI at EOT	28.0 (6.7)
Mean (SD) BMI Change	0.5 (1.6)
Modal (SD) Dose (mg)	398.6 (243.7)
Median Exposure (days)	62

Information obtained from Sponsor table 47 in Clinical Study Report

5. Mean BMI Change by BMI Category

The mean BMI change by baseline BMI category was 0.8, 0.6, 0.4 and 0.3 kg/ m², for quetiapine–treated subjects for underweight (BMI < 18.5), normal weight (BMI 18.5-25), overweight (BMI 25-30) and obese (BMI > 30) groups, respectively. A decreasing trend was observed here.

Table 28: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (all QTP trials)

BMI category (kg/m2)		QTP
Underweight BMI ≤ 18.5	N	570
	Mean (SD) BMI at BL	17.3 (1.2)
	Mean (SD) BMI at EOT	18.1 (1.9)
	Mean (SD) BMI Change	0.8 (1.5)

	Modal (SD) Dose (mg)	459.9 (238.6)
	Median Exposure (days)	68
Normal weight BMI 18.5 to 25	N	6088
	Mean (SD) BMI at BL	22.3 (1.7)
	Mean (SD) BMI at EOT	22.9 (2.2)
	Mean (SD) BMI Change	0.6 (1.4)
	Modal (SD) Dose (mg)	410.1 (242.6)
	Median Exposure (days)	64
Overweight BMI 25 to 30	N	4932
	Mean (SD) BMI at BL	27.3 (1.4)
	Mean (SD) BMI at EOT	27.7 (2.1)
	Mean (SD) BMI Change	0.4 (1.6)
	Modal (SD) Dose (mg)	394.3 (243.0)
	Median Exposure (days)	63
Obese BMI ≥ 30	N	4673
	Mean (SD) BMI at BL	35.8 (5.7)
	Mean (SD) BMI at EOT	36.0 (5.9)
	Mean (SD) BMI Change	0.3 (1.8)
	Modal (SD) Dose (mg)	380.7 (244.6)
	Median Exposure (days)	57

Information obtained from Sponsor table 48 in Clinical Study Report

5.3.2 Categorical Analyses

1. Weight Gain Outliers

In a pooled analysis of all quetiapine trials 53%, 42%, 35%, 28% and 23% had a mean weight gain of > 0-5 kg (0-11 lb) at a mean quetiapine dose of 405 mg per Day at Week 6 and at 6, 12, 24 and 36 months interval, respectively.

Table 29: Proportion of Patients with Weight Change at 6 Weeks, 6, 12, 24 and 36 Months (all QTP trials)

QTP	6 Weeks	6 Months	12 Months	24 Months	36 Months
	N = 5703	N = 1531	N = 900	N = 229	N = 148
Weight change (kg)	N (%)	N (%)	N (%)	N (%)	N (%)
≤0	2117 (37.1)	562 (36.7)	314 (34.9)	60 (26.2)	32 (21.6)
0 to ≤5 (0-11 lb)	3043 (53.4)	636 (41.5)	311 (34.6)	64 (27.9)	34 (23.0)
>5 to ≤10 (11-22 lb)	467 (8.2)	212 (13.8)	147 (16.3)	47 (20.5)	34 (23.0)
>10 to ≤15 (22-33 lb)	61 (1.1)	89 (5.8)	77 (8.6)	28 (12.2)	24 (16.2)
>15 to ≤20 (33-44 lb)	9 (0.2)	22 (1.4)	24 (2.7)	20 (8.7)	13 (8.8)
>20 to ≤25 (44-55 lb)	2 (0.0)	4 (0.3)	20 (2.2)	2 (0.9)	6 (4.1)
>25 to ≤30 (55-66 lb)	4 (0.1)	6 (0.4)	7 (0.8)	8 (3.5)	5 (3.4)
Modal (SD) Dose	405.0 (235.6)				
Median Exp (days)	43				

Information obtained from Sponsor table 49 in Clinical Study Report

5.4 Antipsychotic-Naïve Subjects in Placebo-Controlled Trials

5.4.1 Mean Change Analyses

1. Mean Body Weight Change

The quetiapine-treated subjects (N = 2410) who received a modal daily dose of 167 mg, gained an average of 1.0 kg (2.2 lbs), compared to an increase of 0.3 kg (0.7 lbs) in placebo-treated subjects (N = 1141) with a median exposure of 49-55 days.

Table 30: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials)

Table bot Weight (in kg)	enange ir om basenne (BE) to ena or treatment ((201) (harve subjects, placebo controlled trials)
	QTP $(N = 2410)$	Placebo (N = 1141)

Mean (SD) Weight at BL	80.2 (20.8)	80.7 (22.2)
Mean (SD) Weight at EOT	81.2 (20.9)	81.0 (22.3)
Mean (SD) Weight Change	1.0 (2.4)	0.3 (3.9)
p-value	< 0.001	-
Modal (SD) Dose (mg)	176.0 (116.3)	-
Median Exposure (days)	49	55

Information obtained from Sponsor table 64 in Clinical Study Report

2. Mean Body Weight Change by BMI Category

The mean weight gain by baseline BMI category was 1.2 kg, 1.1 kg, 1.1 kg and 0.8 kg, for quetiapine–treated subjects and 0.8 kg, 0.5 kg, 0.2 kg and 0.2 kg for placebo–treated subjects for underweight (BMI < 18.5), normal weight (BMI 18.5-25), overweight (BMI 25-30) and obese (BMI > 30) groups, respectively.

Table 31: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials)

BMI category (kg/m2)		QTP	Placebo
Underweight BMI ≤ 18.5	N	64	40
	Mean (SD) Weight at BL	48.8 (7.1)	47.7 (7.1)
	Mean (SD) Weight at EOT	50.0 (7.5)	48.5 (7.9)
	Mean (SD) Weight Change	1.2 (1.8)	0.8 (2.9)
	p-value	0.423	=
	Modal (SD) Dose (mg)	222.7 (190.4)	=
	Median Exposure (days)	56	54
Normal weight BMI 18.5 to 25	N	822	357
	Mean (SD) Weight at BL	63.5 (8.9)	62.9 (8.7)
	Mean (SD) Weight at EOT	64.6 (9.2)	63.4 (9.7)
	Mean (SD) Weight Change	1.1 (2.1)	0.5 (4.5)
	p-value	0.004	-
	Modal (SD) Dose (mg)	177.6 (131.6)	-
	Median Exposure (days)	50	55
Overweight BMI 25 to 30	N	717	358
	Mean (SD) Weight at BL	78.8 (10.2)	79.1 (10.2)
	Mean (SD) Weight at EOT	79.9 (10.6)	79.4 (10.3)
	Mean (SD) Weight Change	1.1 (2.3)	0.2 (2.2)
	p-value	< 0.001	-
	Modal (SD) Dose (mg)	170.0 (100.7)	-
	Median Exposure (days)	49	55
Obese BMI ≥30	N	805	384
	Mean (SD) Weight at BL	100.9 (18.1)	102.1 (20.3)
	Mean (SD) Weight at EOT	101.7 (18.4)	102.3 (20.5)
	Mean (SD) Weight Change	0.8 (2.7)	0.2 (4.6)
	p-value	0.005	-
	Modal (SD) Dose (mg)	175.9 (103.5)	-
	Median Exposure (days)	49	55

Information obtained from Sponsor table 65 in Clinical Study Report

3. Mean Body Weight Change by Time (in Weeks)

The mean weight gain from baseline to endpoint for quetiapine—treated subjects showed 0.8 kg, 0.9 kg, 1.0 kg, and 0.3 kg and for placebo-treated subjects showed 0.2 kg, 0.2 kg, 0.3 kg, and 0.5 kg at 2, 4, 8, and 12 weeks, respectively.

Table 32: Weight (in kg) - change from baseline to end of treatment by week (naïve subjects, placebo-controlled trials)

	Wk 2	Wk 4	Wk 8	Wk 12
Quetiapine= N	2017	1925	1099	8
Mean (SD) Weight at Baseline	80.5 (21.0)	80.1 (20.8)	78.8 (20.5)	80.9 (16.0)
Mean (SD) Weight at EOT	81.2 (21.0)	81.0 (20.8)	79.8 (20.6)	81.2 (14.8)
Mean (SD) Weight Change	0.8 (1.8)	0.9 (2.4)	1.0 (2.6)	0.3 (2.8)
p-value	< 0.001	< 0.001	< 0.001	0.930
Modal (SD) Dose (mg)	180.7 (119.0)	180.9 (119.5)	161.4 (90.9)	162.5 (95.4)
Median Exposure (days)	15	29	57	70
Placebo= N	1024	977	635	3
Mean (SD) Weight at Baseline	80.7 (22.3)	80.7 (22.2)	80.0 (22.5)	94.6 (36.2)
Mean (SD) Weight at EOT	80.9 (22.3)	80.9 (22.2)	80.3 (22.5)	95.1 (35.4)
Mean (SD) Weight Change	0.2 (2.1)	0.2 (2.2)	0.3 (2.5)	0.5 (1.5)
p-value	-	-	-	-
Modal (SD) Dose (mg)	-	-	-	-
Median Exposure (days)	15	29	57	71

Information obtained from Sponsor table 66 in Clinical Study Report

4. Mean BMI Change (kg/m^2)

The quetiapine-treated subjects (N = 2408) had a mean increase in BMI (kg/m²) from baseline of 0.4 kg/m² at a modal quetiapine dose of 176 mg per Day, compared to 0.1 kg/m² in placebotreated subjects (N = 1139) with a median exposure of 49-55 days.

Table 33: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials)

	QTP (N = 2408)	Placebo (N = 1139)
Mean (SD) BMI at BL	28.2 (7.0)	28.5 (7.4)
Mean (SD) BMI at EOT	28.6 (7.0)	28.6 (7.5)
Mean (SD) BMI Change	0.4 (0.8)	0.1 (1.4)
p-value	<0.001	-
Modal (SD) Dose (mg)	176.0 (116.3)	-
Median Exposure (days)	49	55

Information obtained from Sponsor table 47 in Clinical Study Report

5. *Mean BMI Change by BMI Category*

The mean BMI change by baseline BMI category showed 0.4, 0.4, 0.4 and 0.3 kg/ m², for quetiapine–treated subjects and showed 0.3, 0.2, 0.1 and 0.1 kg/ m² for placebo–treated subjects for underweight (BMI < 18.5), normal weight (BMI 18.5-25), overweight (BMI 25-30) and obese (BMI > 30) groups, respectively.

Table 34: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, placebo-controlled trials)

BMI category (kg/m2)	tegory (kg/m2)		Placebo	
Underweight BMI ≤ 18.5	N	64	40	
	Mean (SD) BMI at BL	17.4 (1.0)	17.6 (0.7)	
	Mean (SD) BMI at EOT	17.8 (1.3)	17.9 (1.3)	
	Mean (SD) BMI Change	0.4 (0.6)	0.3 (1.0)	
	p-value	0.459	-	
	Modal (SD) Dose (mg)	222.7 (190.4)	-	
	Median Exposure (days)	56	54	
Normal weight BMI 18.5 to 25	N	822	357	
	Mean (SD) BMI at BL	22.2 (1.8)	22.2 (1.8)	
	Mean (SD) BMI at EOT	22.6 (1.9)	22.4 (2.3)	
	Mean (SD) BMI Change	0.4 (0.7)	0.2 (1.6)	
	p-value	0.002	-	
	Modal (SD) Dose (mg)	177.6 (131.6)	-	

	Median Exposure (days)	50	55
Overweight BMI 25 to 30	N	717	358
	Mean (SD) BMI at BL	27.3 (1.4)	27.3 (1.4)
	Mean (SD) BMI at EOT	27.7 (1.6)	27.4 (1.6)
	Mean (SD) BMI Change	0.4 (0.8)	0.1 (0.8)
	p-value	< 0.001	-
	Modal (SD) Dose (mg)	170.0 (100.7)	-
	Median Exposure (days)	49	55
Obese BMI ≥ 30	N	805	384
	Mean (SD) BMI at BL	36.0 (5.7)	36.6 (6.5)
	Mean (SD) BMI at EOT	36.3 (5.8)	36.7 (6.6)
	Mean (SD) BMI Change	0.3 (1.0)	0.1 (1.6)
	p-value	0.003	-
	Modal (SD) Dose (mg)	175.9 (103.5)	-
	Median Exposure (days)	49	55

Information obtained from Sponsor table 68 in Clinical Study Report

5.4.2 Categorical Analyses

1. Weight Gain Outliers

Among quetiapine-treated subjects (N = 1677) 62% had a mean weight gain of > 0.5 kg (0-11 lb) at a mean quetiapine dose of 180 mg per Day, compared to 52% had a mean weight gain of > 0.5 kg (0-11 lb) in the placebo-controlled subjects (N = 881) at Week 6.

Table 35: Proportion of Patients with Weight Change at Week 6 (naïve subjects, placebo-controlled trials)

	QTP (N = 1677)	Placebo (N = 881)
Weight change (kg)	N (%)	N (%)
≤0	556 (33.2)	420 (47.7)
0 to ≤5 (0-11 lb)	1044 (62.3)	454 (51.5)
>5 to ≤10 (11-22 lb)	71 (4.2)	4 (0.5)
>10 to ≤15 (22-33 lb)	5 (0.3)	1 (0.1)
>15 to ≤20 (33-44 lb)	0	1 (0.1)
>20 to ≤25 (44-55 lb)	0	0
>25 to ≤30 (55-66 lb)	1 (0.1)	1 (0.1)
Modal (SD) Dose (mg)	180 (119)	-
Median Exposure (days)	43	43

Information obtained from Sponsor table 69 in Clinical Study Report

5.5 Antipsychotic-Naïve Subjects in Comparator-Controlled Trials

5.5.1 Mean Change Analyses

1. Mean Body Weight Change (in Kg)

The olanzapine-treated subjects (N = 65) gained an average of 8.8 kg (19 lbs) at a mean olanzapine dose of 12 mg per Day, compared to a 4.5 kg (10 lbs) weight gain in antipsychotic naïve quetiapine-treated subjects (N = 67) with a median exposure of 179-238 days.

The risperidone-treated subjects (N = 62) gained an average of 5.4 kg (12 lbs) at a mean olanzapine dose of 12 mg per Day, compared to a 4.5 kg (10 lbs) weight gain in antipsychotic naïve quetiapine-treated subjects (N = 67) with a median exposure of 150-238 days.

Table 36: Weight (in Kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials)

	QTP $(N = 65)$	OLZ $(N = 67)$	$\mathbf{QTP} (N = 65)$	RIS $(N = 62)$
Mean (SD) Wt at BL	77.2 (19.2)	79.2 (22.0)	77.2 (19.2)	79.1 (20.4)
Mean (SD) Wt at EOT	81.7 (22.7)	88.1 (23.1)	81.7 (22.7)	84.5 (21.4)
Mean (SD) Wt Change	4.5 (7.9)	8.8 (8.4)	4.5 (7.9)	5.4 (6.7)
p-value	0.003	-	0.505	-
Modal (SD) Dose (mg)	503 (210.0)	12 (5)	503 (210)	2 (1)
Median Exposure (days)	238	179	238	150

Information obtained from Sponsor tables 70 and 76 in Clinical Study Report

QTP- quetiapine, OIZ - olanzapine, RIS - risperidone

2. Mean Body Weight Change by BMI Category

The mean weight gain by baseline BMI category showed 14.5 kg, 7.6 kg, 12.5 kg and 7.0 kg, for olanzapine–treated subjects and showed 3.8 kg, 4.0 kg, 4.7 kg and 5.8 kg for antipsychotic naïve quetiapine-treated subjects for underweight (BMI < 18.5), normal weight (BMI 18.5-25), overweight (BMI 25-30) and obese (BMI > 30) groups, respectively.

The mean weight gain by baseline BMI category showed 9.1 kg, 5.2 kg, 4.1 kg and 7.8 kg, for risperidone—treated subjects and showed 3.8 kg, 4.0 kg, 4.7 kg and 5.8 kg for antipsychotic naïve quetiapine-treated subjects for underweight (BMI< 18.5), normal weight (BMI 18.5-25), overweight (BMI 25-30) and obese (BMI > 30) groups, respectively.

Table 37: Weight (in kg) - change from baseline to end of treatment by BMI category (naïve subjects, comparator-controlled trials)

BMI category (kg/m2)	QTP	OLZ	QTP	RIS
Underweight BMI $\leq 18.5 = N$	3	2	3	1
Mean (SD) Wt at BL	51.7 (8.6)	51.5 (2.2)	51.7 (8.6)	59.9
Mean (SD) Wt at EOT	55.5 (8.7)	66.0 (2.9)	55.5 (8.7)	68.9
Mean (SD) Wt Change	3.8 (3.0)	14.5 (0.6)	3.8 (3.0)	9.1
p-value	0.018	-	0.268	-
Modal (SD) Dose (mg)	433.3 (208.2)	10.0 (0.0)	433.3 (208.2)	2.0
Median Exposure (days)	367	235	367	139
Normal weight BMI 18.5 to 25 =N	33	38	33	30
Mean (SD) Wt at BL	65.8 (9.5)	69.1 (8.0)	65.8 (9.5)	67.3 (8.7)
Mean (SD) Wt at EOT	69.8 (11.4)	76.8 (10.2)	69.8 (11.4)	72.5 (9.2)
Mean (SD) Wt Change	4.0 (6.7)	7.6 (8.4)	4.0 (6.7)	5.2 (5.3)
p-value	0.050	-	0.448	-
Modal (SD) Dose (mg)	496.9 (197.5)	12.6	496.9 (197.5)	2.2 (0.9)
Median Exposure (days)	307	166	307	172
Overweight BMI 25 to 30 = N	16	15	16	17
Mean (SD) Wt at BL	85.0 (9.4)	87.3 (13.5)	85.0 (9.4)	81.4 (10.7)
Mean (SD) Wt at EOT	89.7 (14.2)	99.8 (14.6)	89.7 (14.2)	85.5 (11.2)
Mean (SD) Wt Change	4.7 (7.3)	12.5 (9.7)	4.7 (7.3)	4.1 (9.1)
p-value	0.017	-	0.852	-
Modal (SD) Dose (mg)	493.8 (235.1)	10.8 (4.5)	493.8 (235.1)	2.3 (1.1)
Median Exposure (days)	183	198	183	104
Obese BMI $> 30 = N$	13	11	13	11
Mean (SD) Wt at BL	102.4 (17.9)	110.4 (30.7)	102.4 (17.9)	110.9 (23.1)
Mean (SD) Wt at EOT	108.3 (27.1)	117.4 (32.2)	108.3 (27.1)	118.7 (24.1)
Mean (SD) Wt Change	5.8 (11.9)	7.0 (5.7)	5.8 (11.9)	7.8 (6.9)
p-value	0.774	-	0.633	-
Modal (SD) Dose (mg)	546.2 (225.9)	11.6 (6.4)	546.2 (225.9)	2.5 (0.9)
Median Exposure (days)	305	179	305	181

Information obtained from Sponsor tables 71 and 77 in Clinical Study Report, OIZ - olanzapine, RIS - risperidone

3. Mean Body Weight Change by Time (in Weeks)

Mean body weight increases over time of exposure for both active comparators and quetiapine treated antipsychotic naive patients. The magnitude of weight gain was relatively smaller in the quetiapine group compared to olanzapine or risperidone treatment in this population during the same treatment time points.

The mean weight gain from baseline to endpoint for olanzapine–treated subjects showed 2.7 kg, 4.1 kg, 6.3 kg, 7.8 kg, 11.2 kg, and 14.1 kg and for antipsychotic naïve quetiapine-treated subjects showed 1.4 kg, 2.3 kg, 3.9 kg, 4.2 kg, 5.2 kg and 7.9 kg at 2, 4, 8, 12, 24 and 48 weeks, respectively. The mean weight gain from baseline to endpoint for risperidone–treated subjects showed 1.2 kg, 2.1 kg, 3.4 kg, 3.9 kg, 6.4 kg, and 10.6 kg and for antipsychotic naïve quetiapine-treated subjects showed 1.4 kg, 2.3 kg, 3.9 kg, 4.2 kg, 5.2 kg, 7.9 kg at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 38: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (naïve subjects, comparator-controlled trials)

	Week 2		Week 4		Week 8	· · · · ·	Week 12		Week 24		Week 48	
Olanzapine	QTP	OLZ	QTP	OLZ	QTP	OLZ	QTP	OLZ	QTP	OLZ	QTP	OLZ
	N=56	N= 55	N=60	N=60	N=49	N=52	N=50	N=53	N= 36	N= 36	N=24	N=18
Mean (SD)	77.1	77.8	77.5	78.3	77.5	78.2	77.2	76.5	75.3	75.9	77.8	73.8
Wt at BL	(19.9)	(18.4)	(19.5)	(21.1)	(19.1)	(21.6)	(20.1)	(17.1)	(16.4)	(14.9)	(24.5)	(13.2)
Mean (SD)	78.5	80.5	79.8	82.3	81.4	84.5	81.5	84.3	80.5	87.0	85.7	87.8
Wt at EOT	(20.3)	(18.2)	(19.8)	(21.4)	(19.8)	(21.9)	(21.0)	(17.9)	(18.2)	(16.0)	(32.3)	(14.4)
Mean (SD)	1.4	2.7	2.3	4.1 (3.3)	3.9	6.3	4.2	7.8	5.2	11.2	7.9	14.1
Wt Change	(1.9)	(2.3)	(2.3)		(3.4)	(4.9)	(4.4)	(5.6)	(6.4)	(7.3)	(12.4)	(8.1)
modal (SD) Dose	0.002 518.2 (209.1)	12.4 (4.7)	<0.001 522.0 (203)	12.4 (4.9)	0.005 539.6 (202)	13.1 (4.7)	<0.001 540.8 (202)	12.8 (4.6)	<0.001 580.0 (184.4)	13.1 (4.8)	0.074 582.6 (178)	12.5 5(4.6)
Median Exp (days)	15	15	29	29	57	57	86	85	170	169	336	337
Risperidone	QTP	RIS	QTP	RIS	QTP	RIS	QTP	RIS	QTP	RIS	QTP	RIS
	N=56	N=52	N=60	N=58	N=49	N=46	N=50	N=41	N=36	N=23	N=24	N=13
Mean (SD)	77.1	81.7	77.5	80.0	77.5	79.9	77.2	79.9	75.3	80.4	77.8	84.4
Wt at BL	(19.9)	(20.7)	(19.5)	(20.7)	(19.1)	(18.1)	(20.1)	(18.7)	(16.4)	(19.9)	(24.5)	(21.0)
Mean (SD)	78.5	82.9	79.8	82.1	81.4	83.3	81.5	83.8	80.5	86.8	85.7	95.0
Wt at EOT	(20.3)	(20.7)	(19.8)	(21.3)	(19.8)	(18.4)	(21.0)	(18.9)	(18.2)	(19.4)	(32.3)	(22.7)
Mean (SD)	1.4	1.2	2.3	2.1	3.9	3.4	4.2	3.9	5.2	6.4	7.9	10.6
Wt Change	(1.9)	(1.8)	(2.3)	(2.6)	(3.4)	(3.7)	(4.4)	(4.2)	(6.4)	(6.4)	(12.4)	(8.5)
p-value	0.497	-	0.741	-	0.515	-	0.724	-	0.476	-	0.499	-
Modal (SD) Dose Median	518.2 (209.1)	2.4 (1.0)	522.0 (203) 29	2.4 (1.0) 29	539.6 (202)	2.5 (0.9)	540.8 (202) 86	2.4 (0.8) 85	580.0 (184) 169	2.6 (0.9) 173	582 (178) 336	2.2 (1.0) 337
Exp (days)	13	13	29	29	31	31	80	0.5	109	1/3	330	337

Information obtained from Sponsor table 72 and 78 in Clinical Study Report QTP- quetiapine, OlZ – olanzapine, Exp –exposure, RIS - risperidone

4. Mean BMI Change (kg/m2)

The olanzapine-treated subjects (N = 66) had a mean increase in BMI (kg/m²) from baseline of 2.9 kg/m² at a modal olanzapine dose of 12 mg per Day, compared to 1.4 kg/m² in antipsychotic naïve quetiapine-treated subjects (N = 65) with a median exposure of 181-238 days.

The risperidone-treated subjects (N = 59) had a mean increase in BMI (kg/m²) from baseline of 2.0 kg/m^2 at a modal risperidone dose of 2.3 mg per Day, compared to 1.4 kg/m^2 in antipsychotic naïve quetiapine-treated subjects (N = 65) with a median exposure of 169-238 days.

Table 39: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials)

	QTP (N = 65)	\mathbf{OLZ} (N = 66)	QTP $(N = 65)$	RIS $(N = 59)$
Mean (SD) BMI at BL	25.7 (5.8)	25.9 (7.0)	25.7 (5.8)	26.5 (6.2)
Mean (SD) BMI at EOT	27.1 (6.8)	28.8 (7.1)	27.1 (6.8)	28.5 (7.0)
Mean (SD) BMI Change	1.4 (2.5)	2.9 (2.8)	1.4 (2.5)	2.0 (2.6)
p-value	0.002	-	0.230	-
Modal (SD) Dose (mg)	503.1 (210.0)	11.9 (5.3)	503.1 (210.0)	2.3 (1.0)
Median Exposure (days)	238	181	238	169

Information obtained from Sponsor table 79 in Clinical Study Report QTP- quetiapine, OIZ – olanzapine, RIS - risperidone

5. *Mean BMI Change by BMI Category*

The mean BMI change by baseline BMI category showed 5.1, 2.6, 3.9 and 1.9 kg/ m², for olanzapine–treated subjects and 1.4, 1.2, 1.4 and 2.0 kg/ m² for antipsychotic naïve quetiapine–treated subjects for underweight (BMI< 18.5), normal weight (BMI 18.5-25), overweight (BMI 25-30) and obese (BMI > 30) groups, respectively.

The mean BMI change by baseline BMI category showed 2.8,1.9, 1.5 and 2.8 kg/ m^2 , for risperidone–treated subjects and 1.4, 1.2,1.4 and 2.0 kg/ m^2 for antipsychotic naïve quetiapine–treated subjects for underweight (BMI< 18.5), normal weight (BMI 18.5-25), overweight (BMI 25-30) and obese (BMI > 30) groups, respectively.

Table 40: BMI (kg/m2) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, comparator-controlled trials)

BMI category (kg/m2)	QTP	OLZ	QTP	RIS
Underweight BMI $\leq 18.5 = N$	3	2	3	1
Mean (SD) Wt at BL	16.7 (0.5)	18.0 (0.4)	16.7 (0.5)	18.4
Mean (SD) Wt at EOT	18.2 (0.8)	23.1 (0.5)	18.2 (0.8)	21.2
Mean (SD) Wt Change	1.4 (0.9)	5.1 (0.1)	1.4 (0.9)	2.8
p-value	0.013	-	0.326	-
Modal (SD) Dose (mg)	433.3 (208.2)	10.0 (0.0)	433.3 (208.2)	2.0
Median Exposure (days)	367.0	235.5	367.0	139.0
Normal weight BMI 18.5 to 25 =N	33	38	33	30
Mean (SD) Wt at BL	22.2 (1.7)	22.3 (1.5)	22.2 (1.7)	22.4 (2.0)
Mean (SD) Wt at EOT	23.3 (2.8)	24.9 (3.0)	23.3 (2.8)	24.3 (2.9)
Mean (SD) Wt Change	1.2 (2.4)	2.6 (2.7)	1.2 (2.4)	1.9 (1.8)
p-value	0.026	-	0.205	-
Modal (SD) Dose (mg)	496.9 (197.5)	12.6 (5.4)	496.9 (197.5)	2.2 (0.9)
Median Exposure (days)	307.0	166.0	307.0	172.0
	1 5 5 7 7 5	1	2 3 7 7 7	
Overweight BMI 25 to 30 = N	16	15	16	17
Mean (SD) Wt at BL	27.6 (1.6)	27.2 (1.7)	27.6 (1.6)	27.6 (1.3)
Mean (SD) Wt at EOT	29.0 (2.9)	31.1 (2.8)	29.0 (2.9)	29.1 (3.9)
Mean (SD) Wt Change	1.4 (1.9)	3.9 (3.2)	1.4 (1.9)	1.5 (3.6)
p-value	0.013	-	0.899	-
Modal (SD) Dose (mg)	493.8 (235.1)	10.8 (4.5)	493.8 (235.1)	2.3 (1.1)
Median Exposure (days)	183.5	198.0	183.5	104.0
• • •		•		
Obese BMI ≥ 30 = N	13	11	13	11
Mean (SD) Wt at BL	34.4 (5.0)	38.3 (8.5)	34.4 (5.0)	36.6 (6.0)
Mean (SD) Wt at EOT	36.4 (7.5)	40.2 (8.3)	36.4 (7.5)	39.4 (6.5)
Mean (SD) Wt Change	2.0 (3.6)	1.9 (2.1)	2.0 (3.6)	2.8 (2.7)
p-value	0.931	-	0.555	-
Modal (SD) Dose (mg)	546.2 (225.9)	11.6 (6.4)	546.2 (225.9)	2.5 (0.9)
Median Exposure (days)	305.0	179.0	305.0	181.0

Information obtained from Sponsor tables 74 and 80 in Clinical Study Report

QTP- quetiapine, OIZ - olanzapine, RIS - risperidone

5.5.2 Categorical Analyses

1. Weight Gain Outliers in olanzapine-controlled trials

In a pooled analysis of olanzapine-controlled trials, 49%, 10 %, and 15% had a mean weight gain of > 0-5 kg (0-11 lb) at a modal olanzapine dose of 13 mg per Day, compared to 64%, 26%, and 13% had a mean weight gain of > 0-5 kg (0-11 lb) in the antipsychotic naïve quetiapine-treated subjects at a modal quetiapine dose of 538 mg per Day for Week 6, 6 and 12 months. Although the sample sizes were small, the proportion of outliers appeared to be increased over time for other higher weight categories as well.

Table 41: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, olanzapine-controlled trials)

	QTP	QTP			OLZ		
	6 Weeks N = 56	6 Months N = 38	12 Months N = 23	6 Weeks N = 57	6 Months N = 30	12 Months N = 20	
Weight change	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	
≤0	7 (12.5)	13 (34.2)	7 (30.4)	6 (10.5)	2 (6.7)	1 (5.0)	
0 to ≤5 (0-11 lb)	36 (64.3)	10 (26.3)	3 (13.0)	28 (49.1)	3 (10.0)	3 (15.0)	
>5 to ≤10 (11-22 lb)	12 (21.4)	7 (18.4)	5 (21.7)	15 (26.3)	7 (23.3)	4 (20.0)	
>10 to ≤15 (22-33 lb)	1 (1.8)	6 (15.8)	4 (17.4)	7 (12.3)	9 (30.0)	6 (30.0)	
>15 to ≤20 (33-44 lb)	0	2 (5.3)	2 (8.7)	1 (1.8)	5 (16.7)	2 (10.0)	
>20 to ≤25 (44-55 lb)	0	0	1 (4.3)	0	3 (10.0)	2 (10.0)	
>25 to ≤30 (55-66 lb)	0	0	1 (4.3)	0	1 (3.3)	2 (10.0)	
Modal (SD) Dose	Modal (SD) Dose 538.2 (202.3)			12.6 (4.8)	12.6 (4.8)		
Median Exp (days)	195.5			173.0			

Information obtained from Sponsor tables 75 in Clinical Study Report, QTP- quetiapine, OIZ - olanzapine, Exp - exposure

2. Weight Gain Outliers in risperidone-controlled trials

In a pooled analysis of risperidone-controlled trials, 70%, 40 %, and 21% had a mean weight gain of > 0-5 kg (0-11 lb) at a modal risperidone dose of 2.4 mg per Day, compared to 64%, 26%, and 26% had a mean weight gain of > 0-5 kg (0-11 lb) in the antipsychotic naïve quetiapine-treated subjects at a modal quetiapine dose of 538 mg per Day for Week 6, 6 and 12 months. Although the sample sizes were small, the proportion of outliers appeared to be increased over time in other higher weight categories.

Table 42: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, risperidone-controlled trials)

	QTP			RIS	RIS		
	6 Wks N = 56	6 Mths N = 38	12 Mths N = 23	6 Wks N = 56	6 Mths N = 25	12 Mths N =14	
Weight change	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	
≤0	7 (12.5)	13 (34.2)	7 (30.4)	9 (16.1)	2 (8.0)	1 (7.1)	
0 to ≤5 (0-11 lb)	36 (64.3)	10 (26.3)	10 (26.3)	39 (69.6)	10 (40.0)	3 (21.4)	
>5 to ≤10 (11-22 lb)	12 (21.4)	7 (18.4)	5 (21.7)	7 (12.5)	6 (24.0)	4 (28.6)	
>10 to ≤15 (22-33 lb)	1 (1.8)	6 (15.8)	4 (17.4)	1 (1.8)	4 (16.0)	3 (21.4)	
>15 to ≤20 (33-44 lb)	0	2 (5.3)	2 (8.7)	0	2 (8.0)	2 (14.3)	
>20 to ≤25 (44-55 lb)	0	0	1 (4.3)	0	0	0	
>25 to ≤30 (55-66 lb)	0	0	1 (4.3)	0	1 (4.0)	1 (7.1)	
Modal (SD) Dose in mg	538.2 (202.3)		_	2.4 (0.9)	_		
Median Exp (days)	195.5			46.5			

Information obtained from Sponsor table 81 in Clinical Study Report, QTP- quetiapine, RIS - risperidone, Exp - exposure

5.6 Antipsychotic-Naïve Subjects Controlled and Uncontrolled Trials

5.6.1 Mean Change Analyses

1. Mean Body Weight Change

The antipsychotic naïve quetiapine-treated subjects (N = 4509) gained an average of 1.3 kg (2.9 lbs) at a modal quetiapine dose of 174 mg per Day with a median exposure of 57 days.

Table 43: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials)

	QTP (N = 4509)
Mean (SD) Weight at BL	81.0 (21.3)
Mean (SD) Weight at EOT	82.2 (21.4)
Mean (SD) Weight Change	1.3 (3.4)
Modal (SD) Dose (mg)	174.1 (116.0)
Median Exposure (days)	57.0

Information obtained from Sponsor table 82 in Clinical Study Report

2. Mean Body Weight Change by BMI Category

The mean weight gain by baseline BMI category months 1.7 kg, 1.5 kg 1.3 kg and 1.0 kg, for antipsychotic naïve quetiapine—treated subjects for underweight (BMI < 18.5), normal weight (BMI 18.5-25), overweight (BMI 25-30) and obese (BMI > 30) groups, respectively.

Table 44: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by BMI category (naïve subjects, all QTP trials)

BMI category (kg/m2)		QTP	
Underweight	N	104	
$BMI \le 18.5$	Mean (SD) Weight at BL	48.7 (6.8)	
	Mean (SD) Weight at EOT	50.4 (7.7)	
	Mean (SD) Weight Change	1.7 (3.5)	
	Modal (SD) Dose (mg)	207.2 (170.0)	
	Median Exposure (days)	56.0	
Normal weight	N	1488	
BMI 18.5 to 25	Mean (SD) Weight at BL	63.6 (8.9)	
	Mean (SD) Weight at EOT	65.1 (9.3)	
	Mean (SD) Weight Change	1.5 (3.1)	
	Modal (SD) Dose (mg)	175.6 (127.8)	
	Median Exposure (days)	57.0	
Overweight	N	1380	
BMI 25 to 30	Mean (SD) Weight at BL	78.9 (10.3)	
	Mean (SD) Weight at EOT	80.2 (10.8)	
	Mean (SD) Weight Change	1.3 (2.9)	
	Modal (SD) Dose (mg)	169.3 (106.0)	
	Median Exposure (days)	57.0	
Obese	N	1533	
BMI ≥30	Mean (SD) Weight at BL	101.9 (18.8)	
	Mean (SD) Weight at EOT	102.8 (19.2)	
	Mean (SD) Weight Change	1.0 (3.9)	
	Modal (SD) Dose (mg)	174.8 (107.4)	
	Median Exposure (days)	57.0	

Information obtained from Sponsor table 83 in Clinical Study Report

3. Mean Body Weight Change by Time (in Weeks)

The mean weight gain from baseline to endpoint for antipsychotic naïve quetiapine—treated subjects months 0.8 kg, 1.0 kg, 1.2 kg, 1.5 kg, 1.8 kg and 3.9 kg and for 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 45: Weight (in kg) - change from baseline (BL) to end of treatment (EOT) by week (naïve subjects, all QTP trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
N	2147	2098	2023	1417	223	86
Mean (SD) Weight at BL	80.4 (20.9)	80.2 (20.7)	80.8 (21.6)	81.6 (22.1)	79.9 (19.6)	80.0 (21.4)
Mean (SD) Weight at EOT	81.1 (20.9)	81.1 (20.7)	81.9 (21.6)	83.1 (22.0)	81.7 (19.7)	83.9 (24.3)
Mean (SD) Weight Change	0.8 (1.8)	1.0 (2.4)	1.2 (3.5)	1.5 (3.9)	1.8 (4.7)	3.9 (8.1)
Modal (SD) Dose (mg)	186.2(132.9)	188.2(134.2)	173.1(112.2)	180.4(119.4)	246.6(182.5)	280.6(224.2)
Median Exposure (days)	15.0	29.0	57.0	85.0	169.0	336.0

Information obtained from Sponsor table 84 in Clinical Study Report

4. Mean BMI Change (kg/m^2)

The antipsychotic naïve quetiapine-treated subjects (N = 4505) had a mean increase in BMI (kg/m^2) from baseline of 0.4 kg/m^2 at a modal quetiapine dose of 174 mg per Day with a median exposure of 57 days.

Table 46: BMI (kg/m²) - change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials)

	QTP (N = 4505)
Mean (SD) BMI at BL	28.5 (7.1)
Mean (SD) BMI at EOT	28.9 (7.1)
Mean (SD) BMI Change	0.4 (1.2)
Modal (SD) Dose (mg)	174.1 (116.0)
Median Exposure (days)	57.0

Information obtained from Sponsor table 85 in Clinical Study Report

5. *Mean BMI Change by BMI Category*

The mean BMI change by baseline BMI category months 0.6, 0.5, 0.5 and 0.3 kg/m², for antipsychotic naïve quetiapine-treated subjects for underweight (BMI < 18.5), normal weight (BMI 18.5-25), overweight (BMI 25-30) and obese (BMI > 30) groups, respectively.

Table 47: BMI (kg/m²) - change from baseline to end of treatment by BMI category (naïve subjects, all QTP trials)

BMI category (kg/m2)		QTP
Underweight BMI ≤ 18.5	N	104
	Mean (SD) BMI at BL	17.4 (1.0)
	Mean (SD) BMI at EOT	18.0 (1.6)
	Mean (SD) BMI Change	0.6 (1.3)
	Modal (SD) Dose (mg)	207.2 (170.0)
	Median Exposure (days)	56.0
Normal weight BMI 18.5 to 25	N	1488
_	Mean (SD) BMI at BL	22.3 (1.7)
	Mean (SD) BMI at EOT	22.8 (2.0)
	Mean (SD) BMI Change	0.5 (1.1)
	Modal (SD) Dose (mg)	175.6 (127.8)
	Median Exposure (days)	57.0
Overweight BMI 25 to 30	N	1380
	Mean (SD) BMI at BL	27.4 (1.4)
	Mean (SD) BMI at EOT	27.8 (1.7)
	Mean (SD) BMI Change	0.5 (1.0)
	Modal (SD) Dose (mg)	169.3 (106.0)

	Median Exposure (days)	57.0
Obese BMI ≥ 30	N	1533
	Mean (SD) BMI at BL	36.3 (5.9)
	Mean (SD) BMI at EOT	36.7 (6.1)
	Mean (SD) BMI Change	0.3 (1.4)
	Modal (SD) Dose (mg)	174.8 (107.4)
	Median Exposure (days)	57.0

Information obtained from Sponsor table 86 in Clinical Study Report

5.6.2 Categorical Analyses

1. Weight Gain Outliers

In a pooled analysis, among antipsychotic naïve quetiapine-treated subjects 62%, 46% and 42% had a mean weight gain of > 0-5 kg (0-11 lb) at a modal quetiapine dose of 188 mg per Day, at Week 6, 6 and 12 month interval, respectively. The proportion of outliers appeared to be increased over time in other higher weight categories.

Table 48: Proportion of Patients with Weight (in kg) Change at 6 Weeks, 6 and 12 Months (naïve subjects, all QTP trials)

	6 Weeks N = 1812	6 Months N = 238	12 Months N = 160
Weight change	N (%)	N (%)	N (%)
≤0	590 (32.6)	93 (39.1)	49 (30.6)
0 to ≤5 (0-11 lb)	1126 (62.1)	110 (46.2)	68 (42.5)
>5 to ≤10 (11-22 lb)	88 (4.9)	21 (8.8)	22 (13.8)
>10 to ≤15 (22-33 lb)	7 (0.4)	10 (4.2)	13 (8.1)
>15 to ≤20 (33-44 lb)	0	3 (1.3)	6 (3.8)
>20 to ≤25 (44-55 lb)	0	1 (0.4)	1 (0.6)
>25 to ≤30 (55-66 lb)	1 (0.1)	0	1 (0.6)
Modal (SD) Dose(mg)	187.6 (130.5)		
Median Exp (days)	43.0	·	·

Information obtained from Sponsor table 87 in Clinical Study Report

6 Glucose

6.1 Adult Subjects in Placebo-Controlled Trials

6.1.1 Mean Change Analyses

The mean change analyses in glucose (in mg/dl) (baseline to endpoint [last observation carried forward (LOCF)] and baseline to highest measurement for fasting and non-fasting data) was evaluated. Stratification according to baseline serum glucose measurement for each of the six categories (Fasting Serum Glucose: normal <100 mg/dL, impaired 100-125 mg/dL, Diabetes ≥126 mg/dL and Non-Fating Serum Glucose: Normal <140 mg/dL, Borderline 140-199 mg/dL, High ≥200 mg/dL) was evaluated. Observed case analyses of mean change for the following specified exposure durations: 2 weeks, 4 weeks, 8 weeks, 12 weeks, 24 weeks, and 48 weeks were reviewed.

Comparing the proportions of subjects with clinically significant changes was conducted using Fisher's exact test. Comparison between treatment groups was conducted and p-values reported.

The criteria for analyses of proportions of subjects with treatment-emergent changes of interest at any time post-baseline are as per table below.

Criteria for Clinically Significant Changes	Baseline	Post-Treatment
Fasting Serum Glucose		
Normal to High <100 mg/dL	<100 mg/dL	≥126 mg/dL
Impaired Fasting Glucose to High	100-125 mg/dL	≥126 mg/dL
Normal/Impaired Fasting Glucose to High	<126 mg/dL	≥126 mg/dL
Change in fasting serum glucose ≥10 mg/dL at any time	Any value	Fasting glucose
post-baseline*		increased ≥10 mg/dL
Non-Fasting Serum Glucose		
Normal to High	<140 mg/dL	≥200 mg/dL
Borderline to High	140-199 mg/dL	≥200 mg/dL
Normal to Borderline/High	<140 mg/dL	≥140 mg/dL
Normal/Borderline to High	<200 mg/dL	≥200 mg/dL
Change in non-fasting serum glucose ≥20 mg/dL at any time	Any value	Non-fasting glucose
post baseline*		increased ≥20 mg/dL

^{*} Additional subgroup analyses dividing according to baseline glucose levels (Fasting Serum Glucose: post-treatment levels of 140 mg/dL, 200 mg/dL, 300 mg/dl and Non-Fasting Glucose: post-treatment level of 300 mg/dL).

Analyses of the proportion of subjects with post-baseline hemoglobin A1c \geq 6.1%, 8%, 10%, and 12% among patients with baseline hemoglobin A1c values below 6.1% and analyses of the proportion of subjects with treatment-emergent glycosuria (defined as any glucose in the urine) for each fasting and non-fasting subject database was evaluated.

The sponsor provided non-fasting data results. This review will not cover this analysis as the number of subjects is too small (QTP=80; placebo=36) presenting difficulty in interpreting results.

1. Mean Glucose Change (in mg/dl)

The mean change from baseline and the highest mean change from baseline seen in fasting glucose levels in quetiapine-treated subjects (N = 3564) compared to placebo- treated subjects (N = 1657) showed 2.4 mg/dL compared to 1.6 mg/dL, and 5.3 mg/dL compared 4.4 mg/dL, respectively at a modal daily dose of 331 mg per Day with a mean exposure of 54-55 days.

Table 49: Fasting Glucose (mg/dl) change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials)

	QTP	Placebo
N	3564	1657
Mean (SD) Glucose at BL	92.1 (14.2)	91.6 (13.3)
Mean (SD) Glucose at EOT	94.6 (20.0)	93.2 (16.0)
Mean (SD) Glucose Change	2.4 (18.1)	1.6 (13.6)
p-value	0.044	-
		-
Mean (SD) Highest Glucose	97.4 (21.1)	96.0 (16.3)
Mean (SD) Highest Glucose Change	5.3 (18.8)	4.4 (14.0)
Modal (SD) Dose (mg)	331.4 (221.6)	
Median Exposure (days)	54	55

Information obtained from Sponsor table 329 in Clinical Study Report

Dose-Related Analyses

The mean change in fasting glucose from baseline to endpoint did not follow a linear dose-related signal. In general, quetiapine 50 mg/day and 150 mg/day did not appear to increase mean fasting glucose compared to placebo while doses \geq 300 mg/day did increase mean fasting glucose. The quetiapine 400 mg/day group, however, was not associated with an increase in mean fasting glucose compared to placebo – the finding is somewhat unexpected. The mean increase in fasting glucose was only statistically different from the placebo group for the 600 mg/day group.

The effects are variable in that the quetiapine 300 mg/day groups increased mean fasting glucose by 1.9 and 3.4 mg/dL in the GAD and MDD trials respectively - though neither of these changes in mean fasting glucose were significantly different from placebo. Interestingly, the quetiapine 50 mg/day group increased mean fasting glucose by 2.4 mg/dL in the MDD trials – again, this was not significantly different from placebo.

Table 50: Fasting Glucose (mg/dL), Change from Baseline to Endpoint, Placebo-Controlled Trials

	QTP	QTP	QTP	QTP	QTP	QTP	Placebo
	50 mg	150 mg	300 mg	400 mg	600 mg	800 mg	
All Trials							
n	439	832	1004	287	578	266	1489
Mean (SD) Change	0.2 (13.6)	1.8 (13.6)	3.3 (16.4)	1.7 (17.2)	3.4 (19.9)	2.4 (23.4)	1.7 (13.8)
p-value (vs. placebo)	NS	NS	NS (0.075)	NS (0.094)	0.02	NS	
Median Exposure (days)	56	56	56	42	56	42	56
Schizophrenia							
n	NA	NA	NA*	287	169	266	181
Mean (SD) Change	NA	NA	NA	1.7 (17.2)	3.5 (19.3)	2.4 (23.4)	0.0 (16.6)
p-value (vs. placebo)	NA	NA	NA	NS	NS (0.067)	NS	
Median Exposure (days)	NA	NA	NA	42	42	42	42
Bipolar Disorder		•					
n	-	-	498	-	409	-	367
Mean (SD) Change	-	-	4.0 (18.5)	-	3.4 (20.2)	-	2.9 (15.3)
p-value (vs. placebo)	-	-	NS	-	NS	-	
Median Exposure (days)	-	-	56	-	57	-	56
GAD		•					
n	315	446	259	-	-	-	456
Mean (SD) Change	-0.6 (14.0)	1.8 (12.9)	1.9 (13.1)	-	-	-	1.2 (12.3)
p-value (vs. placebo)	NS (0.064)	NS	NS	-	-	-	
Median Exposure (days)	59	56	58	-	-	-	57
MDD		-		•			•
n	124	386	247	-	-	-	485
Mean (SD) Change	2.4 (12.2)	1.9 (14.4)	3.4 (14.9)	-	-	-	1.8 (12.6)
p-value (vs. placebo)	NS	NS	NS	-	-	-	
Median Exposure (days)	42	49	48	-	-	-	50
MDD + GAD							
n	439	832	506	-	-	-	941
Mean (SD) Change	0.2 (13.6)	1.8 (13.6)	2.6 (14.0)	-	-	-	1.5 (12.5)
p-value (vs. placebo)	NS	NS	NS	-	-	-	
Median Exposure (days)	56	56	53	-	-	-	56

^{*}Sponsor indicated that no fasting glucose measurements were taken in clinical trials that included the 300 mg dose arm From Sponsor Tables 90, 92, 94, 96, 98, 100 in 2/18/09 submission

2. Mean Fasting Glucose Change (in mg/dl) by Time (in Weeks)

The mean fasting glucose change from baseline to endpoint for quetiapine—treated subjects showed 2.1, 3.0, and 2.0 mg/dl compared to placebo-treated subjects 1.7, 2.0, and 1.6 mg/dl at 2, 4, and 8 weeks, respectively. Data for week 12 is shown in Table 51; however, too few data are available for meaningful interpretation.

Table 51: Fasting Glucose (mg/dl) change from baseline (BL) to end of treatment (EOT), by week (placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
Seroquel = N	68	2436	1706	16
Mean (SD) Glucose at BL	91.7 (12.6)	91.7 (13.3)	92.3 (13.1)	97.2 (17.3)
Mean (SD) Glucose at EOT	93.7 (11.3)	94.7 (19.8)	94.3 (18.7)	100.1(15.3)
Mean (SD) Glucose Change	2.1 (10.6)	3.0 (18.1)	2.0 (16.3)	2.9 (7.2)
p-value	0.803	0.042	0.338	0.722
Modal (SD) Dose (mg)	387.5 (247)	312 (228)	279 (179)	391 (208)
Median Exposure (days)	15	29	57	73
Placebo = N	23	1182	871	4
Mean (SD) Glucose at BL	91.5 (13)	91.5 (13.4)	92.0 (14.4)	85.1 (9.9)
Mean (SD) Glucose at EOT	93.1 (12.7)	93.5 (14.5)	93.6 (16.5)	90.0 (10.4)
Mean (SD) Glucose Change	1.7 (12)	2.0 (14.3)	1.6 (13.1)	4.9 (7.0)
p-value	-	-	-	-
Modal (SD) Dose (mg)	-	-	-	-
Median Exposure (days)	13	29	57	73

Information obtained from Sponsor table 330 in Clinical Study Report

Dose-Related Analysis

Few subjects had fasting glucose data at week 2 and virtually no fasting glucose data are available for the 400 and 800 mg/day groups at week 8; therefore, these data are not very informative from a dose-related analysis over time perspective.

However, for the 8 week time point, a linear dose-relationship is noted with a decrement in mean fasting glucose for the quetiapine 50 mg/day group and increases of 1.5, 2.8 and 3.5 mg/dL for the 150, 300 and 600 mg/day groups.

Table 52: Fasting Glucose (mg/dL): Change from Baseline to Endpoint By Week, All Fixed-Dose Placebo-Controlled Trials

		QTP 50 mg N = 656	QTP 150 mg N = 1286	QTP 300 mg N = 1915	QTP 400 mg N = 340	QTP 600 mg N = 1182	QTP 800 mg N = 451	Placebo N = 2319
Week 2	n	5	15	16	11	9	11	19
	Mean (SD) Change	-3.2 (17.5)	4.1 (4.6)	1.6 (10.6)	-0.3 (15.8)	-0.5 (8.2)	7.5 (7.4)	2.7 (13.1)
	p-value (vs. placebo)	NS	NS	NS	NS	NS	0.032	
Week 4	n	375	711	551	245	246	214	1090
	Mean (SD) Change	1.1 (14.4)	1.9 (13.5)	4.6 (14.7)	0.2 (18.7)	4.7 (21.5)	3.5 (19.9)	2.0 (14.4)
	p-value (vs. placebo)	NS	NS	NS (0.068)	NS	NS (0.090)	NS	
Week 8	n	235	498	636	2	335	0	871
	Mean (SD) Change	-1.0 (10.9)	1.5 (13.0)	2.8 (17.3)	5.4 (7.6)	3.5 (21.1)	NA	1.6 (13.1)
	p-value (vs. placebo)	0.023	NS	NS	NS	0.049	NA	

From baseline to highest mean glucose change for quetiapine—treated subjects showed -0.6, 3.0, 5.8, and 4.2 mg/dl compared to placebo-treated subjects 2.7, 2.1, 4.8, and 7.7 mg/dl at 2, 4, 8,

and 12 weeks, respectively. Interpretation of the week 12 data is limited due to the small numbers of subjects at this time point.

Table 53: Fasting Glucose (mg/dl) change from baseline (BL) to highest mean glucose change, by week (placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
Seroquel = N	305	2498	2763	59
Mean (SD) Glucose at BL	93.4 (16.9)	91.8 (14)	92.3 (14.2)	93.2 (14.1)
Mean (SD) Highest Glucose	92.8 (17.3)	94.9 (20)	98.0 (20.3)	97.3 (15.1)
Mean (SD) Highest Glucose Change	-0.6 (14.9)	3.0 (18)	5.8 (17.8)	4.2 (10.0)
p-value	0.206	0.049	0.106	0.454
Modal (SD) Dose (mg)	392 (250)	315(229)	326 (217)	314 (186)
Median Exposure (days)	8	29	44	64
Placebo = N	152	1208	1224	22
Mean (SD) Glucose at BL	92.3 (12.8)	92 (13)	91.5 (13.6)	90.6 (13.8)
Mean (SD) Highest Glucose	95.0 (17.1)	94 (14)	96.3 (15.9)	98.4 (15.4)
Mean (SD) Highest Glucose Change	2.7 (15.4)	2.1(14.2)	4.8 (13.4)	7.7 (17.9)
p-value	-	-	-	-
Modal (SD) Dose (mg)	-	-	-	-
Median Exposure (days)	8	29	44	64

Information obtained from Sponsor table 330 in Clinical Study Report

3. Mean Fasting Glucose Change (mg/dl) from 'Normal' Baseline

The mean change from 'normal' baseline and the highest mean change from 'normal' baseline seen in fasting glucose levels in quetiapine-treated subjects (N = 2907) compared to placebotreated subjects (N = 1346) showed 3.8 mg/dL compared to 3.1 mg/dL, and 6.5 mg/dL compared to 5.8 mg/dL, respectively at a modal quetiapine dose of 325 mg per Day and at a mean exposure of 54-55 days.

Table 54:Fasting Glucose (mg/dl) change from normal baseline (BL) to end of treatment (EOT) (placebo-controlled trials)

	QTP	Placebo	
N	2907	1346	
Mean (SD) Glucose at BL	87.4 (7.0)	87.1 (7.2)	
Mean (SD) Glucose at EOT	91.2 (14.2)	90.2 (10.5)	
Mean (SD) Glucose Change	3.8 (14.3)	3.1 (11.1)	
p-value	0.090	-	
		-	
Mean (SD) Highest Glucose	93.9 (14.9)	92.9 (11.0)	
Mean (SD) Highest Glucose Change	6.5 (15.0)	5.8 (11.6)	
Modal (SD) Dose (mg)	325 (218)	-	
Median Exposure (days)	54	55	

Information obtained from Sponsor table 331 in Clinical Study Report

Dose-Related Analyses

Similar to the above analysis, due to the increase in mean fasting glucose from normal baseline to endpoint in the placebo group, few of the results analyzed by dose are significant. However, in general, it appears that the dose relationship noted previously for change in mean fasting glucose from baseline (normal/impaired) is similar. For doses ≥ 300 mg/day a more consistent increase in fasting glucose was demonstrated. The 50 mg/day group had very different effects on mean fasting glucose when analyzed by indication. In the GAD trials, mean fasting glucose increased by 0.5 mg/dL while in the MDD trials, mean fasting glucose increased by 4.0 mg/dL \sim

similar to the effects noted at 150 and 300 mg/day. None of these increases in mean fasting glucose in the MDD and GAD trials were significantly different from placebo however.

Table 55: Fasting Glucose (mg/dL), Change from Normal Baseline to Endpoint, Placebo-Controlled Trials

	QTP	QTP	QTP	QTP	QTP	QTP	Placebo
	50 mg	150 mg	300 mg	400 mg	600 mg	800 mg	
All Trials	•	•					
n	368	689	835	242	452	196	1210
Mean (SD) Change	1.5 (10.1)	3.2 (11.3)	3.8 (12.3)	3.6 (12.0)	5.4 (15.3)	4.3 (11.7)	3.1 (11.1)
p-value (vs. placebo)	NS (0.099)	NS	NS	NS	0.015	NS	
Median Exposure (days)	56	56	56	42	55.5	42	56
Schizophrenia		•					
n	NA	NA	NA*	242	139	196	141
Mean (SD) Change	NA	NA	NA	3.6 (12.0)	5.2 (15.7)	4.3 (11.7)	2.4 (13.3)
p-value (vs. placebo)	NA	NA	NA	NS	NS (0.083)	NS	
Median Exposure (days)	NA	NA	NA	42	42	42	42
Bipolar Disorder		•					
n	-	-	402	-	313	-	290
Mean (SD) Change	-	-	3.8 (12.7)	-	5.5 (15.2)	-	4.2 (11.5)
p-value (vs. placebo)	-	-	NS	-	NS	-	
Median Exposure (days)	-	-	56	-	57	-	56
GAD		•					
n	261	365	220	-	-	-	374
Mean (SD) Change	0.5 (9.7)	3.1 (11.3)	3.3 (10.6)	-	-	-	2.8 (10.9)
p-value (vs. placebo)	0.006	NS	NS	-	-	-	
Median Exposure (days)	59	56	58.5	-	-	-	57
MDD		•					
n	107	324	213	-	-	-	405
Mean (SD) Change	4.0 (10.8)	3.4 (11.3)	4.4 (13.3)	-	-	-	2.9 (10.1)
p-value (vs. placebo)	NS	NS	NS (0.091)	-	-	-	
Median Exposure (days)	42	49	48	-	-	-	50
MDD + GAD							
n	368	689	433	-	-	-	779
Mean (SD) Change	1.5 (10.1)	3.2 (11.3)	3.8 (12.0)	-	-	-	2.9 (10.5)
p-value (vs. placebo)	NS (0.083)	NS	NS	-	-	-	
Median Exposure (days)	56	56	52	-	-	-	56

^{*}Sponsor indicated that no fasting glucose measurements were taken in clinical trials that included the 300 mg dose arm From Sponsor Tables 102, 105, 106, 108, 110, 112 in 2/18/09 submission

4. Mean Fasting Glucose Change from 'Normal' Baseline by Time (in Weeks)

The mean fasting glucose change from 'normal' baseline to endpoint for quetiapine—treated subjects showed 4.3, 4.4, 3.0, and 3.9 mg/dl compared to placebo-treated subjects showed 4.2, 3.6, 3.2, and 4.9 mg/dl at 2, 4, 8, and 12 weeks, respectively. Interpretation of the week 12 data is limited due to the small numbers of subjects at this timepoint.

Table 56: Fasting Glucose change from normal baseline (BL) to end of treatment (EOT), by week (placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
Seroquel = N	54	2018	1376	11
Mean (SD) Glucose at BL	86.8 (7.4)	87.4 (6.9)	87.7 (6.8)	88.4 (7.2)
Mean (SD) Glucose at EOT	91.2 (10.2)	91.8 (15.5)	90.7 (11.9)	92.3 (5.6)
Mean (SD) Glucose Change	4.3 (8.9)	4.4 (15.7)	3.0 (11.9)	3.9 (6.4)
p-value	0.979	0.056	0.572	0.258
Modal (SD) Dose (mg)	394 (248)	307 (223)	273 (176)	400 (206)
Median Exposure (days)	15	29	57	71
Placebo = N	17	971	699	4
Mean (SD) Glucose at BL	85.6 (8.6)	87.2 (7.2)	87.1 (7.3)	85.1 (9.9)

Mean (SD) Glucose at EOT	89.8 (12.0)	90.8 (11.1)	90.4 (10.2)	90.0 (10.4)
Mean (SD) Glucose Change	4.2 (12.8)	3.6 (11.7)	3.2 (10.9)	4.9 (7.0)
p-value	-	-	-	-
Modal (SD) Dose (mg)	-	-	-	-
Median Exposure (days)	13	29	57	74

Information obtained from Sponsor table 332 in Clinical Study Report

From baseline to highest mean glucose change for quetiapine—treated subjects showed 2.0, 4.5, 6.9, and 5.0 mg/dl compared to placebo-treated subjects showed 3.6, 3.7, 6.3, and 10.4 mg/dl at 2, 4, 8, and 12 weeks, respectively. Interpretation of the week 12 data is limited due to the small numbers of subjects at this timepoint.

Table 57: Fasting Glucose (mg/dl) at normal baseline (BL) to highest mean glucose change, by week (placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
Seroquel = N	240	2065	2233	43
Mean (SD) Glucose at BL	87.4 (7.2)	87.4 (6.9)	87.4 (6.9)	86.9 (7.1)
Mean (SD) Highest Glucose	89.4 (12.5)	91.9 (15.4)	94.3 (13.0)	91.9 (9.5)
Mean (SD) Highest Glucose Change	2.0 (12.2)	4.5 (15.7)	6.9 (13.2)	5.0 (8.1)
p-value	0.834	0.053	0.528	0.407
Modal (SD) Dose (mg)	399 (252)	309 (223)	318 (212)	319 (176)
Median Exposure (days)	8	29	43	65
Placebo = N	119	992	997	19
Mean (SD) Glucose at BL	87.2 (7.7)	87.2 (7.2)	87.0 (7.3)	86.1 (6.8)
Mean (SD) Highest Glucose	90.8 (10.9)	90.9 (11.1)	93.3 (10.8)	96.5 (13.6)
Mean (SD) Highest Glucose Change	3.6 (11.1)	3.7 (11.7)	6.3 (11.5)	10.4 (14.5)
p-value	-	-	-	-
Modal (SD) Dose (mg)	-	-	-	-
Median Exposure (days)	7	29	44	64

Information obtained from Sponsor table 332 in Clinical Study Report

5. Mean Fasting Glucose Change (mg/dl) from 'High' Baseline

The mean change from 'high' baseline and the highest mean change from 'high' baseline seen in fasting glucose levels in quetiapine-treated subjects (N = 85) compared to placebo- treated subjects (N = 32) was -6.5 mg/dL compared to -7.0 mg/dL and 2.3 mg/dL compared to -5.1 mg/dL, respectively at a modal quetiapine dose of 448 mg per Day with a mean exposure of 45-56 days.

Table 58: Fasting Glucose (mg/dl) change from high baseline (BL) to end of treatment (EOT) (placebo-controlled trials)

	QTP	Placebo	
N	85	32	
Mean (SD) Glucose at BL	150.6 (28.9)	146.3 (26.3)	
Mean (SD) Glucose at EOT	144.1 (56.8)	139.3 (50.5)	
Mean (SD) Glucose Change	-6.5 (58.8)	-7.0 (37.4)	
p-value	0.876	-	
Mean (SD) Highest Glucose	152.9 (61.0)	141.1 (50.8)	
Mean (SD) Highest Glucose Change	2.3 (63.2)	-5.1 (37.1)	
Modal (SD) Dose (mg)	448 (257)	-	
Median Exposure (days)	45	56	

Information obtained from Sponsor table 333 in Clinical Study Report

6. Mean Fasting Glucose Change from 'High' Baseline by Time (in Weeks)

The mean fasting glucose change from 'high' baseline to endpoint for quetiapine—treated subjects showed -37.8, -2.2, 3.3, and -1.8 mg/dl at 2, 4, 8, and 12 weeks respectively, compared to placebo-treated subjects -23.0 at 4 weeks and -5.6 at 8 weeks.

Table 59: Fasting Glucose change from high baseline (BL) to end of treatment (EOT), by week (placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
Seroquel = N	1	54	34	1
Mean (SD) Glucose at BL	142.2	146.8 (22.9)	145.4 (29.3)	142.2
Mean (SD) Glucose at EOT	104.4	144.6 (53.8)	148.8 (57.2)	140.4
Mean (SD) Glucose Change	-37.8	-2.2 (53.4)	3.3 (60.8)	-1.8
p-value	=	0.279	0.481	-
Modal (SD) Dose (mg)	400	419 (280)	371 (209)	600.0
Median Exposure (days)	15	29	57	78
Placebo = N	0	20	20	0
Mean (SD) Glucose at BL	=	151.2 (31.9)	151.2 (31.5)	=
Mean (SD) Glucose at EOT	-	128.3 (35.8)	145.5 (54.8)	-
Mean (SD) Glucose Change	=	-23.0 (46.8)	-5.6 (35.5)	-
p-value	=	=	=	-
Modal (SD) Dose (mg)	=	=	=	-
Median Exposure (days)	=	29	57	-

Information obtained from Sponsor table 332 in Clinical Study Report

From baseline to highest mean glucose change for quetiapine—treated subjects showed -16.4, -4.1, 5.9, and -0.9 mg/dl compared to placebo-treated subjects -20.3, -22.3, -3.4, and -16.2 mg/dl at 2, 4, 8, and 12 weeks, respectively.

Table 60: Fasting Glucose (mg/dl) at high baseline (BL) to highest mean glucose change, by week (placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
Seroquel = N	12	59	66	2
Mean (SD) Glucose at BL	151.2 (34.0)	148.3 (25.8)	149.8 (30.1)	142.2 (0.0)
Mean (SD) Highest Glucose	134.9 (39.0)	144.2 (53.4)	155.7 (63.3)	141.3 (36.9)
Mean (SD) Highest Glucose Change	-16.4 (37.7)	-4.1 (52.1)	5.9 (66.7)	-0.9 (36.9)
p-value	0.483	0.311	0.611	-
Modal (SD) Dose (mg)	450 (210)	427(276)	466 (265)	600
Median Exposure (days)	6.5	29	43	31
Placebo = N	4	21	23	1
Mean (SD) Glucose at BL	129.6 (4.4)	150.3 (31.4)	149.8 (29.6)	129.6
Mean (SD) Highest Glucose	109.4 (30.0)	128.0 (34.9)	146.4 (52.7)	113.4
Mean (SD) Highest Glucose Change	-20.3 (25.6)	-22.3 (45.7)	-3.4 (34.6)	-16.2
p-value	-	-	-	-
Modal (SD) Dose (mg)	=	=	-	-
Median Exposure (days)	4.5	29	571	64

Information obtained from Sponsor table 333 in Clinical Study Report

7. *Mean Fasting Glucose Change (mg/dl) from 'impaired fasting glucose' Baseline*

The mean change from 'impaired fasting' baseline and the highest mean change from 'impaired fasting' baseline seen in fasting glucose levels in quetiapine-treated subjects (N = 572) compared to placebo- treated subjects (N = 279) showed -3.1 mg/dL compared to -4.4 mg/dL and -5.1 mg/dL compared to -1.2 mg/dL, respectively at a modal quetiapine dose of 448 mg per Day with a mean exposure of 55 days.

Table 61: Fasting Glucose (mg/dl) change from impaired fasting glucose at baseline (BL) to end of treatment (EOT) (placebo-controlled trials)

	QTP	Placebo	
N	572	279	
Mean (SD) Glucose at BL	107.3 (6.5)	107.0 (6.2)	
Mean (SD) Glucose at EOT	104.3 (22.0)	102.6 (18.0)	
Mean (SD) Glucose Change	-3.1 (20.9)	-4.4 (17.4)	
p-value	0.266	-	
Mean (SD) Highest Glucose	107.2 (21.9)	105.8 (18.3)	
Mean (SD) Highest Glucose Change	-0.2 (20.6)	-1.2 (17.5)	
Modal (SD) Dose (mg)	346 (230)	-	
Median Exposure (days)	55	55	

Information obtained from Sponsor table 335 in Clinical Study Report

Dose-Related Analyses

All dose groups showed decrements in mean fasting glucose change from impaired baseline to endpoint. No strong dose-relationship emerged.

Table 62: Fasting Glucose (mg/dL), Change from Impaired Baseline to Endpoint, Placebo-Controlled Trials

	QTP 50 mg	QTP 150 mg	QTP 300 mg	QTP 400 mg	QTP 600 mg	QTP 800 mg	Placebo
All Trials		•	•	•	•	•	•
n	65	126	155	40	104	52	248
Mean (SD) Baseline	107.7 (7.0)	106.4 (5.5)	107.7 (6.8)	108.8 (7.0)	106.6 (5.9)	108.1 (7.2)	107.1 (6.3)
Mean (SD) EOS	104.1 (22.6)	101.4 (14.6)	105.9 (24.7)	104.4 (27.1)	106.4 (23.0)	103.5 (17.4)	103.0 (18.5)
Mean (SD) Change	-3.7 (22.0)	-5.0 (14.9)	-1.8 (22.6)	-4.4 (26.2)	-0.2 (22.9)	-4.7 (15.4)	-4.1 (17.7)
p-value (vs. placebo)	NS	NS	NS	NS	NS	NS	-
Median Exposure (days)	56	56	56	42	56	42	56

From Sponsor Table 126 in 2/18/09 submission

8. Mean Fasting Glucose Change from 'impaired fasting glucose' Baseline by Time (in Weeks)

The mean fasting glucose change from 'impaired fasting glucose' baseline to endpoint for quetiapine—treated subjects showed -4.4 at 2 weeks, -4.0 at 4 weeks, -2.7 at 8 weeks and 1.4 mg/dl at 12 weeks compared to placebo-treated subjects -5.7 at 2 weeks, -3.4 at 4 weeks, -5.1 at 8 weeks.

Table 63: Fasting Glucose change from impaired fasting glucose at baseline to end of treatment, by week (placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
Seroquel = N	13	364	296	4
Mean (SD) Glucose at BL	108.0 (6.1)	107.3 (6.5)	107.2 (6.4)	110.3 (11.5)
Mean (SD) Glucose at EOT	103.6(10.0)	103.3(19.4)	104.5(22.3)	111.6 (11.1)
Mean (SD) Glucose Change	-4.4 (8.7)	-4.0 (18.4)	-2.7 (20.9)	1.4 (10.3)
p-value	0.740	0.711	0.163	-
Modal (SD) Dose (mg)	358 (233)	325 (246)	293 (188)	313 (225)
Median Exposure (days)	14	29	57	74
Placebo = N	6	191	152	0
Mean (SD) Glucose at BL	108.3 (8.3)	107.2 (6.2)	106.8 (6.0)	-
Mean (SD) Glucose at EOT	102.6 (9.9)	103.7 (16.5)	101.7 (15.2)	-
Mean (SD) Glucose Change	-5.7 (6.8)	-3.4 (15.3)	-5.1 (14.8)	-
p-value	-	-	-	-
Modal (SD) Dose (mg)	-	-	-	-
Median Exposure (days)	14	29	57	-

Information obtained from Sponsor table 336 in Clinical Study Report

From baseline to highest mean glucose change for quetiapine—treated subjects showed -8.8, -3.9, 0.4, and 2.3 mg/dl compared to placebo-treated subjects -2.0, 3.3, -1.9, and -5.4 mg/dl at 2, 4, 8, and 12 weeks, respectively.

Table 64: Fasting Glucose from impaired fasting glucose at baseline (BL) to highest mean glucose change, by week (placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
Seroquel = N	53	374	464	14
Mean (SD) Glucose at BL	107.5 (6.8)	107.3 (6.5)	107.3 (6.4)	105.6 (7.3)
Mean (SD) Highest Glucose	98.7 (14.5)	103.4(19.3)	107.7 (21.0)	107.9 (10.1)
Mean (SD) Highest Glucose Change	-8.8 (12.8)	-3.9 (18.3)	0.4 (19.6)	2.3 (10.9)
p-value	0.017	0.645	0.068	0.394
Modal (SD) Dose (mg)	348 (246)	327 (246)	344 (228)	279(200)
Median Exposure (days)	8	29	44	65
Placebo = N	29	195	204	2
Mean (SD) Glucose at BL	108.2 (7.8)	107.2 (6.2)	107.0 (6.0)	114.5 (9.2)
Mean (SD) Highest Glucose	110.2 (25.3)	103.9 (16.4)	105.1 (16.0)	109.1 (34.1)
Mean (SD) Highest Glucose Change	2.0 (24.6)	-3.3 (15.1)	-1.9 (15.7)	-5.4 (43.3)
p-value	=	-	-	-
Modal (SD) Dose (mg)	=	-	-	-
Median Exposure (days)	9	29	54	62

Information obtained from Sponsor table 336 in Clinical Study Report

6.1.2 Categorical Analyses

1. Fasting Glucose Increase Outliers

Results showed that the 2.4% of quetiapine-treated subjects compared to 1.4% of placebo-treated subjects had a mean treatment emergent increase in fasting glucose from baseline values of glucose <100 mg/dL to >126 mg/dL post-baseline. Similar proportions of increase in glucose outliers of \geq 126 or \geq 140 mg were observed in both quetiapine-treated and placebo-treated subjects who had baseline values of glucose \geq 100 mg/dL and <126 mg/dL, and glucose >126 mg/dL. The modal quetiapine dose was 329 mg per Day with a median exposure of 55 Days.

Table 65: Proportion of Patients with treatment emergent fasting Glucose (mg/dL) change (placebo-controlled trials)

Baseline	Treatment Arm Post-baseline	N =	≥300 N (%)	≥200 N (%)	≥140 N (%)	≥126 N (%)
<100 mg/dL	Quetiapine	2907	2 (0.1)	4 (0.1)	26 (0.9)	71 (2.4)
	Placebo	1346	0	0	8 (0.6)	19 (1.4)
	p-value		1.000	0.315	0.359	0.030
≥100 mg/dL and <126 mg/dL	Quetiapine	572	1 (0.2)	6 (1.0)	30 (5.2)	67 (11.7)
	Placebo 279		0	0	13 (4.7)	33(11.8)
	p-value		1.000	0.185	0.868	1.000
< 126 mg/dL	Quetiapine	3479	3 (0.1)	10 (0.3)	56 (1.6)	138 (4.0)
	Placebo	1625	0	0	21 (1.3)	52 (3.2)
	p-value		0.556	0.037	0.460	0.204
Modal (SD) Dose (mg)	329(220)				-	
Median Exposure(days)	55					

Dose-Related Analyses

The percentage of subjects with an increase from normal to high fasting glucose (< 100 to ≥ 126 mg/dL) was 0.5% in the 50 mg/day group with similar percentages in the 150 - 600 mg/day groups (2.6% - 3.3%, not linear) and 1% in the 800 mg/day group compared to 1.4% in the placebo group. No dose-related signal emerged when evaluating the percentages of subjects with shifts from impaired to high fasting glucose (100-125 to ≥ 126 mg/dL).

Table 66: Shifts in Fasting Glucose (mg/dL), All Fixed-Dose Placebo-Controlled Trials

	QTP 50 mg N = 656 QTP 150 mg N = 1286			QTP 300 mg N = 1915			QTP 400 mg N = 340					
	N	n	(%)	N	n	(%)	N	n	(%)	N	n	(%)
Increase by ≥ 10 mg/dL	439	107	24.4%	832	229	27.5%	1004	279	27.8%	287	74	25.8%
Normal to High	368	2	0.5%	689	18	2.6%	835	23	2.8% ^a	242	8	3.3% ^b
$(< 100 \text{ to} \ge 126 \text{ mg/dL})$												
Normal to ≥ 140 mg/dL	368	0	0	689	7	1%	835	7	0.8%	242	3	1.2%
Normal to ≥ 200 mg/dL	368	0	0	689	0	0	835	0	0	242	0	0
Normal to ≥ 300 mg/dL	368	0	0	689	0	0	835	0	0	242	0	0
Impaired to High	65	7	10.8%	126	6	4.8%	155	22	14.2%	40	8	20%
$(100 - 125 \text{ to} \ge 126 \text{ mg/dL})$												
Impaired to ≥ 140 mg/dL	65	3	4.6%	126	2	1.6%	155	8	5.2%	40	4	10%
Impaired to ≥ 200 mg/dL	65	1	1.5%	126	0	0	155	1	0.6%	40	1	2.5%
Impaired to ≥ 300 mg/dL	65	0	0	126	0	0	155	1	0.6%	40	0	0

	QTP 6	00 mg		QTP 80	00 mg		Placeb	o	
	N = 1182		N = 451			N = 2319			
	N	n	(%)	N	n	(%)	N	n	(%)
Increase by ≥ 10 mg/dL	578	166	28.7%	266	99	37.2% ^a	1489	391	26.3%
Normal to High	452	13	2.9% ^b	196	2	1%	1210	17	1.4%
$(< 100 \text{ to } \ge 126 \text{ mg/dL})$									
Normal to \geq 140 mg/dL	452	7	1.5%	196	0	0	1210	7	0.6%
Normal to \geq 200 mg/dL	452	2	0.4%	196	0	0	1210	0	0
Normal to $\geq 300 \text{ mg/dL}$	452	0	0	196	0	0	1210	0	0
Impaired to High	104	13	12.5%	52	8	15.4%	248	31	12.5%
$(100 - 125 \text{ to} \ge 126 \text{ mg/dL})$									
Impaired to ≥ 140 mg/dL	104	6	5.8%	52	5	9.6%	248	12	4.8%
Impaired to ≥ 200 mg/dL	104	2	1.9%	52	0	0	248	0	0
Impaired to ≥ 300 mg/dL	104	0	0	52	0	0	248	0	0

^a statistically significant versus placebo

From Sponsor Tables 138 and 144 in 2/18/09 submission

2. Fasting Glucose Increase of more than $\geq 10 \text{ mg/dL Outliers}$

Results showed that the 28%, 29%, 18%, 37% of quetiapine-treated subjects had a mean treatment emergent increase in fasting glucose of \geq 10 mg/dl at categories any value, <100 mg/dl, \geq 100 mg/dL and <126 mg/dL respectively with modal quetiapine dose of 331 mg per Day and a median exposure of 54-55 Days.

Table 67: Proportion of Patients with treatment emergent increase (>10 mg/dL) in fasting glucose (placebo-controlled trials)

Baseline	Treatment Arm	N =	≥10 mg/dL increase post-baseline n (%)
Any value	Quetiapine	3564	989 (27.7)
	Placebo	1657	430 (26.0)
	p-value = 0.181		

b borderline statistically significant versus placebo ($p \le 0.06$)

<100 mg/dL	Quetiapine	2907	855 (29.4)
	Placebo	1346	375 (27.9)
	p-value = 0.309	<u>'</u>	
≥100 mg/dL and <126 mg/dL	Quetiapine	572	103 (18.0)
	Placebo	279	45 (16.1)
	p-value = 0.563		
<126 mg/dL	Quetiapine	85	31 (36.5)
	Placebo	32	10 (31.3)
	p-value = 0.668		
Modal (SD) Dose (mg)	331 (221)		
Median Exposure(days)	54 - 55		

Information obtained from Sponsor table 340 in Clinical Study Report

Dose-Related Analyses

See Table 67 above. Similar percentages of subjects had shifts in fasting glucose ≥ 10 mg/dL in the placebo (26%) and quetiapine 50-600 mg/day groups ($\sim 24-28\%$); compared to 37% in the quetiapine 800 mg/day group.

3. Fasting HbA1c (%) Increase of more than \geq 6.1 Outliers

Results showed that the 4.1% of quetiapine-treated (N = 3481) subjects had a mean HbA1c increase (> 6.1) from baseline compared to 2.8% of placebo-treated subjects (N = 1595) (median exposure 55-56 days).

Table 68: Proportion of Patients with treatment emergent fasting HbA1c (%) increase (placebo-controlled trials)

Baseline	Treatment Arm Post-baseline	N =	≥ 6.1 N (%)	≥8 N (%)	≥10 N (%)	≥12 N (%)
HbA1c(%) <6.1	Quetiapine	3481	144 (4.1)	0	0	0
	Placebo	1595	44 (2.8)	0	0	0
	p-value = 0.016					
Modal (SD) Dose	340 (221)					
Median Exposure(days)	55 - 56					

Information obtained from Sponsor table 341 in Clinical Study Report

Dose-Related Analyses

A dose-related signal emerged for the HbA1c analysis. In the quetiapine 600 and 800 mg/day groups, 4.9% and 7.7%, respectively, of subjects had an increase in HbA1c of \geq 6.1% compared to 2.5% in the placebo group.

Table 69: HbA1c, Shifts from Baseline, All Fixed Dose Trials

	QTP	QTP	QTP	QTP	QTP	QTP	Placebo
	50 mg	150 mg	300 mg	400 mg	600 mg	800 mg	
	N = 656	N = 1286	N = 1915	N = 340	N = 1182	N = 451	N = 2319
N	388	789	997	276	616	261	1450
Increase to $\geq 6.1\%$	13 (3.4%)	30 (3.8%)	33 (3.3%)	3 (1.1%)	30 (4.9%)	20 (7.7%)	36 (2.5%)
p-value (vs. placebo)	NS	NS	NS	NS	0.006	< 0.001	
Median Exposure (days)	56	56	56	42	56	42	56

From Sponsor Table 158 in 2/18/09 submission

4. Glycosuria Outliers

Results showed that the 2.3% of quetiapine-treated subjects (N = 1588) had glycosuria (any amount of glucose seen in urine) from baseline compared to 0.2% of placebo-treated subjects (N = 439) (median exposure 43 -44 days).

Table 70: Proportion of Patients with treatment emergent glycosuria (placebo-controlled trials)

Baseline	Treatment Arm Post-baseline	N =	N (%)
Glycosuria	Quetiapine	1588	36 (2.3)
	Placebo	439	1 (0.2)
Mean Modal (SD) Dose (mg)	500 (192)		
Median Exposure(days)	43 - 44		

Information obtained from Sponsor table 342 in Clinical Study Report

Dose-Related Analyses

A dose-related signal did appear to emerge for the percentage of subjects experiencing glycosuria; however, too few data are available for the quetiapine 50 and 150 mg/day groups to interpret the effect of these lower doses on this variable.

Table 71: Glycosuria, All Fixed Dose Trials

	QTP	QTP	QTP	QTP	QTP	QTP	Placebo
	50 mg	150 mg	300 mg	400 mg	600 mg	800 mg	
	N = 656	N = 1286	N = 1915	N = 340	N = 1182	N = 451	N = 2319
N	4	7	275	293	450	276	283
N (%) with Glycosuria	0	0	5 (1.8%)	5 (1.7%)	11 (2.4%)	13 (4.7%)	1 (0.4%)
Median Exposure (days)	35	50	68	42	54	42	42

From Sponsor Table 165 in 2/18/09 submission

6.2 Adult Subjects in Comparator-Controlled Clinical Trials

6.2.1 Mean Change Analyses

1. Mean Fasting Glucose Change (mg/dl) from 'Any' Baseline

The mean change from baseline (any glucose level) to endpoint and the highest mean change from baseline in olanzapine-treated subjects (N = 212, modal daily dose of 15 mg) were 3.9 mg/dL and 9.1 mg/dL compared to 3.0 mg/dL and 6.9 mg/dL in quetiapine-treated subjects (N = 198, modal daily dose of 602 mg) respectively, with a mean exposure of 168 days.

The mean change from baseline (any glucose level) to endpoint and the highest mean change from baseline in risperidone-treated subjects (N = 207, modal daily dose of 4.7 mg) were 2.5 mg/dL and 6.5 mg/dL compared to 3.0 mg/dL and 6.9 mg/dL in quetiapine-treated subjects (N = 198, modal daily dose of 602 mg) respectively, with a mean exposure of 168 days.

Table 72: Mean glucose (mg/dl) change from baseline (BL) to end of treatment (EOT) (comparator-controlled trials)

	QTP	OLZ	QTP	RIS
N	198	212	198	207
Mean (SD) Glucose at BL	90.7 (11.8)	89.8 (14.1)	90.7 (11.8)	92.0 (12.6)
Mean (SD) Glucose at EOT	93.7 (14.6)	93.7 (12.1)	93.7 (14.6)	94.5 (15.4)
Mean (SD) Glucose Change	3.0 (14.9)	3.9 (15.3)	3.0 (14.9)	2.5 (14.2)

p-value	0.572	-	0.692	-
Mean (SD) Highest Glucose	97.6 (15.2)	98.9 (16.1)	97.6 (15.2)	98.5 (17.2)
Mean (SD) Highest Glucose Change	6.9 (15.0)	9.1 (19.1)	6.9 (15.0)	6.5 (16.2)
Modal (SD) Dose (mg)	602.5 (160.2)	14.8 (3.8)	602.5 (160.2)	4.7 (1.6)
Median Exposure (days)	168	168	168	168

Information obtained from Sponsor table 350 and 370 in Clinical Study Report, OLZ-olanzapine, and RIS-risperidone

2. Mean Fasting Glucose Change (mg/dl) from 'Normal' Baseline

The mean change from normal baseline (fasting glucose level of <100 mg/dl) to endpoint and the highest mean change from baseline in olanzapine-treated subjects (N = 182, modal daily dose of 15 mg) were 5.7 mg/dL and 10.8 mg/dL compared to 5.6 mg/dL and 9.2 mg/dL in quetiapine-treated subjects (N = 162, modal daily dose of 605 mg) respectively, with a mean exposure of 168 days.

The mean change from normal baseline (fasting glucose level of <100 mg/dl) to endpoint and the highest mean change from baseline in risperidone-treated subjects (N = 164, modal daily dose of 4.5 mg) were 4.5 mg/dL and 8.7 mg/dL compared to 5.6 mg/dL and 9.2 mg/dL in quetiapine-treated subjects (N = 166, modal daily dose of 604 mg) respectively, with a mean exposure of 168 days.

Table 73: Mean glucose (mg/dl) change from 'normal' baseline (BL) to end of treatment (EOT) (comparator-controlled trials)

	QTP	OLZ	QTP	RIS
N	166	182	166	164
Mean (SD) Glucose at BL	86.9 (7.3)	86.4 (6.9)	86.9 (7.3)	87.3 (7.7)
Mean (SD) Glucose at EOT	92.5 (14.6)	92.1 (11.1)	92.5 (14.6)	91.8 (10.7)
Mean (SD) Glucose Change	5.6 (13.4)	5.7 (10.7)	5.6 (13.4)	4.5 (10.6)
p-value	0.931	-	0.425	-
Mean (SD) Highest Glucose	96.1 (14.9)	97.2 (14.6)	96.1 (14.9)	96.1 (14.3)
Mean (SD) Highest Glucose Change	9.2 (13.4)	10.8 (14.9)	9.2 (13.4)	8.7 (13.8)
Modal (SD) Dose (mg)	605 (163)	15 (4)	604.8 (163.4)	4.5 (1.6)
Median Exposure (days)	168	168	168	168

Information obtained from Sponsor table 352 and 372 in Clinical Study Report, OLZ-olanzapine, and RIS- risperidone

3. Mean Fasting Glucose Change (mg/dl) from 'Impaired' Baseline

The mean change from impaired baseline (fasting glucose level of 100-125 mg/dl) to endpoint and the highest mean change from baseline in olanzapine-treated subjects (N = 29, modal daily dose of 15 mg) were 2.3 mg/dL and 3.7 mg/dL compared to -7.7 mg/dL and -3.2 mg/dL in quetiapine-treated subjects (N = 30, modal daily dose of 577 mg) respectively, with a mean exposure of 168 days.

The mean change from impaired baseline (fasting glucose level of 100-125 mg/dl) to endpoint and the highest mean change from baseline in risperidone-treated subjects (N = 40, modal daily dose of 5.3 mg) were -5.5 mg/dL and -2.4 mg/dL compared to -7.7 mg/dL and -3.2 mg/dL in quetiapine-treated subjects (N = 30, modal daily dose of 577 mg) respectively, with a mean exposure of 168 days.

Table 74: Mean glucose (mg/dl) change from 'impaired' baseline ((BL) to end of treatment (EOT) (comparator-controlled trials)
--	---

	QTP	OLZ	QTP	RIS
N	30	29	30	40
Mean (SD) Glucose at BL	107.8 (5.7)	106.1 (5.9)	107.8 (5.7)	107.3 (6.4)
Mean (SD) Glucose at EOT	100.1 (12.1)	103.8 (13.6)	100.1 (12.1)	101.8 (12.1)
Mean (SD) Glucose Change	-7.7 (12.5)	-2.3 (13.3)	-7.7 (12.5)	-5.5 (12.9)
p-value	0.198		0.696	
Mean (SD) Highest Glucose	104.6 (13.5)	109.8 (21.0)	104.6 (13.5)	104.9 (11.8)
Mean (SD) Highest Glucose Change	-3.2 (14.6)	3.7 (20.7)	-3.2 (14.6)	-2.4 (12.6)
Modal (SD) Dose (mg)	576.7 (138.2)	14.8 (3.1)	576.7 (138.2)	5.3 (1.1)
Median Exposure (days)	168	168	168	168

Information obtained from Sponsor table 356 and 376 in clinical Study Report, OLZ-olanzapine, and RIS-risperidone

4. Mean Fasting Glucose Change (mg/dl) from 'High' Baseline

The mean change from high baseline (fasting glucose level of \geq 126 mg/dl) to endpoint and the highest mean change from baseline in olanzapine-treated subjects (N = 1, modal daily dose of 10 mg) were -144 mg/dL and -144 mg/dL compared to -45 mg/dL and -39 mg/dL in quetiapine-treated subjects (N = 2, modal daily dose of 800 mg) respectively, with a mean exposure of 93-169 days.

The mean change from high baseline (fasting glucose level of \geq 126 mg/dl) to endpoint and the highest mean change from baseline in risperidone-treated subjects (N = 3, modal daily dose of 3 mg) were 0 mg/dL and 3.0 mg/dL compared to -45.9 mg/dL and -39.6 mg/dL in quetiapine-treated subjects (N = 2, modal daily dose of 800 mg) respectively, with a mean exposure of 93-169 days.

Table 75: Mean glucose (mg/dl) change from 'high' baseline (BL) to end of treatment (EOT) (comparator-controlled trials)

	QTP	OLZ	QTP	RIS
N	2	1	2	3
Mean (SD) Glucose at BL	148.5 (14.0)	239.4	148.5 (14.0)	144.6 (15.5)
Mean (SD) Glucose at EOT	102.6 (28.0)	95.4	102.6 (28.0)	144.6 (82.3)
Mean (SD) Glucose Change	-45.9 (14.0)	-144.0	-45.9 (14.0)	0
p-value	0.110	-	0.511	-
Mean (SD) Highest Glucose	108.9 (36.9)	95.4	108.9 (36.9)	147.6 (80.1)
Mean (SD) Highest Glucose Change	-39.6 (22.9)	-144.0	-39.6 (22.9)	3.0 (80.9)
Modal (SD) Dose (mg)	800	10	800	5
Median Exposure (days)	93	169	93	168

Information obtained from Sponsor table 354 and 374 in Clinical Study Report, OLZ-olanzapine, and RIS- risperidone

5. Mean Fasting Glucose Change (mg/dl) from 'Any' Baseline by Time (in Weeks)

Please see tables 76 and 77 below for comparison of mean glucose change from baseline and highest glucose change from baseline for quetiapine compared to olanzapine and quetiapine compared to risperidone at the 2, 4, 8, and 12 weeks endpoints.

Table 76: Mean glucose (mg/dl) change from baseline (BL) to end of treatment (EOT), by week (comparator-controlled trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
quetiapine = N	0	5	6	163	136	0
Mean (SD) Glucose at BL	-	84 (19)	89.2 (10.3)	90.7 (11.1)	91.4 (12)	-
Mean (SD) Glucose at EOT	-	87 (11)	94.3 (8.4)	92.3 (11.4)	94.7 (15.8)	=

Mean (SD) Glucose Change	-	2.7 (15)	5.1 (3.5)	1.6 (11.5)	3.2 (15.9)	-
p-value	-	-	0.249	0.081	0.706	-
Modal (SD) Dose (mg)	-	500	600	615	617	-
Median Exposure (days)	-	28	59	85	169	-
olanzapine = N	0	0	1	188	170	1
Mean (SD) Glucose at BL	-	-	95.4	90.0 (14.3)	90.5 (15)	70.0
Mean (SD) Glucose at EOT	-	-	106.2	94.5 (15.0)	94.4 (11.9)	86.0
Mean (SD) Glucose Change	-	-	10.8	4.5 (18.3)	4.0 (15.6)	16.0
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	-	-	30	15	15.0 (3.4)	15.0
Median Exposure (days)	-	-	53	84	168	350
quetiapine = N	0	5	6	163	136	0
Mean (SD) Glucose at BL	-	84.2 (19)	89.2 (10.3)	90.7 (11.1)	91.4 (11.9)	-
Mean (SD) Glucose at EOT	-	87 (11)	94.3 (8.4)	92.3 (11.4)	94.7 (15.8)	-
Mean (SD) Glucose Change	-	2.7 (15)	5.1 (3.5)	1.6 (11.5)	3.2 (15.9)	-
p-value	-	0.746	0.800	0.539	0.863	-
Modal (SD) Dose (mg)	-	500 (141)	600 (167)	614.8 (152)	617 (143)	-
Median Exposure (days)	-	28	58	85	169	-
risperidone = N	1	3	4	108	152	0
Mean (SD) Glucose at BL	81.0	92.5 (12)	85.1 (9.6)	92.5 (13.0)	92.1 (11.7)	-
Mean (SD) Glucose at EOT	91.8	91(9)	88.7 (4.0)	95.0 (14.6)	95.8 (16.4)	-
Mean (SD) Glucose Change	10.8	-1.6 (12)	3.6 (10.9)	2.6 (15.7)	3.7 (13.9)	-
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	94.6 (12.0)	4.7 (1.2)	4.9 (1.3)	4.8 (1.6)	4.8 (1.5)	-
Median Exposure (days)	94.7 (11.6)	30	50	85	169	=

Information obtained from Sponsor table 351 and 371 in Clinical Study Report

Table 77: Highest mean glucose change from baseline (BL), by week (comparator trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
quetiapine = N	108	101	99	164	146	6
Mean (SD) Glucose at BL	92.5 (11)	92.0 (11)	92.0 (10.0)	90.7 (11.1)	91.4 (11.6)	87.6 (8)
Mean (SD) Glucose at EOT	93.2 (11.5)	93.1 (11)	93.4 (11.3)	94.5 (12.0)	98.8 (15.8)	96.0 (12)
Mean (SD) Glucose Change	0.7 (12.4)	1.1 (12)	1.4 (11.4)	3.8 (11.4)	7.4 (15.5)	8.4 (11)
p-value	0.378	0.448	0.342	0.084	0.528	0.246
Modal (SD) Dose (mg)	598 (149)	601 (139)	608 (139)	615 (15)	612 (147)	533 (151)
Median Exposure (days)	1	1	1	84	163	89
olanzapine = N	117	110	109	190	183	9
Mean (SD) Glucose at BL	90.7 (9)	90.0 (9)	90.2 (9.2)	90.1 (14.3)	89.9 (14.6)	80 (7)
Mean (SD) Glucose at EOT	92.5 (14)	92.3 (14)	92.6 (13.9)	96.1 (16.2)	99.3 (16.4)	101 (25)
Mean (SD) Glucose Change	1.9 (12)	2.3 (12)	2.5 (11.6)	6.0 (19.0)	9.4 (19.4)	21 (24)
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	15.4 (3)	16 (3)	16 (3)	15 (4)	15(4)	13 (4)
Median Exposure (days)	1	1	1	84	120	183
			•			
quetiapine = N	108	101	99	164	146	6
Mean (SD) Glucose at BL	92.5 (11.1)	92.0 (11)	92.0 (10.0)	90.7 (11.1)	91.4 (11.6)	87.6 (8)
Mean (SD) Glucose at EOT	93.2 (11.5)	93 (11)	93.4 (11.3)	94.5 (12.0)	98.8 (15.8)	96.0 (12)
Mean (SD) Glucose Change	0.7 (12.4)	1.1 (12)	1.4 (11.4)	3.8 (11.4)	7.4 (15.5)	8.4 (11)
p-value	0.744	0.563	0.635	0.548	0.716	0.747
Modal (SD) Dose (mg)	598.1 (149)	601 (139)	608 (139)	614.7 (152)	612 (147)	533.3 (151)
Median Exposure (days)	1	11	1	84	163	89
risperidone = N	119	107	108	171	161	5
Mean (SD) Glucose at BL	94.6 (12.0)	94.3 (12)	94.2 (11.8)	92.4 (12.9)	91.9 (11.6)	81.8 (2)
Mean (SD) Glucose at EOT	94.7 (11.6)	94.4 (11)	94.3 (11.0)	96.8 (15.3)	100.1 (18)	87.6 (5)
Mean (SD) Glucose Change	0.2 (11.5)	0.1 (12)	0.1 (11.5)	4.3 (15.5)	8.3 (15.7)	5.7 (6.0)
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	5.2 (1.2)	5.2 (1.2)	5.2 (1.3)	4.8 (1.6)	4.7 (1.6)	2.6 (1.1)

57

Median Exposure (days)	1	1	1	84	91	184

Information obtained from Sponsor table 351 and 371 in Clinical Study Report

6. Mean Fasting Glucose Change (mg/dl) from 'Normal' Baseline by Time (in Weeks)

Please see tables 78 and 79 below for comparison of mean glucose change from baseline and highest glucose change from baseline for quetiapine compared to olanzapine and quetiapine compared to risperidone at the 2, 4, 8, and 12 weeks endpoints.

Table 78: Mean glucose (mg/dl) change from 'normal' baseline (BL) to end of treatment (EOT), by week (comparator-controlled trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
quetiapine = N	0	4	6	140	112	0
Mean (SD) Glucose at BL	-	77 (13)	89.2 (10.3)	87.4 (6.9)	87.4 (6.9)	-
Mean (SD) Glucose at EOT	-	86 (13)	94.3 (8.4)	91.0 (10.5)	93.4 (16.2)	-
Mean (SD) Glucose Change	-	8 (10)	5.1 (3.5)	3.6 (9.9)	6.0 (15.0)	-
p-value	-	-	0.249	0.079	0.751	-
Mean Modal (SD) Dose (mg)	-	475 (150)	600 (167)	617 (156.8)	626 (146)	-
Median Exposure (days)	-	25.5	59	85	169	
olanzapine = N	0	0	1	163	146	1
Mean (SD) Glucose at BL	-	-	95.4	86.7 (6.7)	87.0 (6.6)	70.0
Mean (SD) Glucose at EOT	-	-	106.2	92.9 (14.6)	92.5 (10.5)	86.0
Mean (SD) Glucose Change	-	-	10.8	6.1 (15.0)	5.6 (10.1)	16.0
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	-	-	30.0	15.0 (3.7)	15.0 (3.5)	15.0
Median Exposure (days)	-	-	53	84	168	350
		•	•	4	1	
quetiapine = N	0	4	6	140	112	0
Mean (SD) Glucose at BL	-	77.4 (12.9)	89.2 (10.3)	87.4 (6.9)	87.4 (6.9)	-
Mean (SD) Glucose at EOT	-	85.7 (12.7)	94.3 (8.4)	91.0 (10.5)	93.4 (16.2)	-
Mean (SD) Glucose Change	-	8.3 (10.2)	5.1 (3.5)	3.6 (9.9)	6.0 (15.0)	-
p-value	-	0.692	0.800	0.136	0.621	-
Modal (SD) Dose (mg)	-	475 (150)	600 (167)	616.5 (157)	626 (146)	-
Median Exposure (days)	-	26	59	85	169	-
risperidone = N	1	2	4	133	121	0
Mean (SD) Glucose at BL	81.0	85.6 (3.7)	85.1 (9.6)	87.7 (8.0)	87.9 (7.4)	-
Mean (SD) Glucose at EOT	91.8	89.5 (13.4)	88.7 (4.0)	93.5 (14.1)	93.1 (10.6)	-
Mean (SD) Glucose Change	10.8	3.9 (9.8)	3.6 (10.9)	5.8 (13.9)	5.3 (10.4)	-
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	4.0	4.0	4.9 (1.3)	4.6 (1.6)	4.7 (1.6)	-
Median Exposure (days)	17	28	51	85	169	_

Information obtained from Sponsor table 353 and 373 in Clinical Study Report

Table 79: Highest mean glucose change from 'normal' baseline (BL), by week (comparator-controlled trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
quetiapine = N	86	82	81	140	121	5
Mean (SD) Glucose at BL	88.2 (6.5)	88.2 (7)	88.4 (6.6)	87.4 (6.9)	87.5 (6.8)	84.7 (4)
Mean (SD) Glucose at EOT	91.1 (9.3)	91 (9.7)	91.7 (9.6)	92.9 (10.5)	97.4 (15.6)	95 (14)
Mean (SD) Glucose Change	2.9 (9.1)	3.1 (9.4)	3.2 (9.2)	5.5 (9.4)	9.9 (14.3)	11 (11)
p-value	0.908	0.605	0.902	0.085	0.983	0.329
Modal (SD) Dose (mg)	598 (155)	606 (144)	615 (143)	617 (157)	623 (146)	560 (152)
Median Exposure (days)	1	1	1	84	164	86
olanzapine = N	96	93	92	164	158	9
Mean (SD) Glucose at BL	87.3 (6.3)	87 (6)	87.3 (6.4)	86.8 (6.7)	86.5 (6.9)	80.1 (7)
Mean (SD) Glucose at EOT	89.8 (8.7)	89.6 (9)	89.9 (9.0)	94.1 (14.4)	97.2 (14.6)	101 25)
Mean (SD) Glucose Change	2.5 (7.9)	2.5 (7.9)	2.6 (8.0)	7.3 (14.6)	10.8 (14.8)	21 (24)
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	15.5 (3.2)	15.6 (3)	15.7 (3.5)	15.0 (3.7)	14.9 (3.7)	13.3 (4)

Median Exposure (days)	1	1	1	84	120	183
quetiapine = N	86	82	81	140	121	5
Mean (SD) Glucose at BL	88.2 (7)	88.2 (7)	88.4 (6.6)	87.4 (6.9)	87.5 (6.8)	84.7 (4)
Mean (SD) Glucose at EOT	91 (9)	91.3 (9)	91.7 (9.6)	92.9 (10.5)	97.4 (15.6)	95.2 (14)
Mean (SD) Glucose Change	2.9 (9.1)	3.1 (9.4)	3.2 (9.2)	5.5 (9.4)	9.9 (14.3)	10.5 (11)
p-value	0.705	0.776	0.628	0.160	0.768	0.861
Modal (SD) Dose (mg)	597.7 (155)	606 (144)	614.8 (143)	616.5 (157)	622.5 (146)	560 (152)
Median Exposure (days)	1	1	1	84	164	86
risperidone = N	84	77	79	135	129	5
Mean (SD) Glucose at BL	88.8 (8)	88.9 (8)	89.0 (8.3)	87.7 (7.9)	87.7 (7.3)	81.8 (2)
Mean (SD) Glucose at EOT	92.2 (11)	92.4 (11)	92.4 (11.0)	94.7 (15.0)	97.8 (14.4)	87.6 (5)
Mean (SD) Glucose Change	3.5 (10)	3.5 (11)	3.4 (10.5)	7.0 (14.6)	10.1 (13.7)	5.7 (6.0)
p-value	-	-	-	-	=	-
Modal (SD) Dose (mg)	5.2 (1.3)	5.2 (1.3)	5.2 (1.3)	4.6 (1.6)	4.6 (1.6)	2.6 (1.1)
Median Exposure (days)	1	1	1	85	99	184

Information obtained from Sponsor table 353 and 373 in Clinical Study Report

7. *Mean Fasting Glucose Change (mg/dl) from 'Impaired' Baseline by Time (in Weeks)*

Please see tables 80 and 81 below for comparison of mean glucose change from baseline and highest glucose change from baseline for quetiapine compared to olanzapine and quetiapine compared to risperidone at the 2, 4, 8, and 12 weeks endpoints (limited sample size).

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
quetiapine = N	0	1	0	22	23	0
Mean (SD) Glucose at BL	-	111.6	-	108.1 (6.0)	108.3 (5.9)	-
Mean (SD) Glucose at EOT	-	91.8	-	98.0 (12.3)	99.8 (11.6)	-
Mean (SD) Glucose Change	=	-19.8	-	-10.1 (14)	-8.5 (12.9)	-
p-value	=	-	-	0.020	0.076	-
Modal (SD) Dose (mg)	-	600.0	-	596 (117)	565.2 (115)	-
Median Exposure (days)	-	29	-	85	169	-
olanzapine = N	0	0	0	24	23	0
Mean (SD) Glucose at BL	-	-	-	106.2 (6.4)	106.4 (6.5)	-
Mean (SD) Glucose at EOT	-	-	-	105.6 (13)	106.6 (13)	-
Mean (SD) Glucose Change	-	-	-	-0.6 (11.6)	0.2 (13.2)	-
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	-	-	-	14.8 (3.1)	14.8 (2.8)	-
Median Exposure (days)	-	-	-	22	168	-
quetiapine = N	0	1	0	22	23	0
Mean (SD) Glucose at BL	-	111.6	_	108.1 (6.0)	108.3 (5.9)	-
Mean (SD) Glucose at EOT	-	91.8	-	98.0 (12.3)	99.8 (11.6)	-
Mean (SD) Glucose Change	-	-19.8	-	-10.1 (14)	-8.5 (12.9)	-
p-value	-	-	-	0.678	0.618	-
Mean Modal (SD) Dose (mg)	-	600	-	596 (117)	565.2 (115)	-
Median Exposure (days)	-	29	-	85	169	-
risperidone = N	0	1	0	33	29	0
Mean (SD) Glucose at BL	-	106.2	-	107.0 (6.8)	106.9 (7.2)	-
Mean (SD) Glucose at EOT	-	93.6	-	99.1 (10.6)	101.9 (12)	-
Mean (SD) Glucose Change	-	-12.6	-	-7.9 (12.0)	-5.0 (13.4)	-
p-value	-	-	-	-	-	-
Mean Modal (SD) Dose (mg)	-	6	-	5.3 (1.1)	5.3 (1.1)	-
Median Exposure (days)	-	30	-	84	169	-

Information obtained from Sponsor table 357 and 377 in Clinical Study Report

Table 81: Highest mean glucose change from 'impaired' baseline (BL), by week (comparator-controlled trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
quetiapine = N	21	19	18	23	24	1
Mean (SD) Glucose at BL	108.0 (6.1)	108.3 (6)	108.1 (6.2)	107.8 (5.9)	108.2 (5.9)	102.0
Mean (SD) Glucose at EOT	102.3 (15)	101 (15)	101.1 (15)	102.4 (15)	104.6 (14)	100.0
Mean (SD) Glucose Change	-5.7 (15.8)	-7.7 (16)	-7.0 (16.3)	-5.4 (16.2)	-3.6 (15.6)	-2.0
p-value	0.421	0.177	0.220	0.021	0.098	-
Mean Modal (SD) Dose (mg)	591	579	578 (116)	595.7 (115)	550 (135)	400.0
Median Exposure (days)	1	1	1	82	131	204
olanzapine = N	21	17	17	25	24	0
Mean (SD) Glucose at BL	105.9 (5.3)	105.9 (6)	105.9 (5.8)	106.1 (6.3)	106.2 (6.4)	-
Mean (SD) Glucose at EOT	105.1 (22)	107 (24)	107.4 (24)	109.1 (22)	113.0 (21)	-
Mean (SD) Glucose Change	-0.9 (22.0)	1.5 (23)	1.5 (23.4)	3.0 (20.8)	6.8 (21.1)	-
p-value	-	-	-		-	-
Mean Modal (SD) Dose (mg)	15.0 (3.2)	15 (3)	15	14.8 (3.1)	15.0 (2.9)	-
Median Exposure (days)	1	1	1	84	86	-
	21	10	10	22	24	-
quetiapine = N	21	19	18	23	24	1
Mean (SD) Glucose at BL	108.0 (6.1)	108.3 (6)	108.1 (6.2)	107.8 (5.9)	108.2 (5.9)	102.0
Mean (SD) Glucose at EOT	102.3 (15)	100 (15)	101.1 (15)	102.4 (15)	104.6 (14)	100.0
Mean (SD) Glucose Change	-5.7 (15.8)	-7.7 (16)	-7.0 (16.3)	-5.4 (16.2)	-3.6 (15.6)	-2.0
p-value	0.612	0.807	0.707	0.728	0.634	-
Mean Modal (SD) Dose (mg)	590.5 (118)	579 (113)	578 (117)	596(114)	550.0 (135)	400.0
Median Exposure (days)	1	1	1	82	130	204
risperidone = N	34	29	28	33	30	0
Mean (SD) Glucose at BL	107.9 (6.8)	107.5 (7)	107.6 (7.2)	107.0 (6.8)	106.7 (7.1)	-
Mean (SD) Glucose at EOT	100.5 (10)	98.9 (9)	99.1 (9)	102.7 (9.3)	105.3 (12)	-
Mean (SD) Glucose Change	-7.5 (10.5)	-8.6 (9)	-8.4 (9.2)	-4.3 (10.2)	-1.4 (12.7)	-
p-value	-	-	-	=	=	-
Mean Modal (SD) Dose (mg)	5.2 (1.0)	5.2 (1.0)	5.2 (1.0)	5.3 (1.1)	5.3 (1.1)	-
Median Exposure (days)	1	1	1	84	85	-

Information obtained from Sponsor table 357 and 377 in Clinical Study Report

6.2.2 Categorical Analyses

1. Fasting Glucose Increase Outliers

Similar percentages of subjects had shifts in fasting glucose outliers in the quetiapine and active-comparator treatment groups.

Table 82: Proportion of Patients with treatment emergent fasting glucose (mg/dL) change (comparator-controlled trials)

Baseline	Treatment Arm Post-baseline	N =	≥300 N (%)	≥200 N (%)	≥140 N (%)	≥126 N (%)
<100 mg/dL	Quetiapine	166	0	1 (0.6)	1 (0.6)	4 (2.4)
	Olanzapine	182	0	0	4 (2.2)	7 (3.8)
	p-value	•	-	0.477	0.374	0.547
	Quetiapine	166	0	1 (0.6)	1 (0.6)	4 (2.4)
	risperidone 164		0	0	3 (1.8)	7 (4.3)
	p-value		-	1.000	0.370	0.377
≥100 mg/dL and <126 mg/dL	Quetiapine	30	0	0	0	3 (10.0)
	Olanzapine	Olanzapine 29		0	2 (6.9)	4 (13.8)
	p-value	p-value		-	0.237	0.706
	Quetiapine	30	0	0	0	3 (10.0)
	4 m + 1 m p + 1 m +					

	p-value		-	-	-	1.000
	·					
< 126 mg/dL	Quetiapine	196	0	1 (0.5)	1 (0.5)	7 (3.6)
	Olanzapine	211	0	0	6 (2.8)	11 (5.2)
	p-value	p-value		0.482	0.124	0.476
	Quetiapine	196	0	1 (0.5)	1 (0.5)	7 (3.6)
	risperidone	204	0	0	3 (1.5)	11 (5.4)
	p-value		-	0.490	0.623	0.472
Modal (SD) Dose (mg)		QTP - 600 mg vs. OLZ - 15 mg QTP - 600 mg vs. RISP - 4.7 mg				
Median Exposure(days)	QTP – 168 days vs. OI QTP - 168 days vs. R	Z – 168 days				

Information obtained from Sponsor table 360 and 380 in Clinical Study Report

2. Fasting Glucose Increase of more than \geq 10 mg/dL Outliers

Similar percentages of subjects had shifts in fasting glucose ≥ 10 mg/dL outliers in the quetiapine and the active-comparator treated groups.

Table 83: Proportion of Patients with treatment emergent increase in fasting glucose (>10 mg/dL) (comparator-controlled trials)

Baseline	Treatment Arm	N =	>10 mg/dL increase post-baseline n (%)			
Any value	quetiapine	198	65 (32.8)			
	olanzapine	212	83 (39.2)			
	p-value = 0.217	•				
	quetiapine	198	65 (32.8)			
	risperidone	207	63 (30.4)			
	p-value = 0.669		-			
<100 mg/dL	quetiapine	166	60 (36.1)			
	olanzapine	182	77 (42.3)			
	p-value = 0.272	-	1			
	quetiapine	166	60 (36.1)			
	risperidone	164	58 (35.4)			
	p-value = 0.909					
≥100 mg/dL and <126 mg/dL	quetiapine	30	5 (16.7)			
	olanzapine	29	6 (20.7)			
	p-value = 0.748					
	Quetiapine	30	5 (16.7)			
	risperidone	40	4 (10.0)			
	p-value = 0.483					
<126 mg/dL	quetiapine	2	0			
	olanzapine	1	0			
	p-value = -					
	quetiapine	2	0			
	risperidone	3	1 (33.3)			
	p-value = 1.000	I				
Modal (SD) Dose (mg)	QTP – 603 mg vs. OLZ					
	QTP - 602 mg vs. RISI					
Median Exposure(days)	QTP – 168 days vs. OLZ QTP - 168 days vs. RIS					

Information obtained from Sponsor table 361 and 381 in Clinical Study Report

3. Fasting HbA1c (%) Increase of more than \geq 6.1 Outliers

Olanzapine-treated subjects (N = 255, modal daily dose of 13 mg) had a greater mean HbA1c increase from baseline of 4.7% compared to a mean HbA1c increase of 2.5% in quetiapine-treated subjects (N = 240, modal daily dose of 563 mg) with a median exposure of 198-321 days.

Risperidone-treated subjects (N = 241, modal daily dose of 4.3 mg) had a greater mean HbA1c increase from baseline of 3.3% compared to a mean HbA1c increase of 2.5 % in quetiapine-treated subjects (N = 240, modal daily dose of 590 mg) with a median exposure of 168 days.

Table 84: Proportion of Patients with treatment emergent fasting HbA1c (%) increase (comparator-controlled trials)

Baseline	Treatment Arm Post-baseline	N =	≥ 6.1 N (%)	≥8 N (%)	≥10 N (%)	≥12 N (%)
HbA1c(%) <6.1	Quetiapine	240	6 (2.5)	1 (0.4)	0	0
	Olanzapine	255	12 (4.7)	1 (0.4)	0	0
	p-value =		0.233	1.000	-	-
	Quetiapine	240	6 (2.5)	1 (0.4)	0	0
	risperidone	241	8 (3.3)	0	0	0
	p-value =		0.787	0.499	-	-
Modal (SD)	QTP – 563 mg vs. OLZ – 13 mg					
Dose (mg)	QTP - 590 mg vs. RISP - 4.3 mg					
Median Exposure(days)	QTP – 321 days vs. OLZ – 198 days					
	QTP - 168 days vs. RISP - 168 days					

Information obtained from Sponsor table 362 and 382 in Clinical Study Report

4. Glycosuria Outliers

About 2.3% of quetiapine-treated subjects (N = 221, modal daily dose of 588 mg) had greater treatment emergent glycosuria (any amount of glucose seen in urine from baseline) compared to 1.7% in olanzapine-treated subjects (N = 238) with a median exposure of 335-337 days.

About 2.7% of risperidone-treated subjects (N = 222, modal daily dose of 588 mg) had greater treatment emergent glycosuria (any amount of glucose seen in urine from baseline) compared to 2.3 % in quetiapine-treated subjects (N = 221) with a median exposure of 169 days.

Table 85: Proportion of Patients with treatment emergent glycosuria (comparator-controlled trials)

Baseline	Treatment Arm Post-baseline	N =	N(%)
Glycosuria	Quetiapine	221	5 (2.3)
	Olanzapine	238	4 (1.7)
	Quetiapine	221	5 (2.3)
	Risperidone	222	6 (2.7)
Modal (SD) Dose (mg)	QTP - 588 mg vs. OLZ - 14 mg QTP - 588 mg vs. RISP - 4.3 mg	•	
Median Exposure(days)	QTP – 337 days vs. OLZ – 335 days		
	QTP - 169 days vs. RISP -169 days		

Information obtained from Sponsor table 363 and 383 in Clinical Study Report

About 16% of quetiapine-treated subjects (N = 98, mean daily dose of 265 mg) had treatment emergent glycosuria (any amount of glucose seen in urine from baseline) compared to 6.7 % in haloperidol-treated subjects (N = 89) with a median exposure of 56 days.

Table 86: Proportion of Patients with treatment emergent glycosuria (haloperidol-controlled trials)

Baseline	Treatment Arm Post-baseline	N =	N (%)
Glycosuria	Quetiapine	98	16 (16.3)
	haloperidol	89	6 (6.7)
Modal (SD) Dose (mg)	Quetiapine - 264.8 (157.4) / haloperidol	- 8.1 (4.7)	
Median Exposure(days)	56		

Information obtained from Sponsor table 343 in Clinical Study Report

6.3 Adults Subjects in Long Term Controlled and Uncontrolled Clinical Trials

6.3.1 Mean Change Analyses

1. Mean Glucose Change (in mg/dl) from All subjects at any baseline glucose level

The mean change from baseline (any glucose level) to endpoint and the highest mean change from baseline in quetiapine-treated subjects (N = 8567, modal daily dose of 379 mg) was 2.9 mg/dL and 6.1 mg/dL with a mean exposure of 71 days.

Table 87: Mean glucose change (in mg/dl) from baseline (BL) to end of treatment (EOT) (all QTP trials)

	QTP	
N	8567	
Mean (SD) Glucose at BL	92.4 (14.6)	
Mean (SD) Glucose at EOT	95.3 (19.5)	
Mean (SD) Glucose Change	2.9 (17.7)	
p-value	-	
Mean (SD) Highest Glucose	98.6 (20.9)	
Mean (SD) Highest Glucose Change	6.1 (18.8)	
Modal (SD) Dose (mg)	379 (234)	
Median Exposure (days)	71	

Information obtained from Sponsor table 390 in Clinical Study Report

2. Mean Glucose Change (in mg/dl) from 'Normal Fasting Glucose' (<100 mg/dL) at Baseline

The mean change from normal baseline (fasting glucose level of <100 mg/dl) to endpoint and the highest mean change from baseline in quetiapine-treated subjects (N = 6832, modal daily dose of 373 mg) was 4.6 mg/dL and 7.6 mg/dL with a mean exposure of 71 days.

Table 88: Mean glucose change (in mg/dl) from 'normal' baseline (BL) to end of treatment (EOT) (all QTP trials)

QTP
6832
87.3 (7.2)
91.9 (14.0)
4.6 (14.1)
-
94.9 (15.3)
7.6 (15.4)
373 (232)
71

Information obtained from Sponsor table 392 in Clinical Study Report

3. Mean Glucose Change (in mg/dl) from 'Impaired Fasting Glucose' (100-125 mg/dL) at Baseline

The mean change from impaired baseline (fasting glucose level of 100-125 mg/dl) to endpoint and the highest mean change from baseline in quetiapine-treated subjects (N = 1511, modal daily dose of 395 mg) was-2.5 mg/dL and 1.0 mg/dL with a mean exposure of 75 days.

Table 89: Mean glucose change from impaired fasting glucose at baseline (BL) to end of treatment (EOT) (all QTP trials)

	QTP
N	1510
Mean (SD) Glucose at BL	107.0 (6.3)
Mean (SD) Glucose at EOT	104.5 (20.9)
Mean (SD) Glucose Change	-2.5 (20.3)
p-value	-
Mean (SD) Highest Glucose	108.0 (21.3)
Mean (SD) Highest Glucose Change	1.0 (20.6)
Modal (SD) Dose (mg)	395.3 (239.9)
Median Exposure (days)	75

Information obtained from Sponsor table 396 in Clinical Study Report

4. Mean Glucose Change (in mg/dl) from 'High Fasting Glucose' (≥126 mg/dL) at Baseline

The mean change from high baseline (fasting glucose level of \geq 126 mg/dl) to endpoint and the highest mean change from baseline in quetiapine-treated subjects (N = 225, modal daily dose of 449 mg) were -12.2 mg/dL and -4.3 mg/dL with a mean exposure of 71 days.

Table 90: Mean glucose change (in mg/dl) from 'high' baseline (BL) to end of treatment (EOT) (all QTP trials)

	QTP	
N	225	
Mean (SD) Glucose at BL	149.8 (27.4)	
Mean (SD) Glucose at EOT	137.5 (54.0)	
Mean (SD) Glucose Change	-12.2 (50.8)	
p-value	-	
Mean (SD) Highest Glucose	145.5 (57.1)	
Mean (SD) Highest Glucose Change	-4.3 (54.5)	
Modal (SD) Dose (mg)	449 (235)	
Median Exposure (days)	71	

Information obtained from Sponsor table 394 in Clinical Study Report

5. Mean Fasting Glucose Change (in mg/dl) from All subjects at any baseline glucose level by Time (in Weeks)

The mean change from baseline (any fasting glucose level) to endpoints (in weeks) in quetiapine-treated subjects showed -1.7, 2.8, 3, 3, 4 and 5 mg/dl at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 91: Mean glucose change (in mg/dl) from baseline (BL) to end of treatment (EOT), by week (all QTP trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
Seroquel = N	121	2741	2360	2963	788	201
Mean (SD) Glucose at BL	92 (12)	92 (14)	93 (14)	92 (14)	93 (15)	93 (13)
Mean (SD) Glucose at EOT	93 (12)	95 (20)	95 (20)	95 (18)	96 (21)	98 (17)
Mean (SD) Glucose Change	1.7 (11)	2.8 (18)	3 (17)	3 (17)	4 (21)	5 (17)
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	362 (231)	317 (223)	339 (216)	436 (234)	491(214	397 (203)

Median Exposure (days)	15	29	57	84	169	337

Information obtained from Sponsor table 391 in Clinical Study Report

The mean change from any baseline (any fasting glucose level) to the highest mean change in quetiapine-treated subjects showed -0.6, 3, 5, 4, 7 and 10 mg/dl at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 92: Highest mean glucose change (in mg/dl) from baseline (BL), by week (all QTP trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
Seroquel = N	526	2924	3805	3385	2188	1045
Mean (SD) Glucose at BL	94 (17)	92 (14)	93 (15)	93 (15)	93 (15)	93 (14)
Mean (SD) Highest Glucose	93 (17)	95 (20)	98 (20)	96 (18)	100 (20)	102 (21)
Mean (SD) Highest Glucose Change	-0.6 (16)	3(18)	5 (18)	4 (17)	7 (19)	10 (20)
p-value	-	-	-	-	-	
Modal (SD) Dose (mg)	410 (243)	328 (226)	365 (225)	438 (231)	397(233	357(215)
Median Exposure (days)	8	29	46	83	113	228

Information obtained from Sponsor table 391 in Clinical Study Report

6. Mean Glucose Change (in mg/dl) from 'Normal Fasting Glucose' (<100 mg/dL) at Baseline by Time (in Weeks)

The mean change from normal baseline (fasting glucose level of <100 mg/dl) to endpoints (in weeks) in quetiapine-treated subjects showed 3.8, 4.4, 3.9, 5, 7 and 8 mg/dl at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 93: Mean glucose change (in mg/dl) from 'normal' baseline (BL) to end of treatment (EOT), by week (all quetiapine trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
Seroquel = N	95	2242	1872	2349	624	153
Mean (SD) Glucose at BL	86.9 (7.1)	87.4 (7.0)	87.5 (7.2)	87 (7.4)	87 (6.9)	87 (6)
Mean (SD) Glucose at EOT	90.7 (9.9)	91.8 (15.2)	91.4 (12.7)	92 (13)	94 (18.3)	95 (16)
Mean (SD) Glucose Change	3.8 (9.6)	4.4 (15.4)	3.9 (12.7)	5 (13.8)	7(18.1)	8(15.4)
p-value	-	-	-	-		-
Modal (SD) Dose (mg)	352 (234)	311 (218)	330 (212)	435 (234)	7(18.1)	385 (194)
Median Exposure (days)	15	29	57	84	169	337

Information obtained from Sponsor table 393 in Clinical Study Report

The mean change from any normal baseline (fasting glucose level of < 100 mg/dl) to the highest mean change in quetiapine-treated subjects showed 2.1, 4.5, 6.5, 6, 9 and 12 mg/dl at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 94: Highest mean glucose change (in mg/dl) from 'normal' baseline (BL), by week (all QTP trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
Seroquel = N	409	2386	3017	2664	1724	810
Mean (SD) Glucose at BL	87.8 (7)	87.5 (7)	87.4 (7.2)	87 (7.3)	87 (7)	88 (7)
Mean (SD) Highest Glucose	90 (11.3)	91.9 (15)	93.9 (13.3)	93 (13.6)	97 (16)	99 (17)
Mean (SD) Highest Glucose Change	2.1 (11)	4.5 (15)	6.5 (13.5)	6(13.9)	9 (16)	12 (17)
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	416(246)	323 (222)	356 (222)	437 (231)	398(234)	349 (213)
Median Exposure (days)	7	29	46	83	114	232

Information obtained from Sponsor table 393 in Clinical Study Report

7. Mean Glucose Change (in mg/dl) from 'Impaired Fasting Glucose' (100 -125 mg/dL) at Baseline by Time (in Weeks)

The mean change from impaired baseline (fasting glucose level of \geq 125 mg/dl) to endpoints (in weeks) in quetiapine-treated subjects showed -5.6, -4.5, -1.9,-2, -4.6 and -3.3 mg/dl at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 95: Mean glucose change (in mg/dl) from 'impaired' baseline (BL) to end of treatment (EOT), by week (all QTP trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
Seroquel = N	24	432	430	536	143	43
Mean (SD) Glucose at BL	106.9 (5.9)	107.6 (6.7)	107.2 (6.6)	106.9 (6)	108(6.1)	108.0 (7)
Mean (SD) Glucose at EOT	101.3 (11)	103(18.5)	105 (22.8)	104(20.0)	103 (23)	105 (11)
Mean (SD) Glucose Change	-5.6 (9.9)	-4.5 (17.8)	-1.9 (21.7)	-2 (19.5)	-4.6 (24)	-3.3 (13)
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	404 (225.0)	330 (236.3)	365(228)	438(239)	489 (200)	443 (231)
Median Exposure (days)	15	29	57	84	169	337

Information obtained from Sponsor table 397 in Clinical Study Report

The mean change from any impaired baseline (fasting glucose level of 100 - 125 mg/dl) to the highest mean change in quetiapine-treated subjects showed -6.8, -4.3,-0.2, -1.4, 1.9 and 3 mg/dl at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 96: Highest mean glucose change (in mg/dl) from 'impaired' baseline (BL), by week (all QTP trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
Seroquel = N	101	465	688	630	405	207
Mean (SD) Glucose at BL	107(6.1)	107.5 (6)	107.3 (6.5)	107(6.3)	107 (6)	106 (6)
Mean (SD) Highest Glucose	100 (14)	103 (18)	107 (20.9)	106 (19)	109(20)	109 (15)
Mean (SD) Highest Glucose Change	-6.8 (13)	-4.3 (18)	-0.2 (19.8)	-1.4 (19)	1.9(20)	3(15)
p-value	-	-	-	-	-	-
Mean Modal (SD) Dose (mg)	388(238)	343 (238)	390 (232.5)	439 (235)	392(232	387(227)
Median Exposure (days)	8	29	50	83	113	212

Information obtained from Sponsor table 397 in Clinical Study Report

8. Mean Glucose Change (in mg/dl) from 'High Fasting Glucose' (\geq 126 mg/dL) at Baseline by Time (in Weeks)

The mean change from any impaired baseline (fasting glucose level of 100 - 125 mg/dl) to the highest mean change in quetiapine-treated subjects showed -14, -4, -2,-21, -24 and -11 mg/dl at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 97: Mean glucose change (in mg/dl) from 'high' baseline (BL) to end of treatment (EOT), by week (all QTP trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
Seroquel = N	2	67	58	78	21	5
Mean (SD) Glucose at BL	139.5 (3.8)	148 (22.7)	146.6 (29)	148 (24)	150 (28)	140 (14)
Mean (SD) Glucose at EOT	126.0 (31)	144 (51.3)	145(52.4)	127.(49)	126 (38)	129(35)
Mean (SD) Glucose Change	-13.5 (34)	-3.5 (49.0)	-1.9 (50.5)	-21 (41)	-24 (49)	-11(45)
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	350 (71)	422(269.7)	434(214.5)	478(223)	483 (225)	360(227)
Median Exposure (days)	15	29	57	83	169	338

Information obtained from Sponsor table 395 in Clinical Study Report

The mean change from any high baseline (fasting glucose level of \geq 125 mg/dl) to the highest mean change in quetiapine-treated subjects showed -29, -6, 0, -20, -9 and 3 mg/dl at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 98: Highest mean glucose change (in mg/dl) from 'high' baseline (BL), by week (all QTP trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
Seroquel = N	16	73	100	91	59	28

Mean (SD) Glucose at BL	162 (41)	150 (27)	148 (29)	149 (27)	149(26)	144 (27)
Mean (SD) Highest Glucose	132 (53)	144 (53)	148 (57.5)	129 (51)	139(40)	147(53)
Mean (SD) Highest Glucose Change	-29 (57)	-6.4 (52)	0.0 (57.1)	-20 (42)	-9 (46)	3.(58)
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	403 (217)	417 (265)	468.0 (240)	475 (218)	425(221	375.(191)
Median Exposure (days)	7	29	50	81	108	214

Information obtained from Sponsor table 395 in Clinical Study Report

6.3 2 Categorical Analyses

1. Fasting Glucose Increase Outliers

In the Quetiapine-treated subjects (modal daily dose of 376 mg, median exposure of 71 days) 4.7% had treatment emergent increase in glucose from <126 mg/dl at baseline to >126 mg/dl post baseline. 12% had treatment emergent increase in glucose from >100 - <126 mg/dl at baseline to >126 mg/dl post baseline; and 5.9% had >140 mg post-baseline.

Table 99: Proportion of Patients with treatment emergent fasting glucose change (in mg/dL) (all QTP trials)

Baseline	Treatment Arm Post-baseline	N =	≥300 N (%)	≥200 N (%)	≥140 N (%)	≥126 N (%)
<100 mg/dL	Quetiapine	6832	3 (0.0)	15 (0.2)	97 (1.4)	210 (3.1)
≥100 mg/dL and <126 mg/dL	Quetiapine	1510	3 (0.2)	13 (0.9)	89 (5.9)	184 (12.2)
<126 mg/dL	Quetiapine	8342	6 (0.1)	28 (0.3)	186 (2.2)	394 (4.7)
Modal (SD) Dose (mg)	376.9 (233.4)					
Median Exposure(days)	71		•			

Information obtained from Sponsor table 400 in Clinical Study Report

2. Fasting Glucose Increase of more than $\geq 10 \text{ mg/dL Outliers}$

30 % of Quetiapine-treated subjects (modal daily dose of 379 mg, median exposure of 71 days) showed treatment emergent increase in glucose (≥10 mg/dL) regardless of the baseline glucose value.

Table 100: Proportion of Patients with treatment emergent increase (≥10 mg/dL) in fasting glucose (all QTP trials)

Baseline	Treatment Arm	N =	≥10 mg/dL increase post-baseline n (%)
Any value	Quetiapine	8567	2597 (30.3)
<100 mg/dL	Quetiapine	6832	2221 (32.5)
≥100 mg/dL and <126 mg/dL	Quetiapine	1510	305 (20.2)
<126 mg/dL	Quetiapine	225	71 (31.6)
Modal (SD) Dose (mg)	378.8 (233.8)		
Median Exposure(days)	71		

Information obtained from Sponsor table 401 in Clinical Study Report

3. Fasting HbA1c (%) Increase of more than \geq 6.1 Outliers

About 6 % of quetiapine-treated (N = 8698, modal daily dose of 394 mg) subjects had a treatment emergent HbA1c increase (> 6.1%) from baseline with a median exposure of 72 days.

Table 101: Proportion of Patients with treatment emergent fasting HbA1c (%) increase (all QTP trials)

Baseline	Treatment Arm Post-baseline	N =	≥ 6.1 N (%)	≥8 N (%)	≥10 N (%)	≥12 N (%)
HbA1c(%) <6.1	Quetiapine	8698	526 (6.0)	5 (0.1)	1 (0.0)	0
Modal (SD) Dose in mg	394.4 (249.4)			•	•	
Median Exposure(days)	72					

4. Glycosuria Outliers

About 3.2% of quetiapine-treated subjects (N = 5679, modal daily dose of 507 mg with median exposure of 77 days) had treatment emergent glycosuria (any amount of glucose seen in urine).

Table 102: Proportion of Patients with treatment emergent glycosuria (all QTP trials)

Baseline	Treatment Arm Post-baseline	N =	N (%)
Glycosuria	Quetiapine	5679	179 (3.2)
Modal (SD) Dose (mg)	507.2 (200.0)		
Median Exposure(days)	77		

Information obtained from Sponsor table 403 in Clinical Study Report

6.4 Antipsychotic-Naïve Subjects in Placebo-Controlled Trials

6.4.1 Mean Change Analyses

1. Mean Glucose Change (in mg/dl) from All subjects at any baseline glucose level

The mean change from baseline (any glucose level) to endpoint and the highest mean change from baseline in quetiapine-treated subjects (N = 1652, modal daily dose of 180 mg) were 1.2 mg/dL and 4.6 mg/dL compared to 1.6 mg/dL and 4.4 mg/dL in placebo-treated subjects (N = 890) respectively, with a mean exposure of 56 days.

Table 103: Mean glucose change (mg/dl) from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials)

QTP	Placebo
1652	890
91.2 (12.1)	91.0 (13.2)
92.5 (14.4)	92.4 (15.6)
1.2 (13.8)	1.4 (12.7)
0.654	-
95.8 (14.9)	95.9 (16.0)
4.6 (14.3)	4.8 (12.9)
179.4 (118.8)	-
56	56
	1652 91.2 (12.1) 92.5 (14.4) 1.2 (13.8) 0.654 95.8 (14.9) 4.6 (14.3) 179.4 (118.8)

Information obtained from Sponsor table 441 in Clinical Study Report

2. Mean Glucose Change (in mg/dl) from 'Normal Fasting Glucose' (<100 mg/dL) at Baseline

The mean change from normal baseline (fasting glucose level of <100 mg/dl) to endpoint and the highest mean change from baseline in quetiapine-treated subjects (N = 1378, mean daily dose of 181 mg) were 3 mg/dL and 6 mg/dL compared to 3 mg/dL and 6 mg/dL in placebo-treated subjects (N = 740) respectively, with a mean exposure of 56 days.

Table 104: Mean glucose change (mg/dl) from 'normal' baseline to end of treatment (EOT) (naïve subjects, placebo-controlled trials)

	QTP	Placebo
N	1378	740
Mean (SD) Glucose at BL	87.4 (7.0)	87.0 (7.2)
Mean (SD) Glucose at EOT	90.1 (11.2)	89.8 (10.3)
Mean (SD) Glucose Change	2.7 (11.5)	2.8 (10.9)
p-value	0.732	-

Mean (SD) Highest Glucose	93.5 (12.0)	93.0 (10.7)	
Mean (SD) Highest Glucose Change	6.1 (12.2)	6.0 (11.2)	
Modal (SD) Dose (mg)	181.3 (121.4)	-	
Median Exposure (days)	56	56	

Information obtained from Sponsor table 442 in Clinical Study Report

3. Mean Glucose Change (in mg/dl) from 'Impaired Fasting Glucose' (100-125 mg/dL) at Baseline

The mean change from impaired baseline (fasting glucose level of 100-125 mg/dl) to endpoint and the highest mean change from baseline in quetiapine-treated subjects (N = 252, modal daily dose of 171 mg) were -5.4 mg/dL and -2.3 mg/dL compared to -5.9 mg/dL and -1.1 mg/dL in placebo-treated subjects (N = 137) respectively, with a mean exposure of 56 days.

Table 105: Mean glucose change from' Impaired' baseline to end of treatment (naïve subjects, placebo-controlled trials)

	QTP	Placebo
N	252	137
Mean (SD) Glucose (mg/dl) at Baseline	107.4 (6.4)	107.4 (6.5)
Mean (SD) Glucose (mg/dl)at End of treatment	101.9 (18.0)	101.5 (15.1)
Mean (SD) Glucose (mg/dl) Change	-5.4 (17.4)	-5.9 (14.7)
p-value	0.639	
Mean (SD) Highest Glucose(mg/dl)	105.1 (17.5)	106 2 (15 7)
Mean (SD) Highest Glucose(Hig/ul)	103.1 (17.3)	106.3 (15.7)
Mean (SD) Highest Glucose (mg/dl) Change	-2.3 (16.9)	-1.1 (15.3)
· / · · · · · · · · · · · · · · · · · ·	` '	` '
· / · · · · · · · · · · · · · · · · · ·	` '	` '

Information obtained from Sponsor table 446 in Clinical Study Report

4. Mean Glucose Change (in mg/dl) from High Fasting Glucose' (≥ 126 mg/dL) at Baseline

The mean change from high baseline (fasting glucose level of \geq 126 mg/dl) to endpoint and the highest mean change from baseline in quetiapine-treated subjects (N = 22, modal daily dose of 448 mg) were-15 mg/dL and -10 mg/dL compared to-4 mg/dL and -1 mg/dL in placebo-treated subjects (N = 13) respectively, with a mean exposure of 55-56 days.

Table 106: Mean glucose change (mg/dl) from 'high' baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials)

	QTP	Placebo	•
N	22	13	
Mean (SD) Glucose at BL	145.9 (23.2)	149.1 (38.0)	
Mean (SD) Glucose at EOT	130.9 (35.5)	145.5 (66.8)	
Mean (SD) Glucose Change	-15.0 (43.7)	-3.6 (38.0)	
p-value	0.555		
Mean (SD) Highest Glucose	136.1 (34.9)	148.0 (66.2)	
Mean (SD) Highest Glucose Change	-9.8 (44.6)	-1.1 (37.5)	
Modal (SD) Dose (mg)			
Median Exposure (days)	55	56	

Information obtained from Sponsor table 444 in Clinical Study Report

5. Mean Glucose Change (in mg/dl) from All subjects at any baseline glucose level by Time (in Weeks)

The mean change from baseline (any fasting glucose level) to endpoints (in weeks) in quetiapine-treated subjects showed 1, 2, 0.7, and -7 mg/dl compared to 10, 2, 1, and 0 mg/dl in placebotreated subjects at 2, 4, 8, and 12 weeks, respectively.

Table 107: Mean glucose change from baseline (BL) to end of treatment (EOT), by week (naïve subjects, placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
Seroquel = N	21	1376	835	3
Mean (SD) Glucose at BL	91.6 (9.9)	91.2 (11.9)	91.6 (11.0)	105.6 (16.3)
Mean (SD) Glucose at EOT	92.7 (12.3)	93.4 (14.4)	92.3 (13.6)	99.6 (12.0)
Mean (SD) Glucose Change	1.1 (9.3)	2.3 (14.1)	0.7 (12.6)	-6.0 (5.5)
p-value	0.216	0.470	0.459	-
Mean Modal (SD) Dose (mg)	197.6 (162.4)	181.4 (119.7)	161.3 (87.7)	83.3 (57.7)
Median Exposure (days)	15	29	57	71
Placebo = N	6	731	492	1
Mean (SD) Glucose at BL	94.5 (13.8)	91.1 (13.4)	92.0 (15.0)	77.4
Mean (SD) Glucose at EOT	104.4 (5.7)	92.8 (12.9)	93.3 (17.5)	77.4
Mean (SD) Glucose Change	9.9 (10.5)	1.7 (13.4)	1.3 (13.3)	0
p-value	=	-	-	-
Modal (SD) Dose (mg)	-	-	-	-
Median Exposure (days)	15	29	57	71

Information obtained from Sponsor table 441 in Clinical Study Report

The mean change from any baseline (any fasting glucose level) to the highest mean change in quetiapine-treated subjects showed -4, 2, 5, and 2 mg/dl compared to 5, 2, 5, and 11 mg/dl in placebo-treated subjects at 2, 4, 8, and 12 weeks, respectively.

Table 108: Highest mean glucose change (in mg/dl) at baseline (BL), by week (naïve subjects, placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
Seroquel = N	108	1393	1288	18
Mean (SD) Glucose at BL	95.5 (15.3)	91.2 (12.0)	91.0 (11.4)	94.3 (14.3)
Mean (SD) Highest Glucose	91.7 (16.6)	93.4 (14.3)	96.5 (14.0)	96.6 (12.1)
Mean (SD) Highest Glucose Change	-3.8 (17.2)	2.2 (14.1)	5.4 (13.2)	2.3 (9.8)
p-value	0.032	0.494	1.000	0.105
Mean Modal (SD) Dose (mg)	170.4 (93.2)	180.9 (119.7)	179.1 (121.0)	138.9 (99.3)
Median Exposure (days)	8	29	43	64
Placebo = N	71	738	697	10
Mean (SD) Glucose at BL	91.8 (12.8)	91.1 (13.4)	91.2 (13.7)	86.0 (10.0)
Mean (SD) Highest Glucose	96.8 (16.2)	92.8 (12.8)	96.3 (16.3)	96.7 (15.6)
Mean (SD) Highest Glucose Change	5.0 (15.1)	1.7 (13.3)	5.1 (12.7)	10.6 (7.0)
p-value	-	-	-	-
Modal (SD) Dose (mg)	-	-	-	-
Median Exposure (days)	9	29	43	58

Information obtained from Sponsor table 441 in Clinical Study Report

6. Mean Glucose Change (in mg/dl) from 'Normal Fasting Glucose' (<100 mg/dL) at Baseline by Time (in Weeks)

The mean change from normal baseline (fasting glucose level of <100 mg/dl) to endpoints (in weeks) in quetiapine-treated subjects showed 1, 4, 2, and -4 mg/dl compared to 14, 3, 3, and 0 mg/dl in placebo-treated subjects at 2, 4, 8, and 12 weeks, respectively.

Table 109: Mean glucose change from 'normal' baseline (BL) to end of treatment, by week (naïve subjects, placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
Seroquel = N	16	1154	691	2
Mean (SD) Glucose at BL	87.3 (6.3)	87.4 (6.9)	87.9 (6.8)	96.3 (3.8)
Mean (SD) Glucose at EOT	88.7 (9.9)	91.3 (11.9)	89.9 (10.6)	92.7 (1.3)

Mean (SD) Glucose Change	1.3 (9.7)	3.9 (12.1)	2.0 (10.5)	-3.6 (5.1)
p-value	0.149	0.326	0.138	-
Modal (SD) Dose (mg)	178.1 (93.0)	183.2 (122.6)	162.7 (88.7)	100.0 (71)
Median Exposure (days)	14	29	57	71
Placebo = N	4	610	401	1
Mean (SD) Glucose at BL	87.3 (8.1)	87.1 (7.2)	87.2 (7.3)	77.4
Mean (SD) Glucose at EOT	101.7 (2.3)	90.4 (10.6)	90.3 (10.4)	77.4
Mean (SD) Glucose Change	14.4 (9.9)	3.3 (11.1)	3.1 (11.1)	0
p-value	-	-	-	-
Modal (SD) Dose (mg)	-	-	-	-
Median Exposure (days)	15	29	57	71

Information obtained from Sponsor table 443 in Clinical Study Report

The mean change from any normal baseline (fasting glucose level of < 100 mg/dl) to the highest mean change in quetiapine-treated subjects showed -0.8, 4.5, 7, and 5.0 mg/dl compared to 7, 3, 7, and 9 mg/dl in placebo-treated subjects at 2, 4, 8, and 12 weeks, respectively.

Table 110: Highest mean glucose change (in mg/dl) at 'normal' baseline (BL), by week (naïve subjects, placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
Seroquel = N	77	1166	1074	13
Mean (SD) Glucose at BL	88.7 (7.4)	87.4 (6.9)	87.3 (6.9)	87.9 (10.2)
Mean (SD) Highest Glucose	87.9 (13.3)	91.3 (11.9)	94.2 (11.5)	93.3 (11.6)
Mean (SD) Highest Glucose Change	-0.8 (13.9)	3.9 (12.1)	6.9 (11.6)	5.4 (8.2)
p-value	0.127	0.299	0.896	0.385
Modal (SD) Dose (mg)	167.5 (79.0)	182.9 (122.7)	181.7 (124.2)	157.7 (107.7)
Median Exposure (days)	8	29	43	64
Placebo = N	44	617	582	9
Mean (SD) Glucose at BL	86.3 (7.3)	87.1 (7.2)	87.1 (7.1)	83.6 (6.8)
Mean (SD) Highest Glucose	92.8 (11.7)	90.5 (10.6)	93.5 (10.4)	92.6 (9.4)
Mean (SD) Highest Glucose Change	6.5 (12.7)	3.4 (11.0)	6.4 (10.8)	9.0 (5.0)
p-value	=	-	-	-
Modal (SD) Dose (mg)	=	-	-	-
Median Exposure (days)	8	29	43	58

Information obtained from Sponsor table 443 in Clinical Study Report

7. Mean Glucose Change (in mg/dl) from 'Impaired Fasting Glucose' (100 -125 mg/dL) at Baseline by Time (in Weeks)

The mean change from impaired baseline (fasting glucose level of \geq 125 mg/dl) to endpoints (in weeks) in quetiapine-treated subjects showed 0.4, -6, -6, and -11 mg/dl at 2, 4, 8, and 12 weeks respectively, compared to placebo-treated subjects 0.9 at 2 weeks, -4.5 at 4 weeks and -6.5 at 8 weeks.

Table 111: Mean glucose change from 'impaired' baseline (BL) to end of treatment, by week (naïve subjects, placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
Seroquel = N	5	205	133	1
Mean (SD) Glucose at BL	105.5 (4.7)	107.7 (6.6)	107.2 (6.4)	124.2
Mean (SD) Glucose at EOT	105.8 (10.5)	102.0 (16.6)	101.7 (16.5)	113.4
Mean (SD) Glucose Change	0.4 (8.9)	-5.7 (16.4)	-5.5 (15.8)	-10.8
p-value	-	0.540	0.401	-
Modal (SD) Dose (mg)	260.0 (305.0)	173.9 (104.9)	155.3 (82.6)	50
Median Exposure (days)	15	29	57	74
Placebo = N	2	111	80	0
Mean (SD) Glucose at BL	108.9 (11.5)	107.7 (6.6)	107.7 (6.4)	-
Mean (SD) Glucose at EOT	109.8 (7.6)	103.2 (14.4)	101.3 (13.4)	-
Mean (SD) Glucose Change	0.9 (3.8)	-4.5 (13.3)	-6.5 (13.4)	-
p-value	-	-	-	-

Modal (SD) Dose (mg)	-	-	-	-
Median Exposure (days)	15	29	57	-

Information obtained from Sponsor table 447 in Clinical Study Report

The mean change from any impaired baseline (fasting glucose level of 100 - 125 mg/dl) to the highest mean change in quetiapine-treated subjects showed -10, -6, -1.6, and -6 mg/dl compared to -2,-5, -1 and 25 mg/dl in placebo-treated subjects at 2, 4, 8, and 12 weeks, respectively.

Table 112: Highest mean glucose change (in mg/dl) at 'impaired' baseline (BL), by week (naïve subjects, placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
Seroquel = N	27	209	198	5
Mean (SD) Glucose at BL	107.1 (5.9)	107.7 (6.6)	107.2 (6.3)	110.9 (8.6)
Mean (SD) Highest Glucose	96.9 (12.6)	101.9 (16.6)	105.6 (14.9)	105.1 (9.5)
Mean (SD) Highest Glucose Change	-10.3 (11.3)	-5.7 (16.3)	-1.6 (14.3)	-5.8 (9.4)
p-value	0.056	0.519	0.544	0.207
Modal (SD) Dose (mg)	170.4 (127.3)	173.2 (104.9)	167.7 (104.2)	90
Median Exposure (days)	8	29	43	64
Placebo = N	15	111	103	1
Mean (SD) Glucose at BL	106.4 (7.3)	107.7 (6.6)	107.6 (6.4)	108.0
Mean (SD) Highest Glucose	108.4 (20.1)	103.2 (14.4)	106.6 (14.6)	133.2
Mean (SD) Highest Glucose Change	2.0 (19.5)	-4.5 (13.3)	-1.0 (14.8)	25.2
p-value	-	-	-	-
Modal (SD) Dose (mg)	-	-	-	-
Median Exposure (days)	9	29	41	58

Information obtained from Sponsor table 447 in Clinical Study Report

8. Mean Glucose Change (in mg/dl) from 'High Fasting Glucose' (\geq 126 mg/dL) at Baseline by Time (in Weeks)

The mean change from any high baseline (fasting glucose level of \geq 125 mg/dl) to the highest mean change in quetiapine-treated subjects showed -14 and -9 mg/dl compared to -30, and -7 mg/dl in placebo-treated subjects at 2, 4, 8, and 12 weeks, respectively.

Table 113: Mean glucose change from 'high' baseline (BL) to end of treatment, by week (naïve subjects, placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
Seroquel = N	0	17	11	0
Mean (SD) Glucose at BL	-	145.8 (24.4)	134.5 (9.1)	=
Mean (SD) Glucose at EOT	-	132.0 (33.3)	125.7 (36.0)	-
Mean (SD) Glucose Change	-	-13.8 (42.2)	-8.8 (40.9)	=
p-value	=	0.309	0.809	-
Modal (SD) Dose (mg)	-	150.0 (68.5)	150.0 (86.6)	-
Median Exposure (days)	-	29	11	-
Placebo = N	0	10	11	0
Mean (SD) Glucose at BL	=	152.8 (43.1)	152.2 (40.8)	-
Mean (SD) Glucose at EOT	=	123.1 (23.0)	145.6 (73.1)	-
Mean (SD) Glucose Change	-	-29.7 (49.3)	-6.5 (40.8)	-
p-value	-	-	-	-
Modal (SD) Dose (mg)	-	-	-	-
Median Exposure (days)	-	29	11	-

Information obtained from Sponsor table 445 in Clinical Study Report

The mean change from any high baseline (fasting glucose level of \geq 125 mg/dl) to the highest mean change in quetiapine-treated subjects showed -19, -15 and -4 mg/dl compared to -13, -30 and -2 mg/dl in placebo-treated subjects at 2, 4, 8, and 12 weeks, respectively.

Table 114: Highest mean glucose change (in mg/dl) at 'high' baseline (BL), by week (naïve subjects, placebo-controlled trials)

	Week 2	Week 4	Week 8	Week 12
Seroquel = N	4	18	16	0
Mean (SD) Glucose at BL	148.1 (24.3)	145.0 (23.9)	139.6 (17.6)	-
Mean (SD) Highest Glucose	129.6 (37.4)	130.0 (33.4)	135.3 (36.9)	-
Mean (SD) Highest Glucose Change	-18.5 (60.6)	-15.0 (41.3)	-4.3 (41.8)	-
p-value	0.645	0.296	0.906	-
Modal (SD) Dose (mg)	225.0 (86.6)	144.4 (70.5)	143.8 (75.0)	-
Median Exposure (days)	8	29	44	-
Placebo = N	2	10	12	0
Mean (SD) Glucose at BL	130.5 (6.4)	152.8 (43.1)	150.3 (39.5)	-
Mean (SD) Highest Glucose	117.9 (42.0)	123.1 (23.0)	148.1 (69.2)	-
Mean (SD) Highest Glucose Change	-12.6 (35.6)	-29.7 (49.3)	-2.2 (38.9)	=
p-value	-	-	-	-
Modal (SD) Dose (mg)	-	-	-	-
Median Exposure (days)	5	29	47	-

Information obtained from Sponsor table 445 in Clinical Study Report

6.4.2 Categorical Analyses

1. Fasting Glucose Increase Outliers

Results showed that the 2.3% of quetiapine-treated subjects (modal daily dose of 180 mg, median exposure of 56 days) compared to 1.1% of placebo-treated subjects had a mean treatment emergent increase in fasting glucose from baseline values of glucose <100 mg/dL to >126 mg/dL.

Table 115: Proportion of Patients with treatment emergent fasting glucose change (mg/dL) (naïve subjects, placebo-controlled trials)

Baseline	Treatment Arm Post-baseline	N =	≥300 N (%)	≥200 N (%)	≥140 N (%)	≥126 N (%)
<100 mg/dL	Quetiapine	1378	0	0	8 (0.6)	32 (2.3)
	Placebo	740	0	0	4 (0.5)	8 (1.1)
	p-value		-	-	1.000	0.046
≥100 mg/dL and <126 mg/dL	Quetiapine	252	0	0	8 (3.2)	22 (8.7)
	Placebo	137	0	0	5 (3.6)	14(10.2)
	p-value	•	-	1.000	0.776	0.715
<126 mg/dL	Quetiapine	1630	0 (0.0)	1 (0.1)	16 (1.0)	54(3.3)
	Placebo	877	0	0	9 (1.0)	22 (2.5)
	p-value		-	1.000	1.000	0.275
Modal (SD) Dose (mg)	179.7(119.2)					
Median Exposure(days)	56					

Information obtained from Sponsor table 450 in Clinical Study Report

2. Fasting Glucose Increase of more than \geq 10 mg/dL Outliers

Similar percentages of patients with fasting glucose increase of more than 10 mg/dl were seen in both quetiapine and placebo treated patients.

Table 116: Proportion of Patients with treatment emergent increase in glucose (≥10 mg/dL) (naïve subjects, placebo-controlled trials)

Baseline	Treatment Arm	N =	≥10 mg/dL increase post-baseline n (%)
Any value	Quetiapine	1652	439 (26.6)
	Placebo	890	234 (26.3)
	p-value = 0.888	•	
<100 mg/dL	Quetiapine	1378	394 (28.6)
	Placebo	740	209 (28.2)
	p-value = 0.880		
≥100 mg/dL and <126 mg/dL	Quetiapine	252	39 (15.5)
	Placebo	137	20 (14.6)
	p-value $= 0.883$		
<126 mg/dL	Quetiapine	22	6 (27.3)
	Placebo	13	5 (38.5)
	p-value = 0.708		•
Modal (SD) Dose (mg)	179.4 (118.8)		
Median Exposure(days)	56		

Information obtained from Sponsor table 451 in Clinical Study Report

3. Fasting HbA1c (%) Increase of more than \geq 6.1 Outliers

Similar percentages of patients with fasting HbA1c increase of more than 6.1% were seen in both quetiapine and placebo treated patients.

Table 117: Proportion of Patients with treatment emergent fasting HbA1c (%) increase (naïve subjects, placebo-controlled trials)

Baseline	Treatment Arm Post-baseline	N =	≥ 6.1 N (%)	≥8 N (%)	≥10 N (%)	≥12 N (%)
HbA1c(%) <6.1	Quetiapine	1523	46 (3.0)	0	0	0
	Placebo	820	21 (2.6)	0	0	0
	p-value = 0.604					
Modal (SD) Dose in mg	182.4 (124.0)					
Median Exposure(days)	56					

Information obtained from Sponsor table 452 in Clinical Study Report

4. Glycosuria

Similar percentages of patients with treatment emergent glycosuria were noted in both quetiapine and placebo treated patients.

Table 118: Proportion of Patients with treatment emergent glycosuria (naïve subjects, placebo-controlled trials)

Baseline	Treatment Arm Post-baseline	N =	N (%)
Glycosuria	Quetiapine	126	1 (0.8)
	Placebo	81	1 (1.2)
Modal (SD) Dose (mg)	327.0 (248.2)		
Median Exposure(days)	8-14		

Information obtained from Sponsor table 453 in Clinical Study Report

6.5 Antipsychotic-Naïve Subjects in Comparator-Controlled Trials

6.5.1 Mean Change Analyses

1. Mean Glucose Change (in mg/dl) from All subjects at any baseline glucose level

The mean change from baseline (any glucose level) to endpoint and the highest mean change from baseline in olanzapine-treated subjects (N = 27, modal daily dose of 13 mg) were 6.3 mg/dL and 7.3 mg/dL compared to 3.7 mg/dL and 7.1 mg/dL in quetiapine-treated subjects (N = 24, modal daily dose of 565 mg) respectively, with a mean exposure of 198-347 days.

The mean change from baseline (any glucose level) to endpoint and the highest mean change from baseline in risperidone-treated subjects (N = 22, modal daily dose of 2.3 mg) were 1.7 mg/dL and 3.6 mg/dL compared to 3.0 mg/dL and 6.9 mg/dL in quetiapine-treated subjects (N = 24, modal daily dose of 565 mg) respectively, with a mean exposure of 252-347 days.

Table 119: Mean glucose change (in mg/dl) from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials)

	QTP	OLZ	QTP	RIS
N	24	27	24	22
Mean (SD) Glucose at BL	86.9 (10.0)	84.6 (8.0)	86.9 (10.0)	88.7 (7.9)
Mean (SD) Glucose at EOT	90.6 (12.6)	90.9 (15.5)	90.6 (12.6)	90.4 (14.0)
Mean (SD) Glucose Change	3.7 (13.3)	6.3 (16.7)	3.7 (13.3)	1.7 (12.9)
p-value	0.553	-	0.603	-
M (GD) IT I (GI	040 (110)	02.0 (15.4)	040(110)	00.2 (16.1)
Mean (SD) Highest Glucose	94.0 (11.0)	92.0 (15.4)	94.0 (11.0)	92.3 (16.1)
Mean (SD) Highest Glucose Change	7.1 (12.6)	7.3 (16.6)	7.1 (12.6)	3.6 (14.0)
Modal (SD) Dose (mg)	565.2 (177.4)	13.2 (4.0)	565.2 (177.4)	2.3 (0.9)
Median Exposure (days)	347.0	198.0	347.0	252.5

Information obtained from Sponsor table 460 and 478 in Clinical Study Report, OLZ-olanzapine, and RIS- risperidone

2. Mean Glucose Change (in mg/dl) from 'Normal Fasting Glucose' (<100 mg/dL) at Baseline

The mean change from normal baseline (fasting glucose level of <100 mg/dl) to endpoint and the highest mean change from baseline in olanzapine-treated subjects (N = 26, modal daily dose of 13 mg) were 7 mg/dL and 8 mg/dL compared to 6 mg/dL and 10 mg/dL in quetiapine-treated subjects (N = 21, modal daily dose of 590 mg) respectively, with a mean exposure of 198-357 days.

The mean change from normal baseline (fasting glucose level of <100 mg/dl) to endpoint and the highest mean change from baseline in risperidone-treated subjects (N = 20, modal daily dose of 2.3 mg) were 2.2 mg/dL and 3.2 mg/dL compared to 6.3 mg/dL and 10.2 mg/dL in quetiapine-treated subjects (N = 166, modal daily dose of 604 mg) respectively, with a mean exposure of 206-357 days.

Table 120: Mean glucose change from 'normal' baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials)

	QTP	OLZ	QTP	RIS
N	21	26	21	20
Mean (SD) Glucose at BL	84.1 (6.6)	83.9 (7.3)	84.1 (6.6)	86.9 (5.7)
Mean (SD) Glucose at EOT	90.4 (12.9)	91.0 (15.8)	90.4 (12.9)	89.1 (13.2)
Mean (SD) Glucose Change	6.3 (11.5)	7.0 (16.5)	6.3 (11.5)	2.2 (12.9)
p-value	0.860	-	0.285	-
Mean (SD) Highest Glucose	94.3 (11.0)	92.1 (15.7)	94.3 (11.0)	90.1 (12.4)
Mean (SD) Highest Glucose Change	10.2 (9.3)	8.2 (16.3)	10.2 (9.3)	3.2 (12.5)
Modal (SD) Dose (mg)	590.0 (165.1)	13.4 (4.0)	590	2.3
Median Exposure (days)	357.0	198.0	357	206

Information obtained from Sponsor table 462 and 482 in Clinical Study Report, OLZ-olanzapine, and RIS- risperidone

3. Mean Glucose Change (in mg/dl) from 'Impaired Fasting Glucose' (100-125 mg/dL) at Baseline

It should be noted that there was a very small number patients (N=<3 in each treatment group) of this category.

In this submission there are no data tables of fasting Mean Glucose Change for the following categories:

- 'High' Baseline
- 'High' Baseline to highest change
- 'High' Baseline by Time (in Weeks)

4. Mean Glucose Change (in mg/dl) by Time (in Weeks)

Although the sponsor provided some data tables for this analysis, the number of subjects are too small (<20) to interpret the results.

6.5.2 Categorical Analyses

1. Fasting Glucose Increase Outliers

Although the sponsor provided some data tables for this analysis, the number of subjects are too small to interpret the results.

2. Fasting Glucose Increase of more than >10 mg/dL Outliers

In this analysis, 38 % of Quetiapine-treated subjects (mean daily dose of 565 mg, median exposure of 347 days) showed treatment emergent increase in glucose (>10 mg/dL) compared to 26 % in olanzapine-treated subjects (modal daily dose of 13 mg, median exposure of 198 days) and 18 % in risperidone-treated subjects (modal daily dose of 2.3 mg, median exposure of 252 days) regardless of their baseline glucose level.

Table 121: Proportion of Patient with treatment emergent increase in fasting glucose >10 mg/dL (naïve subjects, comparator-controlled trials)

Baseline	Treatment Arm	N =	>10 mg/dL increase post-baseline n (%)
Any value	quetiapine	24	9 (37.5)
	olanzapine	27	7 (25.9)
	p-value	0.546	
	quetiapine	24	9 (37.5)
	risperidone	22	4 (18.2)
	p-value	0.197	
<100 mg/dL	quetiapine	21	9 (42.9)
	olanzapine	26	7 (26.9)
	p-value	0.355	
	quetiapine	21	9 (42.9)
	risperidone	20	3 (15.0)
	p-value	0.085	
≥100 mg/dL and <126 mg/dL	quetiapine	3	0

	olanzapine	1	0	
		1	U	
	p-value	-		
	quetiapine	3	0	
	risperidone	2	1 (50.0)	
	p-value	0.400		
<126 mg/dL	quetiapine	0	0	
	olanzapine	0	0	
	p-value	-		
	quetiapine	0	0	
	risperidone	0	0	
	p-value	-		
Modal (SD) Dose (mg)	QTP - 565 mg vs. OLZ -	QTP – 565 mg vs. OLZ – 13 mg		
, , , , ,	QTP - 562 mg vs. RISP – 2.3 mg			
Median Exposure(days)	QTP – 347 days vs. OLZ	QTP – 347 days vs. OLZ – 198 days		
	QTP - 347 days vs. RISP – 252 days			

Information obtained from Sponsor table 469 and 487 in Clinical Study Report

3. Fasting HbA1c (%) Increase of more than \geq 6.1 Outliers

Approximately 2% in quetiapine-treated subjects (N = 48) with a median exposure of 198-322 days had a treatment-emergent HbA1c increase >6.1%, compared to 6.4% of Olanzapine-treated subjects (N = 47, modal daily dose of 13 mg) and 5.4% of risperidone-treated subjects (N = 37, modal daily dose of 2.5 mg).

Table 122: Proportion of Patients with treatment emergent fasting HbA1c (%) increase (naïve subjects, comparator-controlled trials)

Baseline	Treatment Arm Post-baseline	N =	≥ 6.1 N (%)	≥8 N (%)	≥10 N (%)	≥12 N (%)
HbA1c(%) <6.1	Quetiapine	48	1 (2.1)	0	0	0
	Olanzapine	47	3 (6.4)	0	0	0
	p-value = -		0.362	0.495	-	-
	Quetiapine	48	1 (2.1)	0	0	0
	risperidone	37	2 (5.4)	0	0	0
	p-value = -		0.577	-	-	-
Modal (SD) Dose	QTP – 563 mg vs. OLZ – 13 mg	QTP - 563 mg vs. OLZ - 13 mg				
	QTP - 564 mg vs. RISP – 2.5 mg					
Median Exposure(days)	QTP – 321 days vs. OLZ – 198 days					
	QTP - 322 days vs. RISP – 198 days					

information obtained from Sponsor table 470 and 488 in Clinical Study Report

4. Glycosuria

In this small group of antipsychotic naïve subjects in comparator controlled trials, similar proportion of subjects experienced glycosuria among all treatment groups.

Table 123: Proportion of Patients with treatment emergent glycosuria (naïve subjects, comparator-controlled trials)

Baseline	Treatment Arm Post-baseline	N =	N (%)	
Glycosuria	Quetiapine	49	1 (2.0)	
	Olanzapine	41	2 (4.9)	
	Quetiapine	49	1 (2.0)	
	Risperidone	31	1 (3.2)	
Mean Modal (SD) Dose (mg)	QTP - 564 mg vs. OLZ - 13 mg QTP - 564 mg vs. RISP - 2.4 mg			
Median Exposure(days)	QTP – 337 days vs. OLZ – 335 days QTP - 337 days vs. RISP – 294 days	QTP – 337 days vs. OLZ – 335 days		

Information obtained from Sponsor table 471 and 489 in Clinical Study Report

6.6 Antipsychotic-Naïve Subjects in Controlled and Uncontrolled Trials

6.6.1 Mean Change Analyses

1. Mean Glucose Change (in mg/dl) from All subjects at any baseline glucose level

The mean change from baseline (any glucose level) to endpoint and the highest mean change from baseline in quetiapine-treated subjects (N = 3077, modal daily dose of 179 mg) was 2 mg/dL and 5 mg/dL with a mean exposure of 63 days.

Table 124: Mean glucose change (mg/dl) from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials)

	QTP
N	3077
Mean (SD) Glucose at BL	91.4 (12.7)
Mean (SD) Glucose at EOT	93.4 (16.2)
Mean (SD) Glucose Change	2.0 (14.9)
p-value	-
Mean (SD) Highest Glucose	96.5 (16.7)
Mean (SD) Highest Glucose Change	5.1 (15.3)
Modal (SD) Dose (mg)	179.4 (114.1)
Median Exposure (days)	63

Information obtained from Sponsor table 496 in Clinical Study Report

2. Mean Glucose Change (in mg/dl) from 'Normal Fasting Glucose' (<100 mg/dL) at Baseline

The mean change from normal baseline (fasting glucose level of <100 mg/dl) to endpoint and the highest mean change from baseline in quetiapine-treated subjects (N = 2531, modal daily dose of 181 mg) was 3 mg/dL and 6 mg/dL with a mean exposure of 63 days.

Table 125: Mean glucose change (mg/dl) from 'normal' baseline to end of treatment (naïve subjects, all QTP trials)

	QTP	
N	2531	
Mean (SD) Glucose at BL	87.3 (7.0)	
Mean (SD) Glucose at EOT	90.6 (12.0)	
Mean (SD) Glucose Change	3.3 (12.2)	
p-value	-	
Mean (SD) Highest Glucose	93.7 (12.7)	
Mean (SD) Highest Glucose Change	6.4 (12.9)	
Modal (SD) Dose (mg)	180.7 (116.6)	
Median Exposure (days)	63	·

Information obtained from Sponsor table 498 in Clinical Study Report

3. Mean Glucose Change (in mg/dl) from 'Impaired Fasting Glucose' (100-125 mg/dL) at Baseline

The mean change from impaired baseline (fasting glucose level of 100-125 mg/dl) to endpoint and the highest mean change from baseline in quetiapine-treated subjects (N = 493, modal daily dose of 173 mg) was-3.6 mg/dL and -0.8 mg/dL with a mean exposure of 63 days.

Table 126: Mean glucose change from 'impaired' baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials)

	QTP
N	493
Mean (SD) Glucose at BL	106.7 (6.0)
Mean (SD) Glucose at EOT	103.1 (18.9)
Mean (SD) Glucose Change	-3.6 (18.6)
p-value	-
Mean (SD) Highest Glucose	105.9 (18.7)
Mean (SD) Highest Glucose Change	-0.8 (18.4)
Modal (SD) Dose (mg)	172.9 (103.0)
Median Exposure (days)	63

Information obtained from Sponsor table 502 in Clinical Study Report

4. Mean Glucose Change (in mg/dl) from 'High Fasting Glucose' (>126 mg/dL) at Baseline

The mean change from high baseline (fasting glucose level of ≥ 126 mg/dl) to endpoint and the highest mean change from baseline in quetiapine-treated subjects (N = 53, modal daily dose of 174 mg) were -9.7 mg/dL and -4.4 mg/dL with a mean exposure of 81 days.

Table 127: Mean glucose change (mg/dl) from 'high' baseline to end of treatment (naïve subjects, all QTP trials)

	QTP	
N	53	
Mean (SD) Glucose at BL	147.5 (23.7)	
Mean (SD) Glucose at EOT	137.8 (42.5)	
Mean (SD) Glucose Change	-9.7 (45.3)	
p-value	-	
Mean (SD) Highest Glucose	143.2 (42.9)	
Mean (SD) Highest Glucose Change	-4.4 (45.1)	
Modal (SD) Dose (mg)	174.5 (83.6)	
Median Exposure (days)	81	

Information obtained from Sponsor table 500 in Clinical Study Report

5. Mean Glucose Change (in mg/dl) from All subjects at any baseline glucose level by Time (in Weeks)

The mean change from baseline (any fasting glucose level) to endpoints (in weeks) in quetiapine-treated subjects showed 1.1, 2.2, 0.8, 2.3, 3.8 and 3.3 mg/dl at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 128:Mean glucose change (mg/dl) from baseline to end of treatment, by week (naïve subjects, all QTP trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
Seroquel = N	32	1411	958	719	112	46
Mean (SD) Glucose at BL	90.7 (8.8)	91.2 (12.3)	91.7 (11.9)	91.6 (13.1)	91.7 (14)	90.0(1)
Mean (SD) Glucose at EOT	91.7 (12.0)	93.4 (14.7)	92.5 (14.3)	94.0 (15.0)	95.5 (26)	93.3 (12)
Mean (SD) Glucose Change	1.1 (11.7)	2.2 (14.1)	0.8 (13.0)	2.3 (14.3)	3.8 (24)	3.3 (17)
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	162.5 (143)	181.1 (119)	167.6 (92)	176.0 (108)	233(167)	177.2 (103)
Median Exposure (days)	15	29	57	84	169	337

Information obtained from Sponsor table 497 in Clinical Study Report

The mean change from any baseline (any fasting glucose level) to the highest mean change in quetiapine-treated subjects showed -3.2, 2.2, 5.1, 2.3, 6.3 and 7.9 mg/dl at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 129: Highest mean glucose change (mg/dl) from baseline, by week (naïve subjects, all QTP trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
Seroquel = N	145	1433	1433	746	625	349
Mean (SD) Glucose at BL	95.7 (16.2)	91.3 (12.4)	91.2 (12.0)	91.7 (13.9)	92 (15)	91.4 (12
Mean (SD) Highest Glucose	92.5 (20.1)	93.5 (15.3)	96.2 (14.5)	94.1 (14.9)	98.2 (19)	99.3 (17
Mean (SD) Highest Glucose Change	-3.2 (16.7)	2.2 (14.2)	5.1 (13.4)	2.3 (14.7)	6.3 (17)	7.9 (16)
p-value	-	-	-	-	-	
Modal (SD) Dose (mg)	163.4 (93	180.7 (119)	182.7 (120)	175.4 (107)	178(114)	173(104)
Median Exposure (days)	8	29	46	85	113	232

Information obtained from Sponsor table 497 in Clinical Study Report

6. Mean Glucose Change (in mg/dl) from 'Normal Fasting Glucose' (<100 mg/dL) at Baseline by Time (in Weeks)

The mean change from normal baseline (fasting glucose level of <100 mg/dl) to endpoints (in weeks) in quetiapine-treated subjects showed 1.2, 3.9, 2.0, 4, 5.3 and 7 mg/dl at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 130: Mean glucose change from 'normal' baseline to end of treatment, by week (naïve subjects, all QTP trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
Seroquel = N	27	1181	792	580	91	37
Mean (SD) Glucose at BL	87.9 (6.2)	87.3 (6.9)	87.9 (6.8)	87 (7)	87(6.3)	85 (6.5)
Mean (SD) Glucose at EOT	89.1 (10.5)	91.2 (12.0)	89.9 (10.6)	91 (12.8)	92 (14.4)	92 (12)
Mean (SD) Glucose Change	1.2 (12.3)	3.9 (12.1)	2.0 (10.4)	4(13.4)	5.3 (14)	7 (12)
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	144.4 (88)	183 (122)	169(93)	177 (109)	237 (176)	177 (105)
Median Exposure (days)	15	29	57	84	169	336

Information obtained from Sponsor table 499 in Clinical Study Report

The mean change from any normal baseline (fasting glucose level of < 100 mg/dl) to the highest mean change in quetiapine-treated subjects showed -1.0, 4, 6.5, 4, 7.5 and 10 mg/dl at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 131: Highest mean glucose change (mg/dl) from 'normal' baseline, by week (naïve subjects, all QTP trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48		
Seroquel = N	104	1197	1192	601	497	285		
Mean (SD) Glucose at BL	89 (7)	87 (7)	87.3 (6.9)	87 (7.2)	86.8 (7)	87 (7)		
Mean (SD) Highest Glucose	88 (12.3)	91 (12)	93.8 (11.5)	91 (12)	94.3 (13)	97 (13)		
Mean (SD) Highest Glucose Change	-1.0 (14)	4 (12)	6.5 (11.5)	4 (13.2)	7.5 (13)	10(12)		
p-value	-	-	-	-	-	-		
Modal (SD) Dose (mg)	162 (82)	183(122)	185 (123)	177 (107)	178(118)	170 (106		
Median Exposure (days)	7	29	43	83	114	232		

Information obtained from Sponsor table 499 in Clinical Study Report

7. Mean Glucose Change (in mg/dl) from Impaired Fasting Glucose' (100 -125 mg/dL) at Baseline by Time (in Weeks)

The mean change from impaired baseline (fasting glucose level of \geq 125 mg/dl) to endpoints (in weeks) in quetiapine-treated subjects showed 0.4, -5.8, -5.1,-1.7, -0.9 and -6 mg/dl at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 132: Mean glucose change from 'impaired' baseline to end of treatment, by week (naïve subjects, all QTP trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
Seroquel = N	5	212	152	125	17	8
Mean (SD) Glucose at BL	105.5 (4.7)	107.8 (6.7)	107.0 (6.3)	106 (5.7)	105.5 (4)	105.5 (5)
Mean (SD) Glucose at EOT	105.8 (10)	102 (17)	101.9 (16)	105 (14)	105 (52)	99.7 (7)
Mean (SD) Glucose Change	0.4 (8.9)	-5.8 (16.4)	-5.1 (15.5)	-1.7 (12)	-0.9 (53)	-6 (9.8)
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	260 (305)	173 (105)	160 (87.0)	172 (103)	224(131)	181 (107)
Median Exposure (days)	15	29	57	85	169	343

Information obtained from Sponsor table 503 in Clinical Study Report

The mean change from any impaired baseline (fasting glucose level of 100 - 125 mg/dl) to the highest mean change in quetiapine-treated subjects showed -9.6, -5.8,-1.6, -1.6, 2 and -1 mg/dl at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 133: Highest mean glucose change (mg/dl) from 'impaired' baseline, by week (naïve subjects, all QTP trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
Seroquel = N	36	216	221	130	114	55
Mean (SD) Glucose at BL	107(6)	108 (6.7)	107.1 (6.2)	106 (5.7)	107 (6)	105 (4.5)
Mean (SD) Highest Glucose	97 (13)	102 (16)	105.5 (15)	105(13.7)	109 (25)	104 (13)
Mean (SD) Highest Glucose Change	-9.6 (11)	-5.8 (16)	-1.6 (14.2)	-1.6 (13)	2	-1 (14)
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	163(121)	172 (105)	171(104.4)	169 (103)	174(102)	177(92)
Median Exposure (days)	8	29	43	85	113	223

Information obtained from Sponsor table 503 in Clinical Study Report

8. Mean Glucose Change (in mg/dl) from High Fasting Glucose' (>126 mg/dL) at Baseline by Time (in Weeks)

The mean change from any impaired baseline (fasting glucose level of 100 - 125 mg/dl) to the highest mean change in quetiapine-treated subjects showed -14, -4, -2,-21, -24 and -11 mg/dl at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 134: Mean glucose change from 'high' baseline to end of treatment, by week (naïve subjects, all QTP trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
Seroquel = N	0	18	14	14	4	1
Mean (SD) Glucose at BL	-	148.5 (26)	143 (26)	148.(23)	147(12)	147.6
Mean (SD) Glucose at EOT	-	136.4 (37)	134 (43.6)	128 (23)	136(22)	73.8
Mean (SD) Glucose Change	-	-12 (41.6)	-8.5 (49.9)	-19 (33)	-11 (22)	-73.8
p-value	-	-	-	-	-	-
Modal (SD) Dose (mg)	-	150 (66)	171 (93.5)	150.(76)	188 (75)	150.0
Median Exposure (days)	-	29	57	86	169	349

Information obtained from Sponsor table 501 in Clinical Study Report

The mean change from any high baseline (fasting glucose level of \geq 125 mg/dl) to the highest mean change in quetiapine-treated subjects showed -4, -8.5,-4.4, -25, -11 and -0.4 mg/dl at 2, 4, 8, 12, 24 and 48 weeks, respectively.

Table 135: Highest mean glucose change (mg/dl) from 'high' baseline, by week (naïve subjects, all QTP trials)

	Week 2	Week 4	Week 8	Week 12	Week 24	Week 48
Seroquel = N	5	20	20	15	14	9
Mean (SD) Glucose at BL	157 (29)	149 (25)	144 (25)	153 (30)	155 (30)	135.2 (9)
Mean (SD) Highest Glucose	153(62)	140 (44)	140 (40.2)	128 (22)	144 (29)	135(61)
Mean (SD) Highest Glucose Change	-4.0 (62)	-8.5 (44)	-4.4 (47.0)	-25.(39)	-11 (36)	-0.4 (62)
p-value	-	-	-	-	-	-

Modal (SD) Dose (mg)	210 (82)	145 (67)	167 (87.8)	160 (83)	182(64)	206 (95)
Median Exposure (days)	8	29	50	81	108	238

Information obtained from Sponsor table 501 in Clinical Study Report

6.6.2 Categorical Analyses

1. Fasting Glucose Increase Outliers

Quetiapine-treated subjects (modal daily dose of 179 mg, median exposure of 63 days) showed treatment emergent increase in glucose of 3.7 % for glucose levels <126 mg/dl at baseline.

Table 136: Proportion of Patients with treatment emergent fasting glucose change (mg/dL) (naïve subjects, all QTP trials)

Baseline	Treatment Arm Post-baseline	N =	≥300 N (%)	≥200 N (%)	≥140 N (%)	≥126 N (%)	
<100 mg/dL	Quetiapine	2531	0	1 (0)	20 (0.8)	64 (2.5)	
≥100 mg/dL and <126 mg/dL	Quetiapine	493	1 (0.2)	2 (0.4)	19 (3.9)	47 (9.5)	
<126 mg/dL	Quetiapine	3024	1 (0.0)	3 (0.1)	39 (1.3)	111 (3.7)	
Modal (SD) Dose (mg)	179.4 (114.5)	179.4 (114.5)					
Median Exposure(days)	63						

Information obtained from Sponsor table 506 in Clinical Study Report

2. Fasting Glucose Increase of more than $\geq 10 \text{ mg/dL Outliers}$

Quetiapine-treated subjects (modal daily dose of 179 mg, median exposure of 63 days) showed treatment emergent increase in glucose (\geq 10 mg/dL) of 27 % for any glucose level at baseline.

Table 137: Proportion of Patients with treatment emergent increase in glucose (≥10 mg/dL) (naïve subjects, all QTP trials)

Baseline	Treatment Arm	N =	≥10 mg/dL increase post-baseline n (%)
Any value	Quetiapine	3077	829 (26.9)
<100 mg/dL	Quetiapine	2531	727 (28.7)
≥100 mg/dL and <126 mg/dL	Quetiapine	493	84 (17.0)
<126 mg/dL	Quetiapine	53	18 (34.0)
Modal (SD) Dose (mg)	179.4 (114.1)	1	
Median Exposure(days)	63		

Information obtained from Sponsor table 507 in Clinical Study Report

3. Fasting HbA1c (%) Increase of more than \geq 6.1 Outliers

About 5 % of all quetiapine-treated subjects (N = 2982, modal daily dose of 181 mg) had a mean HbA1c increase (> 6.1) from baseline with a median exposure of 63 days.

Table 138: Proportion of Patients with treatment emergent fasting HbA1c (%) increase (naïve subjects, all QTP trials)

Baseline	Treatment Arm Post-baseline	N =	≥ 6.1 N (%)	≥8 N (%)	≥10 N (%)	≥12 N (%)
HbA1c(%) <6.1	Quetiapine	2982	149 (5.0)	0	1 (0.0)	0
Modal (SD) Dose (mg)	181.8 (121.9)	•				
Median Exposure(days)	63					

Information obtained from Sponsor table 508 in Clinical Study Report

4. Glycosuria Outliers

About 1.5% of all quetiapine-treated subjects (N = 194, modal daily dose of 370 mg) had treatment emergent glycosuria (any amount of glucose seen in urine from baseline) with a median exposure of 45 days.

Table 139: Proportion of Patients with treatment emergent glycosuria (naïve subjects, all QTP trials)

Baseline	Treatment Arm Post-baseline	N =	N (%)
Glycosuria	Quetiapine	194	3 (1.5)
Modal (SD) Dose (mg)	370.5 (252.3)	•	
Median Exposure(days)	45		

Information obtained from Sponsor table 509 in Clinical Study Report

7 Lipids

7.1 Adult Subjects in Placebo-Controlled Trials

Mean changes in the following lipid parameters were performed: total cholesterol (combined fasting and non-fasting), HDL cholesterol (combined fasting and non-fasting), fasting LDL cholesterol, fasting triglycerides and non-fasting triglycerides. The mean baseline lipid value, post-treatment lipid value, and magnitude of change were reported. Because exposure time is essential to interpreting lipid results, each group analyses were conducted for all subjects, and subjects with at least 12 and 24 weeks of exposure. Median exposure at time of lipid measurement was also listed with each table related to lipids. Treatment effect assessment was based on an analysis of variance (ANOVA) model with terms for protocol and treatment. Comparisons between treatment groups were conducted and p-values were reported by the sponsor.

7.1.1 Mean Change Analyses

1. Mean lipid Change (in mg/dl) from baseline to endpoint

The quetiapine-treated subjects (N = 4675) with a modal daily dose of 349 mg, had a mean total cholesterol increase of 2.6 mg/dL compared to a decrease of 3.0 in placebo-treated subjects (N = 2128) with a median exposure of 52-55 days. The fasting triglyceride mean increase of 13 mg/dL was seen in the QTP treated group (modal daily dose of 346 mg) compared to a decrease of 5.4 in placebo treated subjects with a median exposure of 55-56 days. The fasting LDL mean change was -0.1 mg/dL in QTP treated subjects compared to -2.1 in placebo treated subjects. The fasting HDL mean change was -1.2 mg/dL in QTP treated subjects compared to -0.6 in placebo treated subjects.

Table 140: Lipids, change from baseline (BL) to end of treatment (EOT) (placebo-controlled trials)

	QTP	Placebo
N =	4675	2128
Mean (SD) Total cholesterol (mg/dL) at BL	195.1 (43.0)	194.0 (42.5)
Mean (SD) Total cholesterol (mg/dL) at EOT	197.7 (44.4)	191.0 (41.9)
Mean (SD) Total cholesterol (mg/dL) Change	2.6 (30.8)	-3.0 (28.2)
p-value	<0.001	-
Modal (SD) Dose (mg)	349.2 (218.6)	-
Median Exposure (days)	52	55

N =	2057	963
Mean (SD) LDL fasting (mg/dL) at BL	114.7 (37.1)	113.3 (35.5)
Mean (SD) LDL fasting (mg/dL) at EOT	114.6 (37.6)	111.3 (34.9)
Mean (SD) LDL fasting (mg/dL) Change	-0.1 (26.0)	-2.1 (24.4)
p-value	0.084	-
Modal (SD) Dose (mg)	345.9 (222.0)	-
Median Exposure (days)	55	56
* * */		ı
N =	4497	2015
Mean (SD) HDL (mg/dL) at BL	52.8 (15.3)	52.4 (14.9)
Mean (SD) HDL (mg/dL) at EOT	51.6 (15.2)	51.8 (14.9)
Mean (SD) HDL (mg/dL) Change	-1.2 (9.7)	-0.6 (8.3)
p-value	0.011	-
Modal (SD) Dose (mg)	349.9 (219.8)	-
Median Exposure (days)	54	55
N =	2070	966
Mean (SD) Triglycerides, fasting (mg/dL) at BL	140.0 (97.7)	137.4 (92.9)
Mean (SD) Triglycerides, fasting (mg/dL)at EOT	153.0 (126.3)	132.0 (91.9)
Mean (SD) Triglycerides, fasting (mg/dL) Change	13.0 (95.0)	-5.4 (75.2)
p-value	< 0.001	=
Modal (SD) Dose (mg)	346.4 (221.7)	=
Median Exposure (days)	55	56

Information obtained from Sponsor table 88 in Clinical Study Report

Dose-Related Analyses

Table 152 contains lipid changes from baseline to endpoint for all fixed-dose placebo-controlled trials while Tables 153-157 provide lipid changes from baseline to endpoint <u>by indication</u>. For the mean change in total cholesterol from baseline to endpoint, all doses of quetiapine were significantly different from placebo, however, only doses \geq 300 were associated with increases in total cholesterol. The increase did not follow a linear trend, the greatest increases in total cholesterol were in the 400 and 800 mg/day groups.

For the mean change in fasting triglycerides from baseline to endpoint, all quetiapine doses were associated with significant increases except for the 50 mg/day dose. Again, no clear linear trend was seen, all other doses produced fairly similar increases in fasting triglycerides.

Dose-related analyses by indication were mostly consistent with the pooled fixed-dose trials. Interestingly, the quetiapine 50 mg/day group in MDD trials did increase fasting triglycerides (8.5 vs. -4.1 mg/dL); however, this was not statistically significant.

Table 141: Lipids, Change from Baseline to Endpoint, All Fixed-Dose Placebo-Controlled Trials

	QTP 50 mg	QTP 150 mg	QTP 300 mg	QTP 400 mg	QTP 600 mg	QTP 800 mg	Placebo
Cholesterol							
n	452	902	1408	302	913	351	1821
Mean (SD) Change	-1.0 (26.7)	-1.5 (26.7)	0.8 (30.6)	7.0 (31.4)	3.3 (33.8)	7.1 (32.4)	-3.6 (27.6)
p-value (vs. placebo)	0.021	0.046	< 0.001	< 0.001	< 0.001	< 0.001	
Median Exposure (days)	56	56	56	42	55	42	56
LDL, fasting							
n	241	437	611	167	380	151	884
Mean (SD) Change	1.5 (24.0)	-1.6 (24.4)	-0.8 (26.2)	4.2 (25.9)	-1.7 (28.1)	3.7 (28.3)	-2.5 (24.6)
p-value (vs. placebo)	0.014	NS	NS (0.079)	NS (0.072)	NS	NS	
Median Exposure (days)	56	56	56	42	56	42	56

HDL							
n	452	902	1403	302	912	350	1820
Mean (SD) Change	-1.3 (9.7)	-2.0 (9.4)	-1.2 (9.6)	-0.5 (9.6)	-1.0 (10.0)	-0.2 (9.7)	-0.6 (8.3)
p-value (vs. placebo)	NS	0.005	NS (0.094)	NS	NS	NS	
Median Exposure (days)	56	56	56	42	55	42	56
Triglycerides, fasting							
n	241	437	616	169	386	151	887
Mean (SD) Change	0.0 (58.5)	13.2 (105.8)	17.4 (106.4)	15.8 (80.8)	8.7 (84.4)	16.3 (103.5)	-5.0 (76.5)
p-value (vs. placebo)	NS	0.003	< 0.001	0.004	0.005	0.003	
Median Exposure (days)	56	56	56	42	55	42	56
Triglycerides, nonfasting							
n	49	120	118	61	85	39	202
Mean (SD) Change	-10.9 (53.8)	7.0 (66.8)	5.3 (84.9)	40.7 (79.9)	21.1 (97.3)	51.2 (109.3)	-1.8 (70.3)
p-value (vs. placebo)	NS	NS	NS	< 0.001	0.039	< 0.001	
Median Exposure (days)	56	56	56	42	53	42	56

From Sponsor Table 172 in 2/18/09 submission

Table 142: Lipids, Change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled "Schizophrenia" Trials

	QTP	QTP	QTP	QTP	QTP	QTP	Placebo
	50 mg	150 mg	300 mg	400 mg	600 mg	800 mg	
Schizophrenia							
Cholesterol							
n	NA	NA	140	302	313	351	252
Mean (SD) Change	NA	NA	11.6 (36.0)	7.0 (31.4)	8.7 (35.6)	7.1 (32.4)	-3.1 (32.0)
p-value (vs. placebo)	NA	NA	NS	< 0.001	< 0.001	< 0.001	
Median Exposure (days)	NA	NA	36.5	42	42	42	42
LDL, fasting							
n	NA	NA	NA	167	100	151	111
Mean (SD) Change	NA	NA	NA	4.2 (25.9)	0.7 (27.6)	3.7 (28.3)	-1.6 (26.5)
p-value (vs. placebo)	NA	NA	NA	NS (0.089)	NS	NS	
Median Exposure (days)	NA	NA	NA	42	42	42	42
HDL							
n	NA	NA	139	302	313	350	252
Mean (SD) Change	NA	NA	0.4 (10.2)	-0.5 (9.6)	-0.9 (10.6)	-0.2 (9.7)	-0.6 (8.4)
p-value (vs. placebo)	NA	NA	NS	NS	NS	NS	NS
Median Exposure (days)	NA	NA	41	42	42	42	42
Triglycerides, fasting							
n	NA	NA	NA	169	100	151	111
Mean (SD) Change	NA	NA	NA	15.8 (80.8)	7.4 (102.3)	16.3 (103.5)	-13.4 (83.7)
p-value (vs. placebo)	NA	NA	NA	0.006	NS	0.012	
Median Exposure (days)	NA	NA	NA	42	42	42	42
Triglycerides, nonfasting							
n	NA	NA	NA	61	37	39	38
Mean (SD) Change	NA	NA	NA	40.7 (79.9)	27.4 (68.6)	51.2 (109.3)	-12.7 (67.4)
p-value (vs. placebo)	NA	NA	NA	< 0.001	0.012	0.002	
Median Exposure (days)	NA	NA	NA	42	42	42	42

From Sponsor Table 173 in 2/18/09 submission

Table 143: Lipids, Change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled "Bipolar" Trials

	QTP	QTP	Placebo
	300 mg	600 mg	
Cholesterol			
n	703	600	542
Mean (SD) Change	-0.9 (32.5)	0.5 (32.5)	-3.3 (29.2)
p-value (vs. placebo)	NS	NS (0.085)	
Median Exposure (days)	56	56	56
LDL, fasting			

85

n	330	280	237
Mean (SD) Change	-1.9 (27.2)	-2.5 (28.4)	-4.5 (25.2)
p-value (vs. placebo)	NS	NS	
Median Exposure (days)	56	56	57
HDL			
n	699	599	541
Mean (SD) Change	-0.7 (9.6)	-1.0 (9.8)	-0.1 (8.7)
p-value (vs. placebo)	NS	NS	
Median Exposure (days)	56	56	56
Triglycerides, fasting			
n	335	286	238
Mean (SD) Change	18.2 (127.7)	9.1 (77.3)	-4.0 (105.3)
p-value (vs. placebo)	0.018	NS (0.064)	
Median Exposure (days)	56	56	57
Triglycerides, nonfasting			
n	51	48	39
Mean (SD) Change	0.3 (102.3)	16.2 (115.1)	2.2 (75.9)
p-value (vs. placebo)	NS	NS	
Median Exposure (days)	NA	42	42

From Sponsor Table 174 in 2/18/09 submission

Table 144: Lipids, Change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled "GAD" Trials

	QTP	QTP	QTP	Placebo
	50 mg	150 mg	300 mg	
Cholesterol				
n	320	475	296	516
Mean (SD) Change	-1.3 (27.3)	-1.1 (27.3)	0.4 (24.3)	-2.3 (25.7)
p-value (vs. placebo)	NS	NS	0.031	
Median Exposure (days)	59.5	56	57	57
LDL, fasting				
n	171	226	147	259
Mean (SD) Change	1.2 (24.3)	-1.7 (24.6)	1.5 (24.6)	-2.3 (24.2)
p-value (vs. placebo)	NS (0.059)	NS	NS (0.075)	
Median Exposure (days)	62	57	57	57
HDL				
n	320	475	296	516
Mean (SD) Change	-1.5 (9.6)	-2.1 (10.1)	-3.1 (8.6)	
p-value (vs. placebo)	NS (0.067)	0.002	0.001	
Median Exposure (days)	59.5	56	57	57
Triglycerides, fasting				
n	171	226	147	259
Mean (SD) Change	-3.4 (60.9)	11.2 (70.5)	20.6 (69.2)	-3.2 (55.3)
p-value (vs. placebo)	NS	0.013	0.001	
Median Exposure (days)	62	57	57	57
Triglycerides, nonfasting				
n	38	64	29	72
Mean (SD) Change	-6.6 (46)	12.4 (74.9)	18.5 (57.3)	1.7 (64.4)
p-value (vs. placebo)	NS	NS	NS	
Median Exposure (days)	57	56	56	57

From Sponsor Table 175 in 2/18/09 submission

Table 145: Lipids, Change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled "MDD" Trials

	QTP 50 mg	QTP 150 mg	QTP 300 mg	Placebo
Cholesterol				
n	132	427	269	511
Mean (SD) Change	-0.1 (25.3)	-1.8 (25.7)	0.2 (27.7)	-5.7 (25.2)
p-value (vs. placebo)	0.006	0.020	0.007	
Median Exposure (days)	42	49	48	50

86

LDL, fasting				
n	70	211	134	277
Mean (SD) Change	2.2 (23.6)	-1.5 (24.2)	-0.8 (25.0)	-1.2 (23.6)
p-value (vs. placebo)	NS (0.089)	NS	NS	
Median Exposure (days)	42	49	47	50
HDL				
n	132	427	269	511
Mean (SD) Change	-1.0 (9.9)	-1.9 (8.6)	-1.2 (10.0)	-1.5 (8.3)
p-value (vs. placebo)	NS	NS	NS	
Median Exposure (days)	42	49	48	50
Triglycerides, fasting				
n	70	211	134	279
Mean (SD) Change	8.5 (51.6)	15.4 (133.8)	12.0 (78.0)	-4.1 (59.7)
p-value (vs. placebo)	NS	0.033	NS	
Median Exposure (days)	42	49	47	50
Triglycerides, nonfasting				
n	11	56	38	53
Mean (SD) Change	-25.7 (76.1)	0.9 (56.1)	2.0 (77.2)	-1.7 (76.5)
p-value (vs. placebo)	NS	NS	NS	
Median Exposure (days)	41	50	49	56

From Sponsor Table 176 in 2/18/09 submission

Table 146: Lipids, Change from Baseline to Endpoint, Fixed-Dose Placebo-Controlled "GAD and MDD" Trials

•	QTP	QTP	QTP	Placebo
	50 mg	150 mg	300 mg	
Cholesterol				
n	452	902	565	1027
Mean (SD) Change	-1.0 (26.7)	-1.5 (26.5)	0.3 (25.9)	-4.0 (25.5)
p-value (vs. placebo)	0.015	0.036	< 0.001	
Median Exposure (days)	56	56	53	56
LDL, fasting				
n	241	437	281	536
Mean (SD) Change	1.5 (24.0)	-1.6 (24.4)	0.4 (24.8)	-1.7
p-value (vs. placebo)	0.012	NS	NS	
Median Exposure (days)	56	56	55	56
HDL				
n	452	902	565	1027
Mean (SD) Change	-1.3 (9.7)	-2.0 (9.4)	-2.2 (9.4)	-0.9 (8.1)
p-value (vs. placebo)	NS	0.005	NS (0.072)	
Median Exposure (days)	56	56	53	56
Triglycerides, fasting				
n	241	437	281	538
Mean (SD) Change	0.0 (58.5)	13.2 (105.8)	16.5 (73.5)	-3.7 (57.6)
p-value (vs. placebo)	NS	0.002	< 0.001	
Median Exposure (days)	56	56	55	56
Triglycerides, nonfasting				
n	49	120	67	125
Mean (SD) Change	-10.9 (53.8)	7.0 (66.8)	9.1 (69.3)	0.3 (69.5)
p-value (vs. placebo)	NS	NS	NS	
Median Exposure (days)	56	56	50	56

From Sponsor Table 177 in 2/18/09 submission

7.1.2 Categorical Analyses

Analyses of treatment-emergent significant changes (fasting baseline and post-baseline lipid measurements) were performed according to the National Cholesterol Education Program (NCEP) classifications.

Table 147: Treatment-Emergent Significant Changes in Lipids

	Baseline	Post-baseline
Total Cholesterol (Fasting and Non-Fasting)*		
Normal to High	<200 mg/dL	≥240 mg/dL
Borderline to High	≥200 and <240 mg/dL	≥240 mg/dL
Normal/Borderline to High	<240 mg/dL	≥240 mg/dL
Normal to Borderline/High	<200 mg/dL	≥200 mg/dL
LDL Cholesterol (Fasting)		
Normal to High	<100 mg/dL	≥160 mg/dL
Borderline to High	≥100 and <160 mg/dL	≥160 mg/dL
Normal/Borderline to High	<160 mg/dL	≥160 mg/dL
Normal to Borderline/High	<100 mg/dL	≥100 mg/dL
HDL Cholesterol (Fasting and Non-fasting)*		
Normal to Low	≥40 mg/dL	<40 mg/dL
Triglycerides (Fasting)		
Normal to High	<150 mg/dL	≥200 mg/dL
Normal to Very High	<150 mg/dL	≥500 mg/dL
Borderline to High	≥150 and <200b mg/dL	≥200 mg/dL
Borderline to Very High	≥150 and <200 mg/dL	≥500 mg/dL
Normal/Borderline to High	<200 mg/dL	≥200 mg/dL
Normal/Borderline to Very High	<200 mg/dL	≥500 mg/dL
Normal to Borderline/High/Very High	<150 mg/dL	≥150 mg/dL

^{*} given that total cholesterol and HDL cholesterol measurements are not significantly changed by fasting status and that the majority of clinical trial lipid data is non-fasting, we elect to include fasting and nonfasting values for total cholesterol and HDL cholesterol in combined analyses.

Table 148: Treatment-Emergent Significant Changes in Lipids: Additional Analyses

	Baseline	Post-baseline
Treatment- emergent very high triglycerides	Fasting triglycerides	Fasting triglycerides
(fasting)	<500 mg/dL	≥500 mg/dL
Treatment-emergent very high triglycerides	NF and random Trig <500	Non-fasting and random
(nonfasting and random)	mg/dL	Triglycerides ≥500 mg/dL
Treatment-emergent triglycerides >1000 mg/dL	Triglycerides	Triglycerides
(All cases fasting, non-fasting, and random)	<1000 mg/dL	≥1000 mg/dL
Change in fasting or non-fasting total cholesterol ≥40	Any value	Increased fasting or non-fasting total
mg/dL at any time post-baseline ¹		cholesterol ≥40 mg/dL
Change in fasting LDL cholesterol ≥ 30 mg/dL	Any value	Increased fasting LDL
at anytime post-baseline ²		cholesterol ≥ 30 mg/dL
Change in fasting or non-fasting HDL cholesterol ≥20	Any value	Decreased fasting or NF HDL cholesterol ≥
mg/dL at any time post-baseline ³		20 mg/dL
Change in fasting triglycerides ≥50 mg/dL at	Any value	Increased fasting triglycerides
any time post-baseline ⁴		≥50 mg/dL
any time post-baseline 4		== - 8

¹ subgroup analyses based on the following categories of baseline fasting or nonfasting total cholesterol for adults: Normal (<200 mg/dL), Borderline (≥200 and <240 mg/dL), and High (≥240 mg/dL).

² subgroup analyses based on the following categories of baseline fasting LDL cholesterol for adults: Normal (<100 mg/dL), Borderline (≥100

and <160 mg/dL), and High (≥160 mg/dL).

³ subgroup analyses based on the following categories of baseline fasting or nonfasting HDL cholesterol: Normal (≥40 mg/dL) and Low (<40

⁴ subgroup analyses based on the following categories of baseline fasting triglycerides: Normal (<150 mg/dL), Borderline (≥150 and <200 mg/dL), High (≥200 and <500 mg/dL), and Very High (≥500 mg/dL).

1. Total Cholesterol outliers

A greater proportion of QTP treated patients who had total cholesterol from normal (<200), borderline (≥200 to <240), or normal/borderline (<240 mg/dL) at baseline was noted with treatment emergent shift to post-baseline (≥240 mg/dL) as compared to placebo treated group.

Table 149: Proportion of Patients with treatment emergent shifts of total cholesterol (placebo-controlled trials)

Total cholesterol (mg/dL) (fasting and non-fasting)	QTP Post-bas	QTP Post-baseline			Placebo Post-baseline			p-value	
Baseline (BL)	n (%)	≥240	≥ <u>200</u>	n (%)	<u>></u> 240	≥200	≥240	≥ <u>200</u>	
Normal <200	2759	96 (3.5)	584(21)	1260	18 (1.4)	211(16)	< 0.001	0.001	
Borderline ≥200 to <240	1239	264 (21)	-	580	93 (16.0)	-	0.009	-	
Normal/Borderline <240	3998	360 (9.0)	-	1840	111 (6.0)	-	< 0.001	-	
Mean (SD) BL value for Normal/Borderline	3998	183 (31)	-	1840	182 (31)	=	=		
Mean (SD) value at EOT for Normal/Borderline	3998	189 (37)	-	1840	183 (35)	=	=		
Mean (SD) change for Normal/Borderline	3998	6 (28)	-	1840	0.4 (25)	-	-		
	*	•	•	-	•	•	•		
Modal (SD) Dose (mg)	349.6 (2	349.6 (219.4)			-				
Median Exposure (days)	51			55					

Information obtained from Sponsor table 89 in Clinical Study Report

2. Total Cholesterol \geq 40 mg/dl outliers

A greater proportion of QTP treated patients who had changes in total cholesterol >40 mg/dL from normal, borderline or high baseline categories as compared to the placebo patients.

<u>Table 150</u>: Proportion of Patients with treatment emergent shifts of total cholesterol \geq 40 mg/dl increase (placebo-controlled trials)

Total cholesterol (mg/dL)	QTP		Placebo)	p-value	
(fasting and non-fasting)	Post-bas	seline	Post-ba	seline		
Baseline (BL)	n (%)	<u>≥</u> 40	n (%)	<u>≥</u> 40	<u>≥</u> 40	
Any value	4675	493 (10.5)	2128	123 (5.8)	< 0.001	
Normal <200	2759	325 (11.8)	1260	80 (6.3)	< 0.001	
Borderline ≥200 to <240	1239	121 (9.8)	580	32 (5.5)	0.002	
High_>240	677	47 (6.9)	288	11 (3.8)	0.075	
Mean (SD) BL value	4675	195.1 (43.0)	2128	194.0 (42.5)	-	
for Any value						
Mean (SD) value at EOT	4675	197.9 (44.6)	2128	191.1 (42.0)	-	
for Any value		. ,		, , ,		
Mean (SD) change	4675	2.9 (31.0)	2128	-2.8 (28.4)	-	
for Any value						
	•	•	-	•		
Modal (SD) Dose (mg)	349.2 (2	349.2 (218.6)		-		
Median Exposure (days)	52		55			

Information obtained from Sponsor table 90 in Clinical Study Report

3. Total HDL outliers

There is a slight numerical increase in the proportion of patients who had treatment emergent shift in HDL from normal >40 mg/dL to low at post-baseline in the QTP treated patients as compared to the placebo-groups.

Table 151: Proportion of Patients with treatment emergent shifts of total HDL (placebo-controlled trials)

Total HDL (mg/dL)	QTP		Placebo		p-value
(fasting and non-fasting)	Post-base	eline	Post-bas	seline	
Baseline (BL)	n (%)	<40	n (%)	<40	<40
Normal ≥ 40 mg/dL	3653	381 (10.4)	1639	145 (8.8)	0.082
Mean (SD) Normal at BL	3653	57.0 (13.7)	1639	56.5 (13.4)	-
Mean (SD) Normal at EOT	3653	55.0 (14.3)	1639	55.2 (14.1)	-
Mean (SD) change for Normal	3653	-2.0 (9.9)	1639	-1.2 (8.7)	-
Modal (SD) Dose (mg)	344.0 (220.1)		-		
Median Exposure (days)	54	·	55	·	

Information obtained from Sponsor table 91 in Clinical Study Report

4. Total $HDL \ge 20 \text{ mg/dl decrease outliers}$

Shift changes in total HDL \geq 20 mg/dL decrease were analyzed and showed that 3.7% of quetiapine-treated subjects who had normal baseline (>40 mg/dL) showed a significant shift post-baseline (decrease in total HDL \geq 20 mg/dL) compared to 2.1% in the placebo group. Shifts from low baseline to \leq 40 mg/dL were not different between the treatment groups.

Table 152: Proportion of Patients with treatment emergent shifts of total HDL ≥ 20 mg/dL decrease (placebo-controlled trials)

Total HDL (mg/dL) ≥ 20 mg/dL decrease	QTP Post-bas	QTP Post-baseline		eline	p-value
Baseline (BL)	n (%)	≥20 mg/dL decrease	n (%)	≥20 mg/dL decrease	<u>≥</u> 20
Any value	4497	137 (3.0)	2015	35 (1.7)	0.002
Normal >40	3653	135 (3.7)	1639	35 (2.1)	0.002
Low ≤ 40	844	2 (0.2)	376	0	1.000
Mean (SD) BL value for Any value	4497	52.8 (15.3)	2015	52.4 (14.9)	-
Mean (SD) value at EOT for Any value	4497	51.6 (15.2)	2015	51.8 (14.9)	-
Mean (SD) change for Any value	4497	-1.2 (9.7)	2015	-0.6 (8.3)	-
Modal (SD) Dose (mg)	349.9 (2	19.8)	-		
Median Exposure (days)	54		55		

Information obtained from Sponsor table 92 in Clinical Study Report

5. Total fasting LDL Outliers

Shift changes in total LDL were analyzed and showed that 28% of quetiapine-treated subjects who had normal baseline (<100 mg/dL) showed a significant shift post-baseline ($\ge100 \text{ mg/dL}$) compared to 21% in the placebo group. No significant different between the treatment groups for shifts from baseline to $\ge160 \text{ mg/dL}$ regardless of baseline fasting LDL status.

Table 153: Proportion of Patients with treatment emergent shifts of fasting LDL (placebo-controlled trials)

Fasting LDL (mg/dL)	QTP Pos	st-baseline		placebo	Post-baseline		p-value	
Baseline (BL)	n (%)	≥160	<u>≥</u> 100	n (%)	≥160	<u>≥</u> 100	≥160	≥100
Normal <100	742	8 (1.1)	206(28)	383	1 (0.3)	82(21)	0.287	0.021
Borderline ≥100 to <160	1101	103 (9.4)	-	491	35 (7.1)	-	0.149	-
Normal/Borderline < 160	1843	111 (6.0)	-	874	36 (4.1)	-	0.045	-
Mean (SD) BL value	1843	106 (27)	-	874	106 (27)	-	-	
for Normal/Borderline								
Mean (SD) value at EOT	1843	109 (32)	-	874	106 (31)	-	-	
for Normal/Borderline								
Mean (SD) change for	1843	2.2 (4)	-	874	0.5 (22)	-	-	
Normal/Borderline								

Modal (SD) Dose	344.3 (222.7)	-
Median Exposure (days)	55	55

Information obtained from Sponsor table 93 in Clinical Study Report

6. Total fasting LDL \geq 30 mg/dl outliers

No significant different between the treatment groups for shifts from baseline to this outlier category regardless of baseline fasting LDL status.

Table 154: Proportion of Patients with treatment emergent shifts of fasting LDL ≥ 30 mg/dL increase (placebo-controlled trials)

fasting LDL ≥ 30 mg/dL increase	QTP Post-bas	QTP Post-baseline		seline	p-value
Baseline (BL)	n (%)	≥30 mg/dL increase	n (%)	≥30 mg/dL increase	<u>≥</u> 30
Any Value	2057	209 (10.2)	963	71 (7.4)	0.015
Normal <100	742	82 (11.1)	383	29 (7.6)	0.073
Borderline ≥100 to <160	1101	114 (10.4)	491	41 (8.4)	0.234
Normal/Borderline <160	214	13 (6.1)	89	1 (1.1)	0.073
M (0D) DI I	2057	1147 (271)	0.02	112.2 (25.5)	
Mean (SD) BL value for Any value	2057	114.7 (37.1)	963	113.3 (35.5)	-
Mean (SD) value at EOT for Any value	2057	114.7 (37.7)	963	111.3 (34.9)	-
Mean (SD) change for Any value	2057	-0.1 (26.2)	963	-2.1 (24.4)	-
-		-	•	•	•
Modal (SD) Dose (mg)	345.9 (2	22.0)	-		
Median Exposure (days)	55		56		

Information obtained from Sponsor table 94 in Clinical Study Report

7. Fasting Triglycerides outliers

Outlier analysis for shift changes in fasting triglyceride showed that a greater percentage of quetiapine-treated subjects in all baseline categories (normal <150 mg/dL, borderline >150-<200 or normal/borderline <200) showed a significant shift post-baseline to \geq 200 mg/dL, compared to the placebo group.

 Table 155: Proportion of Patients with treatment emergent shifts of fasting triglycerides (placebo-controlled trials)

QTP Pos	t-baseline	•		placebo	Post-base	eline		p-value		
n (%)	≥500	<u>≥</u> 200	≥150	n (%)	≥500	≥200	≥150	≥500	<u>≥</u> 200	≥150
1416	2(0.1)	109(8)	273(19)	667	0	26(4)	86(13)	1.000	< 0.001	< 0.001
297	4(1)	94(32)	-	138	0	26(19)	-	0.312	0.006	-
1713	6(0.4)	203(12)	-	805	0	52 (7)	-	0.186	< 0.001	-
1713	106.3	106.3	-	805	105.4	105.4	-	-		
	(40.7)	(40.7)			(41.3)	(41.3)				
1713	124.2	124.2	-	805	110.1	110.2	-	-		_
	(71.5)	(71.3)			(55.9)	(56.0)				
1713	17.9	17.9	-	805	4.8	4.8	-	-		
	(60.8)	(60.6)			(46.4)	(46.5)				
342(222))			-						
55				56						
	n (%) 1416 297 1713 1713 1713 1713 342(222)	$\begin{array}{c cccc} n \ (\%) & \geq 500 \\ 1416 & 2(0.1) \\ 297 & 4 \ (1) \\ 1713 & 6(0.4) \\ \hline \\ 1713 & 106.3 \\ & (40.7) \\ 1713 & 124.2 \\ & (71.5) \\ 1713 & 17.9 \\ & (60.8) \\ \hline \\ 342(222) \\ \hline \end{array}$	1416 2(0.1) 109(8) 297 4 (1) 94(32) 1713 6(0.4) 203(12) 1713 106.3 106.3 (40.7) (40.7) 1713 124.2 124.2 (71.5) (71.3) 1713 17.9 17.9 (60.8) (60.6)	$\begin{array}{c ccccc} n \ (\%) & \geq 500 & \geq 200 & \geq 150 \\ 1416 & 2(0.1) & 109(8) & 273(19) \\ 297 & 4 \ (1) & 94(32) & - \\ 1713 & 6(0.4) & 203(12) & - \\ & & & & & & \\ 1713 & 106.3 & 106.3 & - \\ & (40.7) & (40.7) & - \\ 1713 & 124.2 & 124.2 & - \\ & (71.5) & (71.3) & - \\ 1713 & 17.9 & 17.9 & - \\ & (60.8) & (60.6) & - \\ & & & & \\ 342(222) & & & \\ \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					

Information obtained from Sponsor table 95 in Clinical Study Report

8. Fasting Triglycerides \geq 50 mg/dL increase outliers (QTP vs. placebo)

The treatment emergent shift changes were analyzed for Fasting Triglycerides of ≥ 50 mg/dL and showed that a significant proportion (19-26%) of quetiapine-treated subjects who had normal

baseline (<150 mg/dL), borderline ($\ge150 \text{ to } <200$), or high ($\ge200 \text{ to } <500$) showed this post-baseline shift compared to the placebo group (11-13%).

Table 156: Proportion of Patients with treatment emergent shifts of fasting triglycerides ≥ 50 mg/dL increase (placebo-controlled trials)

Fasting triglycerides > 50 mg/dL increase	QTP Post-base	eline		cebo t-base	eline	p-value
Baseline (BL)	n (%)	>50 mg/dL increase	n (%	%)	>50 mg/dL increase	>50
Any Value	2070	432 (20.9)	966	,	115 (11.9)	< 0.001
Normal <150	1416	268 (18.9)	667	,	77 (11.5)	< 0.001
Borderline ≥150 to <200	297	76 (25.6)	138	3	17 (12.3)	0.002
High ≥ 200 to < 500	334	82 (24.6)	153	,	20 (13.1)	0.004
Very High ≥ 500	23	6 (26.1)	8		1 (12.5)	0.642
Mean (SD) BL value for Any value	2070	140.0 (97.7)	966)	137.4 (92.9)	-
Mean (SD) value at EOT for Any value	2070	153.1 (126.3)	966)	132.7 (93.6)	-
Mean (SD) change for Any value	2070	13.1 (94.9)	966)	-4.7 (75.3)	-
						_
Modal (SD) Dose (mg)	346.4 (22	21.7)		-		
Median Exposure (days)	55			56		

Information obtained from Sponsor table 96 in Clinical Study Report

Dose-Related Analyses

There is a suggestion of a dose-related effect on total cholesterol when analyzed by categorical shift data. Approximately 4% of subjects receiving doses > 400 mg/day experienced a shift from normal to high compared to $\sim 1-3\%$ of subjects at lower doses. Across all dose groups, similar proportions of subjects experienced a shift from borderline to high – the 800 mg/day group had the highest proportion of subjects with this shift (36.8%).

Similar proportions of subjects in each dose group experienced a shift from normal to high fasting triglycerides (~7-8%) with the exception of the 50 mg/day group (3.5%) and the 300 mg/day group (21.6%). Similar proportions of subjects in each dose group experienced a shift from borderline to high (~30-38%) with the exception of the 50 mg/day group (19.4%).

Table 157: Shifts in Lipids, All Fixed-Dose Placebo-Controlled Trials

	$ QTP: \\ N = 6 $	50 mg 56		QTP 150 mg N = 1286		_	QTP 300 mg N = 1915			QTP 400 mg N = 340		
	N	n	(%)	N	n	(%)	N	n	(%)	N	n	(%)
Cholesterol												
Increase by $\geq 40 \text{ mg/dL}$	452	21	4.6%	902	45	5%	1408	117	8.3% ^a	302	42	13.9% ^a
Normal to High (< 200 to ≥ 240)	259	3	1.2%	534	12	2.2%b	804	23	2.9%ª	199	4	2%
Borderline to High $(200 - 239 \text{ to} \ge 240 \text{ mg/dL})$	126	20	15.9%	234	28	12%	402	86	21.4% ^a	70	14	20%
Normal/Borderline to High $(< 240 \text{ to} \ge 240 \text{ mg/dL})$	385	23	6%	768	40	5.2%	1206	109	9%ª	269	18	6.7%
Normal to Borderline/High ($< 200 \text{ to} \ge 200 \text{ mg/dL}$)	259	49	18.9%	534	90	16.9%	804	135	16.8%	199	40	20.1%
LDL, fasting												
Increase by $\geq 30 \text{ mg/dL}$	241	27	11.2% ^b	437	35	8.0%	611	49	8.0%	167	22	13.2% ^a
Normal to High $(< 100 \text{ to} \ge 160 \text{ mg/dL})$	88	0	0	156	3	1.9%	202	2	1%	71	2	2.8%
Borderline to High (100 – 159 to > 160 mg/dL)	129	13	10.1%	244	13	5.3%	342	34	9.9%	77	9	11.7%
Normal/Borderline to High $(< 160 \text{ to} \ge 160 \text{ mg/dL})$	217	13	6%	400	16	4%	544	36	6.6% ^b	148	11	7.4%

Normal to Borderline/High (< 100 to ≥ 100 mg/dL)	88	27	30.7% ^a	156	34	21.8%	202	60	29.7%ª	71	30	42.3% ^a
HDL	•		•		•	•	•	•	•	•		•
Decrease by ≥ 20 mg/dL	452	16	3.5% ^a	902	29	3.2% ^a	1403	37	2.6%	302	11	3.6% ^a
Normal to Low	389	36	9.3%	768	76	9.9%	1118	107	9.6%	237	31	13.1% ^a
$(\ge 40 \text{ to} < 40 \text{ mg/dL})$												
Triglycerides, fasting												
Increase by $\geq 50 \text{ mg/dL}$	241	26	10.8%	437	94	21.5% ^a	616	129	20.9% ^a	169	41	24.3ª
Normal to High	173	6	3.5%	308	25	8.1% ^a	417	37	21.6% ^a	113	10	8.8% ^b
$(< 150 \text{ to} \ge 200 \text{ mg/dL})$												
Normal to Very High	173	0	0	308	0	0	417	0	0	113	1	0.9%
$(< 150 \text{ to} \ge 500 \text{ mg/dL})$												
Borderline to High	36	7	19.4%	62	20	32.3% ^a	84	30	35.7% ^a	32	11	34.4% ^b
$(150 - 199 \text{ to } \ge 200 \text{ mg/dL})$												
Borderline to Very High	36	0	0	62	0	0	84	1	1.2%	32	0	0
$(150 - 199 \text{ to } \ge 500 \text{ mg/dL})$												
Normal/Borderline to High	209	13	6.2%	370	45	12.2% ^a	501	67	13.4% ^a	145	21	14.5% ^a
$(< 200 \text{ to } \ge 200 \text{ mg/dL})$												
Normal/Borderline to Very	209	0	0	370	0	0	501	1	0.2%	145	1	0.7%
High												
$(< 200 \text{ to} \ge 500 \text{ mg/dL})$												
Normal to	173	16	9.2%	308	58	18.8%ª	417	90	21.6% ^a	113	26	23%ª
Borderline/High/Very High												
$(< 150 \text{ to } \ge 150 \text{ mg/dL})$												

	QTP N = 1	600 mg 182	;	QTP : N = 4:	800 mg 51	3	Placebo N = 2319		
	N	n	(%)	N	n	(%)	N	n	(%)
Cholesterol		•			•	•			•
Increase by $\geq 40 \text{ mg/dL}$	913	109	11.9% ^a	351	55	15.7% ^a	1821	84	4.6%
Normal to High $(< 200 \text{ to } \ge 240)$	510	21	4.1% ^a	224	8	3.6% ^a	1079	11	1%
Borderline to High $(200 - 239 \text{ to} \ge 240 \text{ mg/dL})$	246	52	21.1% ^a	87	32	36.8%ª	495	68	13.7%
Normal/Borderline to High $(< 240 \text{ to} \ge 240 \text{ mg/dL})$	756	73	9.7%ª	311	40	12.9%ª	1574	79	5%
Normal to Borderline/High (< 200 to ≥ 200 mg/dL)	510	132	25.9% ^a	224	56	25% ^a	1079	166	15.4%
LDL, fasting		,							
Increase by $\geq 30 \text{ mg/dL}$	380	42	11.1% ^a	151	26	17.2% ^a	884	65	7.4%
Normal to High $(< 100 \text{ to} \ge 160 \text{ mg/dL})$	138	1	0.7%	59	0	0	337	1	0.3%
Borderline to High (100 – 159 to > 160 mg/dL)	192	18	9.4%	77	14	18.2%ª	463	33	7.1%
Normal/Borderline to High (< 160 to ≥ 160 mg/dL)	330	19	5.8%	136	14	10.3%ª	800	34	4.3%
Normal to Borderline/High (< 100 to ≥ 100 mg/dL)	138	35	25.4%	59	12	20.3%	337	68	20.2%
HDL		ļ			1	Į.	1	1	ļ
Decrease by ≥ 20 mg/dL	912	26	2.9% ^b	350	15	4.3% ^a	1820	31	1.7%
Normal to Low (> 40 to < 40 mg/dL)	725	87	12%ª	276	22	8%	1484	131	8.8%
Triglycerides, fasting	-	1	1		1	1		1	l
Increase by $\geq 50 \text{ mg/dL}$	386	88	22.8% ^a	151	39	25.8% ^a	887	106	12%
Normal to High $(< 150 \text{ to } \ge 200 \text{ mg/dL})$	259	20	7.7% ^a	96	7	7.3%	615	25	4.1%
Normal to Very High $(< 150 \text{ to} \ge 500 \text{ mg/dL})$	259	0	0	96	1	1%	615	0	0
Borderline to High $(150 - 199 \text{ to} \ge 200 \text{ mg/dL})$	52	16	30.8%	26	10	38.5% ^a	125	23	18.4%
Borderline to Very High $(150 - 199 \text{ to} \ge 500 \text{ mg/dL})$	52	1	1.9%	26	2	7.7% ^a	125	0	0
Normal/Borderline to High (< 200 to ≥ 200 mg/dL)	311	36	11.6%ª	122	17	13.9%ª	740	48	6.5%
Normal/Borderline to Very High (< 200 to ≥ 500 mg/dL)	311	1	0.3%	122	3	2.5% ^a	740	0	0

Normal to	259	52	20.1% ^a	96	20	20.8% ^b	615	80	13%
Borderline/High/Very High									
$(< 150 \text{ to} \ge 150 \text{ mg/dL})$									

^a statistically significant versus placebo

b borderline statistically significant versus placebo (p \leq 0.06) From Sponsor Tables 179, 185, 193, 199, 207, 213, 221, 227 in 2/18/09 submission

7.2 Adult Subjects in Comparator-Controlled Trials

7.2.1 Mean Change Analyses

1. Mean lipid change (in mg/dl) from baseline to endpoint

In comparison of mean lipid change of total cholesterol, fasting LDL, HDL, and fasting triglycerides from baseline to endpoint of quetiapine compared with olanzapine, risperidone, chlorpromazine and haloperidol, only difference noted was a greater mean increase in total cholesterol: 8.0 vs. 16 mg in QTP vs. olanzapine; 7 vs. 2 mg/dL in QTP vs. risperidone (~SD 40)

Table 158: Lipids, change from baseline (BL) to end of treatment (EOT) (comparator-controlled trials)

			ment (EO1) (4.		1	
Measurements in mg/dl	QTP	OLZ	QTP	RIS	QTP	CHL	QTP	HAL
N =	234	245	435	450	68	76	94	89
Mean (SD) T-C at BL	187.3 (46.2)	185 (43)	191(46)	193(44	179(38	177(37	180.5 (34)	176 (33)
Mean (SD) T-C at EOT	195.4 (48.1)	201 (50)	198(46)	191(41	209(59	197(42	183 (38.0)	176 (33)
Mean (SD) T-C Change	8.0 (38.0)	15.9 (41)	7 (38)	-2 (36)	29 (53)	20 (31)	2.4 (25.3)	-0.3 (27)
p-value	0.029	-	< 0.001	-	0.188	-	0.473	-
Modal (SD) Dose (mg)	592.7 (175)	14.5 (4.1)	595(193	5	588(71	584(58	256(153	8.0 (5)
Median Exp (days)	168	168	58	57	70	70	56	56
N =	22	31	22	23	-	-	-	-
Mean (SD) F-LDL at BL	109.2 (37.3)	108.9 (28)	109 (37)	108(31	-	-	-	-
Mean (SD) F-LDL at EOT	114.1 (41.0)	115 33)	114 (41)	109(41	-	-	-	-
Mean (SD) F-LDL Change	4.9 (36.3)	6.7 (29.8)	5 (36)	2 (28)	-	-	-	-
p-value	0.841	-	0.725	-	-	-	-	-
Modal (SD) Dose (mg)	627 (161)	13.1 (4.4)	627 (161)	3(1)	-	-	-	-
Median Exp (days)	325	253	352	364	-	-	-	-
	•	•					•	•
N =	217	236	417	437	-	-	_	-
Mean (SD) HDL at BL	45.5 (13.3)	44.7 (11)	47 (14	47(14)	-	-	-	-
Mean (SD) HDL at EOT	44.5 (11.7)	42.5 (12)	47 (13)	47(13)	-	-	-	-
Mean (SD) HDL Change	-1.0 (10.1)	-2.1 (11)	-0.9	0	-	-	-	-
p-value	0.206	-	0.246		-	-	-	-
Modal (SD) Dose (mg)	591 (177)	591 (177)	595(195	5	-	-	-	-
Median Exp (days)	168	168	57	57	-	-	-	-
1		•	I.	•		L	•	•
N =	23	32	23	23	-	-	-	-
Mean (SD) F-Trig at BL	122.4 (62.2)	96.5 (53)	122 (62)	110(73	-	-	-	-
Mean (SD) F-Trig at EOT	141.7 (82.0)	137.4 (90)	142(82)	111(66	-	-	-	-
Mean (SD) F-Trig Change	19.3 (58.6)	40.9 (87)	19 (59)	0.8(59)	-	-	-	-
p-value	0.304	-	0.293	-	-	-	-	-
Modal (SD) Dose (mg)	613.0 (171)	13.3 (4.5)	613	2.6	-	-	-	-
Median Exp (days)	350	348	350	364	-	-	-	-

 $Information obtained from Sponsor table 98, 100, 103 and 133 in Clinical Study Report, TC - Total cholesterol, BL - Baseline, \\ EOT - End of treatment, Exp - Exposure, F-LDL - Fasting LDL, F-Trig - Fasting triglycerides, NF - Trig - Non fasting triglycerides, \\ Information obtained from Sponsor table 98, 100, 103 and 133 in Clinical Study Report, TC - Total cholesterol, BL - Baseline, \\ EOT - End of treatment, Exp - Exposure, F-LDL - Fasting LDL, F-Trig - Fasting triglycerides, NF - Trig - Non fasting triglycerides, \\ Information obtained from Sponsor table 98, 100, 103 and 133 in Clinical Study Report, TC - Total cholesterol, BL - Baseline, \\ EOT - End of treatment, Exp - Exposure, F-LDL - Fasting LDL, F-Trig - Fasting triglycerides, \\ Information obtained from Sponsor table 98, 100, 103 and 133 in Clinical Study Report, TC - Total cholesterol, BL - Baseline, \\ Information obtained from Sponsor table 98, 100, 103 and 133 in Clinical Study Report, TC - Total cholesterol, BL - Baseline, \\ Information obtained from Sponsor table 98, 100, 103 and 133 in Clinical Study Report, TC - Total cholesterol, \\ Information obtained from Sponsor table 98, 100, 103 and 133 in Clinical Study Report, \\ Information obtained from Sponsor table 98, 100, 103 and 133 in Clinical Study Report, \\ Information obtained from Sponsor table 98, 100, 103 and 133 in Clinical Study Report, \\ Information obtained from Sponsor table 98, 100, 103 and 133 in Clinical Study Report, \\ Information obtained from Sponsor table 98, 100, 103 and 133 in Clinical Study Report, \\ Information obtained from Sponsor table 98, 100, 103 and 133 in Clinical Study Report, \\ Information obtained from Sponsor table 98, 100, 103 and 133 in Clinical Study Report, \\ Information obtained from Sponsor table 98, 100, 103 and 133 in Clinical Study Report, \\ Information obtained from Sponsor table 98, 100, 103 and 133 in Clinical Study Report, \\ Information obtained from Sponsor table 98, 100, 103 and 133 an$ OLZ - olanzapine, RIS - risperidone, CHL - chlorpromazine, HAL - haloperidol, QTP - quetiapine

2. Mean lipid change (in mg/dl) from baseline to endpoint(\geq 12 weeks and \geq 24 weeks exposure)

For comparison of mean lipid change of total cholesterol, fasting LDL, HDL, and fasting triglycerides from baseline to endpoint over time (\geq 12 weeks and \geq 24 weeks exposure) of quetiapine compared with olanzapine and risperidone, no significant differences were noted.

Table 159: lipids, change from baseline (BL) to end of treatment (EOT), exposure at > 12 and ≥ 24 weeks (comparator-controlled trials)

	Exposure at > 1	2 weeks	Exposure at \geq	24 weeks
	QTP	OLZ	QTP	RIS
N =	201	236	138	165
Mean (SD) Total cholesterol (mg/dL) at BL	187.1(45.1)	184.8 (43.7)	190.6 (46)	184 (41)
Mean (SD) Total cholesterol (mg/dL) at EOT	196.7 (47)	201.3 (50.7)	199 (47.3)	199 (45)
Mean (SD) Total cholesterol (mg/dL) Change	9.7 (39.3)	16.5 (41.3)	8.4 (37.7)	15.7 (36)
p-value	0.086		0.095	
Modal (SD) Dose (mg)	607.0 (164)	14.5 (3.9)	600.7 (161)	14 (4.1)
Median Exposure (days)	169	169	175	172
N =	20	29	18	25
Mean (SD) LDL fasting (mg/dL) at BL	106.3 (37)	109.1 (28.4)	101(26.1)	105 (27)
Mean (SD) LDL fasting (mg/dL) at EOT	110.1 (39)	117.2 (33.7)	106 (38.7)	111 (30)
Mean (SD) LDL fasting (mg/dL) Change	3.9 (37.9)	8.1 (30.2)	4.9 (36.5)	6.4 (28)
p-value	0.664	` '	0.886	
Modal (SD) Dose (mg)	635 (159.9)	13.3 (4.3)	622.2 (163)	12.8 (4)
Median Exposure (days)	359	346	363	360
		1	T	
N =	189	227	130	158
Mean (SD) HDL (mg/dL) at BL	44.9 (13.3)	44.6 (11.3)	45.8 (13.4)	45 (11)
Mean (SD) HDL (mg/dL) at EOT	44.3 (11.7)	42.5 (11.8)	44.6 (11.6)	42.8 (12)
Mean (SD) HDL (mg/dL) Change	0.6 (10.2)	-2.1 (10.8)	1.3 (10.0)	-1.9 (11)
p-value	0.140		0.534	
Modal (SD) Dose (mg)	604.3 (166)	14.5 (4.0)	596.1 (165)	14.1 (4)
Median Exposure (days)	169	169	176	173
N =	21	30	18	25
Mean (SD) Triglycerides, fasting (mg/dL) at BL	121.0 (65)	98.7 (53.6)	112.7 (52)	99.2 (56)
Mean (SD) Triglycerides, fasting (mg/dL)at EOT	135.3 (83)	137.4 (92.5)	125.8 (56)	126 (56)
Mean (SD) Triglycerides, fasting (mg/dL) Change	14.4 (58.7)	38.7 (87.4)	13.8 (56.3)	26.6 (56)
p-value	0.272	` ′	0.463	` ′
Modal (SD) Dose (mg)	619 (172)	13.5 (4.4)	622.2 (163)	12.8 (4)
Median Exposure (days)	355	300	363	360

Information obtained from Sponsor table 104 and 105 in Clinical Study Report

7.2.2 Categorical Analyses

In analyses of treatment-emergent significant changes (fasting baseline and post-baseline lipid measurements) for active-comparator controlled trials with chlorpromazine, haloperidol, olanzapine or risperidone controlled trials, no significant differences were observed in most of these outlier categories between the active-comparator and QTP except that some trends of increase in outliers percentage were noted the QTP group in risperidone controlled trials for the following categories:

1. Total Cholesterol outliers

Table 160: Proportion of Patients with treatment emergent shifts in cholesterol (risperidone-controlled trials)

Total cholesterol (mg/dL) (fasting and non-fasting)	QTP Post-ba	seline		risperio Post-ba			p-value	
Baseline (BL)	n(%)	>240	>200	n(%)	>240	>200	>240	>200
Normal <200	270	22 (8.1)	86 (32)	266	10 (4)	65 (24)	0.044	0.068
Borderline ≥200 to <240	105	23 (22)	-	125	19 (15)	-	0.231	-
Normal/Borderline <240	375	45 (12)	-	391	29 (7)	-	0.037	-
	•				/	•		
Mean (SD) BL Nl	270	163 (23)	163 (23	266	165(24)	165 (24	-	
Mean (SD) BL Brd	105	217 (11)	-	125	216 (11	-	-	
Mean (SD) BL NI/Brd	375	178 (32)	-	391	181 (31	-	-	
Mean (SD) EOT NI	270	180 (38	181 (38	266	174 (35	176 (36	-	
Mean (SD) EOT Brd	105	217 (32)	-	125	207 (36	-	-	
Mean (SD) EOT Nl/Brd	375	191(40)	-	391	185(38)	-	-	
Mean (SD) change Nl	270	17 (33)	18(33)	266)	10 (29)	11 (29)	-	
Mean (SD) change Brd	105	0.3 (32)	-	125	8.1 (36	-	-	
Mean (SD) change Nl/Brd	375	12 (34)	-	391	4 (32)	-	-	
	<u></u>							
Modal (SD) Dose (mg)	597.3 (197.0)		5.0 (2.0)				
Median Exposure (days)	57			57	•			

Information obtained from Sponsor table 136 in Clinical Study Report

2. Total Cholesterol outliers Over Time of Exposure (\geq 12 and \geq 24 weeks)

Table 161: Proportion of Patients with treatment emergent shifts of total cholesterol at ≥12 weeks (risperidone-controlled trials)

Total cholesterol (mg/dL) (fasting and non-fasting)	QTP Post-ba				ridone aseline	p-value	p-value		
Baseline (BL)	n(%)	<u>≥</u> 240	≥200	n(%)	<u>≥</u> 240	<u>≥</u> 200	≥240	≥ <u>200</u>	
Normal <200	136	17 (12.5)	52 (38.2)	132	7 (5.3)	41 (31)	0.053	0.25	
Borderline ≥200 to <240	37	8 (21.6)	-	55	12 (21.8)	-	-	-	
Normal/Borderline <240	173	25 (14.5)	-	187	19 (10.2)	-	-	-	

Modal (SD) Dose in mg	613.4 (164)	4.3 (1.7)
Median Exposure (days)	173	187

Information obtained from Sponsor table 137 in Clinical Study Report

<u>Table 162: Proportion of Patients with treatment emergent shifts of total cholesterol at \geq 24 weeks (risperidone-controlled trials)</u>

Total cholesterol (mg/dL) (fasting and non-fasting)	QTP Post-ba				ridone aseline	p-value		
Baseline (BL)	n(%)	<u>≥</u> 240	<u>≥</u> 200	n(%)	<u>≥</u> 240	<u>≥</u> 200	≥240	≥200
Normal <200	88	13 (15)	38 (43)	111	7 (6.3)	47 (42)	0.045	0.13
Borderline ≥200 to <240	28	7 (25.0)	-	40	17 (42)	-	-	-
Normal/Borderline <240	116	20 (17)	-	151	24 (16)	-	-	-
	•		•	•		•	•	-

Modal (SD) Dose (mg)	613.0 (158.1)	4.2 (1.8)
Median Exposure (days)	177	173

Information obtained from Sponsor table 138 in Clinical Study Report

3. Total Cholesterol \geq 40 mg/dl outliers

Table 163: Proportion of Patients with treatment emergent shifts of total cholesterol ≥ 40 mg/dl increase (Risperidone-controlled trials)

Total cholesterol (mg/dL)	Post-baseline total cholesterol \geq 40 mg/dl increase						
(fasting and non-fasting)	QTP		risperidone				
Baseline (BL)	N	n (%)	N	n (%)			
Any value	435	86 (19.8)	450	64 (14.2) p=0.031			
Normal <200 mg/dL	270	70 (50.9)	266	48 (18) p=0.029			

Borderline ≥200 to <240	105	11 (10.5)	125	13 (10.4)
High <u>></u> 240	60	5 (8.3)	59	3 (5.1)
Modal (SD) Dose in mg	595.1 (193	3.4)	5.0 (2.0)	
Median Exposure (days)	58		57	

Information obtained from Sponsor table 139 in Clinical Study Report

4. Total Cholesterol \geq 40 mg/dl outliers over time (\geq 12 weeks of exposure)

Table 164: Proportion of Patients with treatment emergent shifts of total cholesterol ≥ 40 mg/dl increase (Risperidone-controlled trials)

Total cholesterol (mg/dL)	Post-baseline at ≥ 12 wks exposure				
(fasting and non-fasting)	QTP		risperidone		
Baseline (BL)	n (%)	<u>≥</u> 40	n (%)	<u>≥</u> 40	
Any value	201	55 (27)	236	78 (33)	
Normal <200	136	48 (35)	160	62 (39) p=0.044	
Borderline ≥200 to <240	37	4 (11)	54	11 (20)	
High_>240	28	3 (11)	22	5 (23)	
				_	
Modal (SD) Dose in mg	607.0 (16	4.3)	4.3 (1.7)	_	
Median Exposure (days)	169		169		

Information obtained from Sponsor table 140 in Clinical Study Report

7.3 Adult Subjects in Long Term Controlled and Uncontrolled Clinical Trials

7.3.1 Mean Change Analyses

1. Mean lipid Change (in mg/dl) from baseline to endpoint

The quetiapine-treated subjects (N = 11103) with a mean modal daily dose of 389 mg, had a mean total cholesterol change of 2.7 with a median exposure of 65 days. The fasting triglyceride mean change was 13 in QTP treated (mean modal daily dose of 382 mg) with a median exposure of 74 days. The fasting LDL mean change was 0.4 in QTP treated subjects. The fasting HDL mean change was -1.5 in QTP treated subjects.

Table 165: Lipids, change from baseline (BL) to end of treatment (EOT) (All QTP trials)

	QTP
N =	11103
Mean (SD) Total cholesterol (mg/dL) at BL	194.4 (43.9)
Mean (SD) Total cholesterol (mg/dL) at EOT	197.0 (44.6)
Mean (SD) Total cholesterol (mg/dL) Change	2.7 (32.8)
p-value	-
Modal (SD) Dose (mg)	389.3 (244.3)
Median Exposure (days)	65
N =	5293
Mean (SD) LDL fasting (mg/dL) at BL	114.7 (37.4)
Mean (SD) LDL fasting (mg/dL) at EOT	115.1 (37.4)
Mean (SD) LDL fasting (mg/dL) Change	0.4 (27.4)
p-value	-
Modal (SD) Dose (mg)	382.4 (232.3)
Median Exposure (days)	74
	·
N =	10250
Mean (SD) HDL (mg/dL) at BL	52.4 (15.2)
Mean (SD) HDL (mg/dL) at EOT	50.9 (15.1)
Mean (SD) HDL (mg/dL) Change	-1.5 (10.0)
p-value	-
Modal (SD) Dose (mg)	393.6 (246.8)
Median Exposure (days)	69

N =	5318	
Mean (SD) Triglycerides, fasting (mg/dL) at BL	144.3 (102.9)	
Mean (SD) Triglycerides, fasting (mg/dL)at EOT	157.2 (124.1)	
Mean (SD) Triglycerides, fasting (mg/dL) Change	12.8 (98.2)	
p-value	-	
Modal (SD) Dose (mg)	382.4 (232.2)	
Median Exposure (days)	74	

Information obtained from Sponsor table 163 in Clinical Study Report

2. *Mean lipid Change (in mg/dl) from baseline to endpoint* (\geq 12 and \geq 24 weeks)

The quetiapine-treated subjects (N = 4331) with a modal daily dose of 411 mg, had a mean total cholesterol change of 2.4 with a median exposure time of \ge 12 weeks compared to quetiapine-treated subjects (N = 1893) with a modal daily dose of 398 mg, had a mean total cholesterol change of 2.5 with a exposure time of \ge 24 weeks. Please see below table for mean changes related to fasting triglyceride, fasting LDL, fasting HDL at \ge 12 and \ge 24 weeks of exposure.

Table 166: Lipids, change from baseline (BL) to end of treatment (EOT), exposure ≥12 and ≥24 weeks (All QTP trials)

	QTP exposure \geq 12 weeks	QTP exposure ≥ 24 weeks
N =	4331	1893
Mean (SD) Total cholesterol (mg/dL) at BL	193.1 (44.9)	193.5 (44.8)
Mean (SD) Total cholesterol (mg/dL) at EOT	195.5 (44.8)	196.0 (45.6)
Mean (SD) Total cholesterol (mg/dL) Change	2.4 (35.4)	2.5 (37.4)
p-value	-	-
Modal (SD) Dose (mg)	411.1 (264.0)	398.0 (228.5)
Median Exposure (days)	152	260
N =	2415	1090
Mean (SD) LDL fasting (mg/dL) at BL	113.2 (37.9)	113.5 (37.8)
Mean (SD) LDL fasting (mg/dL) at EOT	113.9 (37.1)	114.1 (38.0)
Mean (SD) LDL fasting (mg/dL) Change	0.7 (29.0)	0.6 (29.5)
p-value	-	-
Modal (SD) Dose (mg)	384.4 (236.7)	381.4 (224.7)
Median Exposure (days)	154	276
N =	4094	1712
Mean (SD) HDL (mg/dL) at BL	52.4 (15.2)	52.8 (15.1)
Mean (SD) HDL (mg/dL) at EOT	50.2 (15.1)	50.4 (15.4)
Mean (SD) HDL (mg/dL) Change	-2.1 (10.7)	-2.4 (11.2)
p-value	-	-
Modal (SD) Dose (mg)	411.0 (266.2)	399.3 (230.5)
Median Exposure (days)	147	257
N =	2424	1092
Mean (SD) Triglycerides, fasting (mg/dL) at BL	144.5 (103.6)	147.5 (106.0)
Mean (SD) Triglycerides, fasting (mg/dL)at EOT	157.7 (121.9)	155.0 (122.6)
Mean (SD) Triglycerides, fasting (mg/dL) Change	13.2 (99.7)	7.6 (103.5)
p-value	-	-
Modal (SD) Dose (mg)	384.2 (236.7)	381.6 (224.6)
Median Exposure (days)	154	275

Information obtained from Sponsor table 164 and 165 in Clinical Study Report

7.3.2 Categorical Analyses

1. Total Cholesterol outliers

Regardless of baseline total cholesterol value, the proportion of total cholesterol outliers increased in all QTP treated patients.

Table 167: Proportion of Patients with treatment emergent shifts of total cholesterol (All QTP trials)

Total cholesterol (mg/dL)	QTP					
(fasting and non-fasting)	Post-baseline					
Baseline (BL)	n (%)	>240	≥ <u>200</u>			
Normal <200	6565	278 (4.2)	1591 (24.2)			
Borderline ≥200 to <240	2944	674 (23)	-			
Normal/Borderline <240	9509	952 (10)	-			
Mean (SD) BL value for Normal	6565	166 (24)	165.9 (23.5)			
Mean (SD) BL value for Borderline	2944	218 (11.0)	-			
Mean (SD) BL value for Normal/Borderline	9509	181.8 (31)	-			
Mean (SD) value at EOT for Normal	6565	176.2 (34)	176.7 (33.9)			
Mean (SD) value at EOT for Borderline	2944	216.6 (32)	-			
Mean (SD) value at EOT for Normal/Borderline	9509	188.7 (38)	-			
Mean (SD) change for Normal	6565	10.3 (28.8)	10.8 (28.7)			
Mean (SD) change for Borderline	2944	-0.8 (31.3)	=			
Mean (SD) change for Normal/Borderline	9509	6.9 (30.0)	-			
		1				
Modal (SD) Dose (mg)	389.8 (2	44.0)				
Median Exposure (days)	65	,				

Information obtained from Sponsor table 166 in Clinical Study Report

2. Total Cholesterol outliers over time

Regardless of baseline total cholesterol value, the proportion of total cholesterol outliers increased in the QTP treated patient s increases over time of exposure.

Table 168: Proportion of Patients with treatment emergent shifts of total cholesterol at ≥12 and ≥24 wks exposure (All QTP trials)

Total cholesterol (mg/dL)	QTP			QTP			
(fasting and non-fasting)	Post-ba	aseline exposur	e ≥12 wks	Post-bas	Post-baseline exposure ≥24 wks		
Baseline (BL)	n (%)	>240	>200	n (%)	>240	>200	
Normal <200	2601	150 (6)	723 (28)	1125	91(8)	361(32)	
Borderline ≥200 to <240	1121	287 (26)	-	499	151(30)	-	
Normal/Borderline <240	3722	437 (12)	-	1624	242(15)	-	
Mean (SD) BL value for Normal	2601	165 (24)	165 (24)	1125	164(24)	164(24)	
Mean (SD) BL value for Borderline	1121	218 (11)	-	499	218(11)	-	
Mean (SD) BL value for Normal/Borderline	3722	181 (32)	-	1624	181(32)	-	
	1				1	1	
Mean (SD) value at EOT for Normal	2601	176 (37)	178(37)	1125	178(39)	180(39)	
Mean (SD) value at EOT for Borderline	1121	216 (33)	-	499	218(35)	-	
Mean (SD) value at EOT for NL/Borderline	3722	188 (40)	-	1624	190(42)	-	
		T			1	1	
Mean (SD) change for Normal	2601	12 (32)	13 (32)	1125	13 (35)	15(34)	
Mean (SD) change for Borderline	1121	-1.5(32)	-	499	-0(34)	-	
Mean (SD) change for Normal/Borderline	3722	7.8 (33)	-	1624	9 (35)	-	
Modal (SD) Dose (mg)	413.1 ((262.4)		399 0 (2	27.3)		
Median Exposure (days)	151	202.4)		261	399.0 (227.3) 261		

Information obtained from Sponsor table 167 and 168 in Clinical Study Report,

3. Total Cholesterol \geq 40 mg/dl increase outliers

Regardless of baseline total cholesterol value, the proportion of total cholesterol >40 mg increase in the QTP treated patient s increases over time of exposure as compared to the placebo group.

Table 169: Proportion of Patients with treatment emergent shifts of total cholesterol ≥ 40 mg/dl increase and by time (All QTP trials)

Total cholesterol (mg/dL)	QTP - P	ost-baseline		QTP - Post-baseline		st-baseline	
(fasting and non-fasting)		_		vks exposure		ks exposure	
Baseline (BL)	n (%)	>40	n (%)	>40	n (%)	>40	
Any value	11103	1380 (12)	4331	654 (15.1)	1893	364 (19.2)	
Normal <200	6565	970 (14.8)	2601	484 (18.6)	1125	270 (24.0)	
Borderline ≥200 to <240	2944	296 (10.1)	1121	119 (10.6)	499	67 (13.4)	
High_>240	1594	114 (7.2)	609	51 (8.4)	269	27 (10.0)	
Mean (SD) BL value for Any value	11103	194.4 (44)	4331	193.1 (45)	1893	193 (45)	
Mean (SD) BL value for Normal	6565	165.9 (23)	2601	164.5 (24)	1125	164.4 (24.0)	
Mean (SD) BL value for Borderline	2944	217.5 (11)	1121	218.0 (11)	499	218.1 (11.0)	
Mean (SD) BL value for High	1594	269.0 (32)	609	269.1 (34)	269	269.5 (33.0)	
Mean (SD) value at EOT for Any value	11103	197.8 (45)	4331	196.9 (46)	1893	198.6 (46.8)	
Mean (SD) value at EOT for Normal	6565	176.6 (34)	2601	177 (36)	1125	179.3 (38.2)	
Mean (SD) value at EOT for Borderline	2944	216.2 (32)	1121	215.3 (33)	499	216.6 (36.2)	
Mean (SD) value at EOT for High	1594	250.9 (46)	609	247.2 (47)	269	245.8 (50.0)	
Mean (SD) change for Any value	11103	3.4 (33.5)	4331	3.8 (36.7)	1893	5.1 (39.2)	
Mean (SD) change for Normal	6565	10.8 (29)	2601	12.7 (32.3)	1125	14.9 (34.8)	
Mean (SD) change for Borderline	2944	-1.2 (32)	1121	-2.6 (32.6)	499	-1.5 (35.7)	
Mean (SD) change for High	1594	-18.1 (42)	609	-22.0 (45)	269	-23.7 (45.8)	
Modal (SD) Dose (mg)	389.3 (2	44.3)	411.1 (2	411.1 (264.0)		398.0 (228.5)	
Median Exposure (days)	65		152	<u> </u>	260		

Information obtained from Sponsor table 169, 170 and 171 in Clinical Study Report

4. Total HDL outliers

Table 170: Proportion of Patients with treatment emergent shifts of total HDL (All QTP trials)

Total HDL (mg/dL) (fasting and non-fasting)	QTP -Post-baseline		`	QTP- Post-baseline at ≥12 wks exposure		ost-baseline ks exposure
Baseline (BL)	n (%)	<40	n (%)	<40	n (%)	<40
Normal ≥ 40	8311	1126 (14)	3325	608(18)	1412	302 (21.4)
				-		·
Mean (SD) Normal at BL	8311	57 (13.6)	3325	57 (14)	1412	56.7 (13.6)
Mean (SD) Normal at EOT	8311	54 (14.5)	3325	53 (15)	1412	52.6 (15.0)
Mean (SD) change for NI	8311	-2.6 (10)	3325	-4 (11)	1412	-4.1 (11.3)
	•		•	-		
Modal (SD) Dose (mg)	380.7 (24	13.5)	391.0 (2:	59.0)	381.6 (22	25.4)
Median Exposure (days)	69		147	147		•

Information obtained from Sponsor table 173 and 174 in Clinical Study Report

5. Total HDL \geq 20 mg/dL decrease outliers

Table 171: Proportion of Patients with treatment emergent shifts of total HDL \geq 20 mg/dL decrease (All QTP trials)

Total HDL (mg/dL)	QTP - Po	ΓP - Post-baseline QTP - Post-baseline		QTP - P	ost-baseline		
≥ 20 mg/dL decrease			at ≥12 w	at \geq 12 wks exposure		vks exposure	
Baseline (BL)	n (%)	≥20 mg/dL	n (%)	≥20 mg/dL	n (%)	≥20 mg/dL	
Any value	10250	398 (3.9)	4094	233 (5.7)	1712	127 (7.4)	
Normal >40	8311	394 (4.7)	3325	230 (6.9)	1412	124 (8.8)	
Low ≤ 40	1939	4 (0.2)	769	3 (0.4)	300	3 (1.0)	
		_			_		
Mean (SD) BL value	10250	52.4 (15.2)	4094	52.4 (15.2)	1712	52.8 (15.1)	
for Any value							
Mean (SD) BL value	8311	56.6 (13.6)	3325	56.6 (13.7)	1412	56.7 (13.6)	
for Normal value							
Mean (SD) BL value	1939	34.3 (4)	769	34.1 (4.2)	300	34.1 (4.0)	
for Low value							
	1	1		T ====================================		T	
Mean (SD) value at	10250	50.8 (15.1)	4094	50.0 (15.0)	1712	49.9 (15.2)	
EOT for Any value							
Mean (SD) value at	8311	54.1 (14.4)	3325	53.1 (14.3)	1412	52.7 (14.3)	
EOT for Normal value							
Mean (SD) value at	1939	36.6 (9)	769	36.5 (9.7)	300	36.6 (11.6)	
EOT for Low value							
Mean (SD) change	10250	-1.6 (10.2)	4094	-2.4 (11.1)	1712	-2.8 (11.8)	
for Any value	10230	-1.0 (10.2)	4094	-2.4 (11.1)	1/12	-2.6 (11.6)	
Mean (SD) change	8311	-2.5 (10.3)	3325	-3.5 (11.1)	1412	-4.0 (11.6)	
for Normal value	0311	2.3 (10.3)	3323	3.3 (11.1)	1712	4.0 (11.0)	
Mean (SD) change	1939	2.4 (8)	769	2.4 (9.6)	300	2.5 (11.6)	
for Low value	1,3,	2.1 (0)	1,00	2.1 (2.0)	1 300	2.5 (11.5)	
101 2011 14140	I	_ I				1	
Modal (SD) Dose	393.6 (24	6.8)	411.0 (2	66.2)	399.3 (2	(30.5)	
Median Exp (days)	69	,	147		257		

Information obtained from Sponsor table 175, 176 and 177 in Clinical Study Report

6. Total fasting LDL outliers

Table 172: Proportion of Patients with treatment emergent shifts of fasting LDL (All QTP trials)

Fasting LDL(mg/dL)	QTP -Post-baseline			QTP- P	ost-baseline		QTP - Post-baseline			
				at ≥12 v	wks exposure		at ≥24	wks exposu	ire	
Baseline (BL)	n (%)	>160	>100	n (%)	>160	>100	n %)	>160	>100	
Normal <100	1943	24(1)	615(32)	951	16 (1.7)	337(35)	435	10 (2.3)	170(39)	
Borderline ≥100 to<160	2802	285(10)	-	1228	145 (11)	-	544	76 (14)	-	
Normal/Borderline<160	4745	309 (6)	-	2179	161 (7.4)	-	979	86 (8.8)	-	
Mean (SD) BL value	1943	79	79	951	78.6	78.6	435	78.5	78.5	
for Any value		(16)	(16)		(16.3)	(16.3)		(16.6)	(16.6)	
Mean (SD) BL value	2802	125	-	1228	125.9	-	544	126.5	-	
for Normal value		(16)			(16.6)			(16.3)		
Mean (SD) BL value	4745	106	-	2179	105.2	-	979	105.2	-	
for Low value		(28)			(28.7)			(29.0)		
Mean (SD) value at	1943	88.3	88.9	951	89.2	90.3	435	89.0	90.9	
EOT for Any value		(26.4)	(26.4)		(27.9)	(27.8)		(29.2)	(29.1)	
Mean (SD) value at	2802	124.3	-	1228	124.9	-	544	126.1	-	
EOT for Normal value		(28.0)			(28.6)			(29.7)		
Mean (SD) value at	4745	109.6	-	2179	109.3	-	979	109.7	-	
EOT for Low value		(32.6)			(33.4)			(34.8)		
	ı		-			1		1		
Mean (SD) change	1943	9.4 (23)	10.0	951	10.6	11.7	435	10.6	12.4	
for Any value			(23)		(24.9)	(24.6)		(25.7)	(25.3)	
Mean (SD) change	2802	-1.1 (26)	-	1228	-1.0		544	-0.4	-	
for Normal value					(26.8)			(28.7)		
Mean (SD) change	4745	3.2 (25)	-	2179	4.0	-	979	4.5	-	
for Low value					(26.6)			(27.9)		

101

Modal (SD) Dose	382.7 (233.2)	388.4 (237.8)	387.6 (226.4)
Median Exp (days)	74	154	278

Information obtained from Sponsor table 178, 179 and 180 in Clinical Study Report

7. Total fasting $LDL \ge 30 \text{ mg/dl}$ increase outliers

Table 173: Proportion of Patients with treatment emergent shifts of fasting LDL ≥ 30 mg/dL increase (All QTP trials)

fasting LDL ≥ 30 mg/dL increase	QTP -Po	ost-baseline		ost-baseline vks exposure		QTP - Post-baseline at >24 wks exposure		
Baseline (BL)	n (%)	> 20/ JT		>30 mg/dL	n (%)	>30 mg/dL		
Any Value	5293	>30 mg/dL 687 (13.0)	n (%) 2415	398 (16.5)	1090	214 (19)		
		(/				()		
Normal < 100	1943	333 (17.1)	951	212 (22.3)	435	114 (26)		
Borderline ≥100 to <160	2802	318 (11.3)	1228	167 (13.6)	544	90 (16.5)		
Normal/Borderline < 160	548	36 (6.6)	236	19 (8.1)	111	10 (9.0)		
Mean (SD) BL value	5293	114.7	2415	113.2 (37.9)	1090	113.5 (37.8)		
for Any value		(37)						
Mean (SD) BL value	1943	78.9	951	78.6	435	78.5 (16.6)		
for Normal value		(16)		(16.3)				
Mean (SD) BL value	2802	125.4 (16.3)	1228	125.9 (16.6)	544	126.5 (16.3)		
for Borderline value		, ,		,		, ,		
Mean (SD) BL value	548	186.7 (30.8)	236	186.9 (33.4)	111	186.7 (25.9)		
for NL/BL value		, ,		,		, ,		
		· I	I	.	ų.			
Mean (SD) value at EOT	5293	115.6 (37.6)	2415	115.1 (37.6)	1090	116.2 (38.7)		
for Any value		, ,		()		, ,		
Mean (SD) value at EOT	1943	88.9 (26.6)	951	90.3	435	91.1 (29.6)		
for Normal value		` ′		(28.1)		, ,		
Mean (SD) value at EOT	2802	124.3 (28.1)	1228	125.0 (28.7)	544	126.5 (29.8)		
for Borderline value		, ,		()		, ,		
Mean (SD) value at EOT	548	165.9 (41.3)	236	163.3 (40.8)	111	163.7 (41.3)		
for NL/BL value		, ,		()		, ,		
		•		•		•		
Mean (SD) change	5293	1.0	2415	1.9	1090	2.7 (30.9)		
for Any value		(27.9)		(29.9)				
Mean (SD) change	1943	10.0 (23.5)	951	11.8	435	12.7 (26.2)		
for Normal value				(25.2)				
Mean (SD) change	2802	-1.1 (25.7)	1228	-0.9	544	-0.1 (28.9)		
for Borderline value				(27.1)		` ′		
Mean (SD) change	548	-20.8 (37.2)	236	-23.6 (41.1)	111	-22.9 (38.9)		
for NL/BL value						, , ,		
		•	•	•	•	•		
Modal (SD) Dose (mg)	382.4 (2	382.4 (232.3)		236.7)	381.4 (224.7)			
Median Exposure (days)	74		154		276			
Information obtained from Sno	4.11.1	01 102 1102	CI: : 1.0	24 I D				

Information obtained from Sponsor table 181, 182 and 183 in Clinical Study Report

8. Fasting Triglycerides outliers Over Time

Table 174: Proportion of Patients with treatment emergent shifts of fasting triglycerides (All QTP trials)

Triglycerides, Fasting (mg/dL)	QTP -Post-baseline				QTP- Post-baseline at ≥12 wks exposure				QTP - Post-baseline at ≥24 wks exposure			
Baseline (BL)	n (%)	≥500	<u>≥</u> 200	<u>≥</u> 150	n (%)	≥500	<u>≥</u> 200	≥150	n (%)	≥500	≥200	≥150
Normal	3559	6 (0)	341 (10)	821	1629	3 (0.2)	184	423	720	1 (0.1)	89	199
<150				(23)			(11.3)	(26)			(12.4)	(27.6)
Borderline	806	17(2)	297 (37)	-	362	10 (2.8)	152	-	166	5 (3.0)	69	-
≥150 to <200							(42.0)				(41.6)	
Normal/Borderline	4365	23 (0)	638 (15)	-	1991	13 (0.7)	336	-	886	6 (0.7)	158	-
< 200							(16.9)				(17.8)	
Mean (SD) BL	3559	93.8	93.8	93.8	1629	94.3	94.3	94	720	93.6	93.6	93.6
value for Normal		(28.5)	(28.5)	(28)		(27.7)	(27.7)	(27)		(27.9)	(27.9)	(27.9)
Mean (SD) BL	806	173.0	173.0	-	362	172.8	172.8	-	166	172.3	172.3	-
value for Bl		(14.6)	(14.6)			(14.6)	(14.6)			(15.0)	(15.0)	
Mean (SD) BL	4365	108.4	108.4	-	1991	108.5	108.5	-	886	108.4	108.4	-
value for Nl/Bl		(40.6)	(40.6)			(39.8)	(39.8)			(40.2)	(40.2)	

Mean (SD) value	3559	115.4	116.9	117.6	1629	117.5	120.8	122	720	116.1	121.7	124.1
at EOT for Normal		(63.0)	(65.6)	(65)		(65.6)	(70.8)	(70)		(61.6)	(70.9)	(70.8)
Mean (SD) value	806	187.5	191.4	-	362	186.6	195.6	-	166	177.1	193.8	-
at EOT for Bl		(97.1)	(97.0)			(99.8)	(100.1)			(97.7)	(101.8)	
Mean (SD) value	4365	128.7	130.7	-	1991	130.1	134.4	-	886	127.5	135.2	-
at EOT for NI/BI		(75.9)	(78.0)			(77.7)	(82.1)			(73.7)	(82.5)	
												_
Mean (SD) change	3559	21.7	23.2	23.9	1629	23.3	26.6	28	720	22.5	28.1	30.5
for NI		(56.9)	(59.4)	(59)		(60.1)	(65.0)	(64)		(56.0)	(64.8)	(64.4)
Mean (SD) change	806	14.5	18.4	-	362	13.8	22.8	-	166	4.8	21.5	-
for Bl		(96.6)	(96.5)			(99.6)	(100.0)			(97.5)	(101.5)	
Mean (SD) change	4365	20.3	22.3	-	1991	21.5	25.9	-	886	19.1	26.9	-
for NI/BI		(66.1)	(67.8)			(69.1)	(72.6)			(66.1)	(73.1)	
Modal (SD) Dose (mg) 378.2 (232.6)					381.0 (237.0)			377.3 (224.4)				
Median Exp (days) 74					153			272				
x 0 1 10		. 11 104	105 110	(: OI: :	10.1							

Information obtained from Sponsor table 184, 185 and 186 in Clinical Study Report

9. Fasting Triglycerides of \geq 50 mg/dL increase outliers

Fasting triglycerides	QTP -Post-baseline		QTP- Po	QTP- Post-baseline		QTP - Post-baseline		
≥ 50 mg/dL increase			at ≥12 w	ks exposure	at ≥24 wk	ks exposure		
Baseline (BL)	n (%)	>50	n (%)	>50	n (%)	>50		
Any Value	5318	1279 (24)	2424	665 (27)	1092	303 (27.7)		
Normal <150	3559	818 (23)	1629	433 (26)	720	204 (28.3)		
Borderline ≥150 to<200	806	215 (26)	362	108 (29)	166	46 (27.7)		
High_>200 to < 500	887	232 (26)	405	118 (29)	188	49 (26.1)		
Very High > 500	66	14 (21)	28	6 (21)	18	4 (22.2)		
								
Mean (SD) BL value	5318	144.3 (103)	2424	144.5 (103)	1092	147.5 (106.0)		
for Any value		(100)		(100)		((((((((((((((((((((
Mean (SD) BL value	3559	93.8 (28)	1629	94.3 (27)	720	93.6 (27.9)		
for Normal value		70.0 (=0)		/ 110 (=1)		(2.00)		
Mean (SD) BL value	806	173 (15)	362	172.8 (15)	166	172.3 (15.0)		
for Borderline value		1,0 (10)		1,210 (10)		()		
Mean (SD) BL value	887	279 (70)	405	281.7 (71)	188	282.5 (71.4)		
for High value	007	277 (70)		2011, (,1)	100	202.5 (71.1)		
Mean (SD) BL value	66	696 (202)	28	714.2 (240)	18	662.2 (134.9)		
for Very high value		050 (202)		711.2 (210)	10	002.2 (13 1.5)		
·			-					
Mean (SD) value at	5318	159 (125)	2424	163.1 (124)	1092	164.5 (127.6)		
EOT for Any value		100 (120)		()		(-2,10)		
Mean (SD) value at	3559	117 (65)	1629	122.1 (70)	720	123.8 (70.0)		
EOT for Normal value		11, (00)		(, *)		1 - 2 1 2 (1 1 1 1)		
Mean (SD) value at	806	191 (98)	362	195.2 (102)	166	193.9 (105.4)		
EOT for BL value		(-)				()		
Mean (SD) value at	887	272 (151)	405	277.6 (160)	188	264.9 (168.2)		
EOT for high value		, (, ,						
Mean (SD) value at	66	526 (443)	28	471.1 (385)	18	475.0 (354.6)		
EOT for Very high		, ,				, ,		
				L.				
Mean (SD) change	5318	15.4 (99)	2424	18.6 (100)	1092	17.1 (106.9)		
for Any value		, ,						
Mean (SD) change	3559	23.9 (59)	1629	27.9 (64)	720	30.2 (63.7)		
for Normal value				` ′		` ′		
Mean (SD) change	806	18.2 (97)	362	22.5 (101)	166	21.6 (105.0)		
for BL value		, ,						
Mean (SD) change	887	-7.5(137)	405	-4.0 (144)	188	-17.7 (155.3)		
for High value] ` ´		` ′		` '		
Mean (SD) change	66	-170(427)	28	-243(347)	18	-187.2 (352)		
for Very high value		\ \ \ \ \		, ,		, ,		
<u> </u>		<u>.</u>			1	1		
Modal (SD) Dose	382.4 (232.2)		384.2.(2	384.2 (236.7)		4.6)		
Median Exp (days)	74)	154	. /		,		
taluii Enp (uuys)	, ,		107		275			

Information obtained from Sponsor table 187, 188 and 189 in Clinical Study Report

10. Fasting Triglycerides of \geq 50 mg/dL increase outliers Over Time

Table 176: Proportion of Patients with treatment emergent shifts of very high fasting triglycerides (All QTP trials)

Fasting triglycerides ≥ 500 Very High	QTP -Po	QTP -Post-baseline		st-baseline ks exposure		QTP - Post-baseline at >24 wks exposure		
Baseline (BL)	n (%)	> 500	n (%)	>500	n (%)	>500		
Very High > 500	5252	92 (1.8)	2396	52 (2.2)	1074	22 (2.0)		
Mean (SD) BL value	5252	137.4 (79.6)	2396	137.8 (79.8)	1074	138.8 (81.3)		
for Very high value								
Mean (SD) value at	5252	152.9 (107.7)	2396	154.8 (112.1)	1074	151.3 (110.8)		
EOT for Very high								
Mean (SD) change	5252	15.5 (83.9)	2396	17.0 (88.5)	1074	12.4 (90.6)		
for Very high value								
Modal (SD) Dose	381.8 (2:	31.9)	383.7 (2	383.7 (236.2)		380.1 (223.5)		
Median Exp (days)	74		154		276	276		

Information obtained from Sponsor table 190, 191 and 192 in Clinical Study Report

7.4 Antipsychotic-Naïve Subjects in Placebo-Controlled Trials

7.4.1 Mean Change Analyses

1. Mean lipid Change (in mg/dl) from baseline to endpoint

The quetiapine-treated subjects (N = 1784) with a mean modal daily dose of 180 mg, had a mean total cholesterol change of 0.3 compared to -3.2 in placebo-treated subjects (N = 963) with a median exposure of 56 days. The fasting triglyceride mean change was 11 in QTP treated (modal daily dose of 183 mg) compared to -2.6 in placebo treated subjects with a median exposure of 56 days. The fasting LDL mean change was -0.1 in QTP treated subjects compared to -2.1 in placebo treated subjects. The fasting HDL mean change was -1.8 in QTP treated subjects compared to -0.9 in placebo treated subjects.

Table 177: Lipids, change from baseline (BL) to end of treatment (EOT) (naïve subjects, placebo-controlled trials)

Table 177: Lipius, change from baseline (BL) to end of tre	QTP	Placebo
N =	1784	963
Mean (SD) Total cholesterol (mg/dL) at BL	192.7 (41.5)	192.4 (40.1)
Mean (SD) Total cholesterol (mg/dL) at EOT	193.0 (42.4)	189.3 (40.0)
Mean (SD) Total cholesterol (mg/dL) Change	0.3 (26.2)	-3.2 (25.5)
p-value	<0.001	-
Modal (SD) Dose (mg)	180.4 (118.1)	0
Median Exposure (days)	56	56
N =	878	476
Mean (SD) LDL fasting (mg/dL) at BL	112.6 (34.6)	112.4 (34.0)
Mean (SD) LDL fasting (mg/dL) at EOT	112.5 (35.4)	110.3 (33.3)
Mean (SD) LDL fasting (mg/dL) Change	-0.1 (23.7)	-2.1 (23.2)
p-value	0.119	-
Modal (SD) Dose (mg)	182.9 (123.8)	0
Median Exposure (days)	56	56
	·	
N =	1784	963
Mean (SD) HDL (mg/dL) at BL	54.7 (15.7)	53.6 (14.3)
Mean (SD) HDL (mg/dL) at EOT	52.8 (15.9)	52.7 (14.8)
Mean (SD) HDL (mg/dL) Change	-1.8 (9.3)	-0.9 (8.2)
p-value	0.018	-
Modal (SD) Dose (mg)	180.4 (118.1)	0

Median Exposure (days)	56	56
	•	
N =	878	478
Mean (SD) Triglycerides, fasting (mg/dL) at BL	132.3 (92.9)	125.7 (75.9)
Mean (SD) Triglycerides, fasting (mg/dL)at EOT	143.1 (121.3)	123.0 (74.9)
Mean (SD) Triglycerides, fasting (mg/dL) Change	10.8 (86.8)	-2.6 (56.2)
p-value	0.004	-
Modal (SD) Dose (mg)	182.9 (123.8)	0
Median Exposure (days)	56	56
	·	·
N =	197	104
Mean (SD) Triglycerides non-fasting (mg/dL) at BL	130.8 (86.8)	126.9 (70.7)
Mean (SD) Triglycerides non-fasting (mg/dL) at EOT	134.5 (86.4)	128.1 (79.6)
Mean (SD) Triglycerides non-fasting (mg/dL) Change	3.7 (64.4)	1.3 (61.0)
p-value	0.688	-
Modal (SD) Dose (mg)	169.3 (91.0)	0
Median Exposure (days)	56	57

Information obtained from Sponsor table 225 in Clinical Study Report

7.4.2 Categorical Analyses

1. Total Cholesterol outliers

The treatment emergent shifts

Table 178: Proportion of Patients with treatment emergent shifts of total cholesterol (naïve subjects, placebo-controlled trials)

QTP			Placebo			p-value			
Post-ba	ıseline		Post-base	line					
n (%)	<u>≥</u> 240	≤200	n (%)	<u>≥</u> 240	≤200	≥240	≤200		
1042	23 (2.2)	172(17)	568	8 (1.4)	93 (16)	0.343	1.000		
460	71 (15.4)	-	258	31 (12.0)	-	0.222	-		
1502	94 (6.3)	-	826	39 (4.7)	-	0.136	-		
		•		•					
1079	166.6	166.6	581	167.1	167.1	-			
	(23.3)	(23.3)		(22.3)	(22.3)				
470	216.2	-	265	215.9	-	-			
	(11.8)			(12.2)					
1502	182.6	-	826	183.0	-	-			
	(30.3)			(29.9)					
1079	172.0	172.0	581	169.4	169.4	-			
	(30.3)	(30.4)		(29.6)	(29.6)				
470	211.4	-	265	209.2	-	-			
	(28.3)			(27.3)					
1502	184.8	-	826	182.7	-	-			
	(34.6)			(34.2)					
1079	5.4	5.4 (22.9)	581	2.3	2.3 (20.7)	-			
	(22.9)			(20.7)					
470	-4.7	-	265	-6.7 (25.8)	-	-			
	(26.5)								
1502	2.2	-	826	-0.3 (22.9)	-	-			
	(24.5)								
182.6 (120.8)			-						
56			56						
	Post-ba n (%) 1042 460 1502 1079 470 1502 1079 470 1502 1079 470 1502	Post-baseline n (%) ≥240 1042 23 (2.2) 460 71 (15.4) 1502 94 (6.3) 1079 166.6 (23.3) 470 216.2 (11.8) 1502 182.6 (30.3) 470 211.4 (28.3) 1502 184.8 (34.6) 1079 5.4 (22.9) 470 -4.7 (26.5) 1502 2.2 (24.5) 182.6 (120.8)	Post-baseline n (%) ≥240 ≤200 1042 23 (2.2) 172(17) 460 71 (15.4) - 1502 94 (6.3) - 1079 166.6 (23.3) (23.3) 470 216.2 - (11.8) - (30.3) - 1502 182.6 - - (30.3) (30.4) - 470 211.4 - - (28.3) - - - 1502 184.8 - - (34.6) - - - 1502 2.9 - - 470 -4.7 - - (26.5) - - - 1502 2.2 - - (24.5) - - -	$\begin{array}{ c c c c c }\hline \text{Post-baseline} & \text{Post-base} \\\hline & n \ (\%) & \geq 240 & \leq 200 & n \ (\%) \\\hline & 1042 & 23 \ (2.2) & 172 \ (17) & 568 \\\hline & 460 & 71 \ (15.4) & - & 258 \\\hline & 1502 & 94 \ (6.3) & - & 826 \\\hline \hline & 1079 & 166.6 & 166.6 & 581 \\\hline & (23.3) & (23.3) & 265 \\\hline & (11.8) & & & \\\hline & 1502 & 182.6 & - & 826 \\\hline \hline & (30.3) & & & & \\\hline & 1079 & 172.0 & 172.0 & 581 \\\hline & (30.3) & & & & \\\hline & 1502 & 182.6 & - & 265 \\\hline & (30.3) & & & & \\\hline & 1502 & 184.8 & - & 826 \\\hline & 1079 & 5.4 & & 5.4 \ (22.9) & 581 \\\hline & 1079 & 5.4 & & & \\\hline & (22.9) & & & & \\\hline & 16079 & -4.7 & - & 265 \\\hline & 1502 & 2.2 & - & 826 \\\hline & 182.6 \ (120.8) & - & & \\\hline \end{array}$	$\begin{array}{ c c c c c }\hline \text{Post-baseline} & \text{Post-baseline} \\ \hline n (\%) & \geq 240 & \leq 200 & n (\%) & \geq 240 \\ \hline 1042 & 23 (2.2) & 172(17) & 568 & 8 (1.4) \\ \hline 460 & 71 (15.4) & - & 258 & 31 (12.0) \\ \hline 1502 & 94 (6.3) & - & 826 & 39 (4.7) \\ \hline \hline 1079 & 166.6 & 166.6 & 581 & 167.1 & (22.3) & (23.3) & (22.3) \\ \hline 470 & 216.2 & - & 265 & 215.9 & (12.2) & (12.2) \\ \hline 1502 & 182.6 & - & 826 & 183.0 & (29.9) & (29.9) \\ \hline \hline 1079 & 172.0 & 172.0 & 581 & 169.4 & (29.6) & (29.9) & (27.3) & (28.3) & (27$	$\begin{array}{ c c c c c c }\hline Post-baseline & Post-baseline \\\hline n (\%) & \geq 240 & \leq 200 & n (\%) & \geq 240 & \leq 200 \\\hline 1042 & 23 (2.2) & 172(17) & 568 & 8 (1.4) & 93 (16) \\\hline 460 & 71 (15.4) & - & 258 & 31 (12.0) & - \\\hline 1502 & 94 (6.3) & - & 826 & 39 (4.7) & - \\\hline \hline 1079 & 166.6 & 166.6 & 581 & 167.1 & 167.1 & (23.3) & (22.3) & (22.3) & (22.3) \\\hline 470 & 216.2 & - & 265 & 215.9 & - & (11.8) & (12.2) & - \\\hline 1502 & 182.6 & - & 826 & 183.0 & - & (29.9) & - & (29.9) \\\hline \hline 1079 & 172.0 & 172.0 & 581 & 169.4 & 169.4 & (29.6) & (29.6) & (29.6) & (29.6) & (29.6) & (29.6) & (29.6) & (29.6) & (20.7) & - & (26.5) & -6.7 (25.8) & - & (20.7) & - & (26.5) & -6.7 (25.8) & - & (24.5) $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		

Information obtained from Sponsor table 226 in Clinical Study Report

2. Total Cholesterol outliers

Table 179: Proportion of Patients with treatment emergent shifts of total cholesterol (naïve subjects, placebo-controlled trials)

Total cholesterol (mg/dL)	QTP - P	ost-baseline	Placebo	-Post-baseline	p-value	
(fasting and non-fasting) \geq 40 mg/dl increase						
Baseline (BL)	n (%)	>40	n (%)	>40	>40	
Any value	1734	99 (5.7)	942	41 (4.4)	0.146	
Normal <200	1042	68 (6.5)	568	27 (4.8)	0.184	
Borderline ≥200 to <240	460	19 (4.1)	258	12 (4.7)	0.849	
High_240	232	12 (5.2)	116	2 (1.7)	0.154	
Mean (SD) BL value for Any value	1784	192.7 (41.5)	963	192.4 (40.1)		
Mean (SD) BL value for Normal	1079	166.6 (23.3)	581	167.1 (22.3)	<u> </u>	
Mean (SD) BL value for Borderline	470	\ /			-	
Mean (SD) BL value for High	232	216.2 (11.8) 265.9 (27.8)	265 116	215.9 (12.2) 265.3 (27.8)	-	
Tream (SD) BE value for ringh	232	203.5 (27.0)	110	203.3 (27.0)		
Mean (SD) value at EOT for Any value	1784	193.0 (42.4)	963	189.4 (40.1)	-	
Mean (SD) value at EOT for Normal	1079	172.0 (30.3)	581	169.4 (29.6)	-	
Mean (SD) value at EOT for Borderline	470	211.3 (28.2)	265	209.2 (27.3)	-	
Mean (SD) value at EOT for High	232	253.0 (40.1)	116	244.5 (36.4)	-	
Mean (SD) change for Any value	1784	0.2 (26.2)	963	-3.0 (25.7)		
<u> </u>		0.3 (26.2)			-	
Mean (SD) change for Normal	1079	5.4 (22.9)	581	2.3 (20.7)	-	
Mean (SD) change for Borderline	470	-4.9 (26.6)	265	-6.7 (25.8)	-	
Mean (SD) change for High	232	-12.8 (32.7)	116	-20.7 (36.3)	-	
Modal (SD) Dose (mg)	180.4 (1	18.1)	-			
Median Exposure (days)	56		56			

Information obtained from Sponsor table 227 in Clinical Study Report

3. Total HDL outliers

Table 180: Proportion of Patients with treatment emergent shifts of total HDL (naïve subjects, placebo-controlled trials)

Total HDL (mg/dL) (fasting and non-fasting)	QTP - Post-baseline		Placebo	- Post-baseline	p-value
Baseline (BL)	n (%)	<40	n (%)	<40	<40
Normal ≥ 40	1519	158 (10.4)	810	66 (8.1)	0.089
Mean (SD) BL value for Normal	1519	58.2 (14.3)	810	57.1 (12.7)	-
Mean (SD) EOT value for Normal	1519	55.8 (15.1)	810	55.8 (13.9)	-
Mean (SD) Change value for Normal	1519	-2.4 (9.6)	810	-1.3 (8.6)	-
Modal (SD) Dose (mg)	179.1 (117.5)		-		
Median Exposure (days)	56		56		
* 0 1 1 10 0					

Information obtained from Sponsor table 228 in Clinical Study Report

4. Total $HDL \ge 20 \text{ mg/dl decrease outliers}$

Table 181:Proportion of Patients with treatment emergent shifts of total HDL \geq 20 mg/dL decrease (naïve subjects, placebocontrolled trials)

Total HDL (mg/dL)≥ 20 mg/dL decrease	QTP - Post-baseline		Placebo - Post-baseline		p-value
Baseline (BL)	n (%)	>20 mg/dL	n (%)	>20 mg/dL	>20
Any value	1784	51 (2.9)	963	17 (1.8)	0.094
Normal >40	1519	50 (3.3)	810	17 (2.1)	0.118
Low ≤ 40	265	1 (0.4)	153	0	1.000
Mean (SD) BL value for Any	1784	54.7 (15.7)	963	53.6 (14.3)	=
Mean (SD) BL value for Normal	1519	58.2 (14.3)	810	57.1 (12.7)	-
Mean (SD) BL value for low	265	34.7 (3.7)	153	34.9 (3.7)	-
Mean (SD) value at EOT for Any	1784	53 (15.9)	963	52.7 (14.8)	
Mean (SD) value at EOT for Normal	1519	55.8 (15.1)	810	55.8 (13.9)	-

Mean (SD) value at EOT for Low	265	36 (7.6)	153	36.2 (5.5)	-	
					<u>.</u>	
Mean (SD) change for Any	1784	-1.8(9.3)	963	-0.9 (8.2)	-	
Mean (SD) change for Normal	1519	-2.4(9.6)	810	-1.3 (8.6)	-	
Mean (SD) change for Low	265	1.2 (7.0)	153	1.3 (4.7)	-	
Modal (SD) Dose (mg)	180.4 (1	18.1)		-		
Median Exposure (days)	56			56		

Information obtained from Sponsor table 229 in Clinical Study Report

5. Total fasting LDL outliers

Table 182: Proportion of Patients with treatment emergent shifts of fasting LDL (naïve subjects, placebo-controlled trials)

Fasting LDL(mg/dL)	QTP - Post-baseline				o - Post-baselir	ne	p-value					
Baseline (BL)	n(%)	>160/>130	>100/<130	n(%)	>160/>130	>100/<130	>160/>130	>100/<130				
Normal	310	4 (1.3)	80 (26)	178	0	37 (21)	0.302	0.227				
<100												
Borderline	469	29 (6.2)	-	248	13 (5.2)	-	0.739	-				
≥100 to <160												
Normal/Borderline	779	33 (4.2)	-	426	13 (3.1)	-	0.348	-				
<160												
				_			_					
Mean (SD) BL	334	79.8 (15.2)	79.8 (15.2)	188	81.4 (13.9)	81.4 (13.9)	-					
for Normal												
Mean (SD) BL	473	125.1	-	250	124.5	-	-					
for Borderline		(16.2)			(15.4)							
Mean (SD) BL	779	107.2	-	426	106.7	-	-					
Normal/Borderline		(27.1)			(25.8)							
Mean (SD) at EOT -	334	87.0 (26.1)	87.0 (26.1)	188	84.5 (20.7)	84.5 (20.7)] -					
Normal												
Mean (SD) at EOT -	473	122.2	-	250	122.1	-	-					
Borderline		(24.5)			(24.4)							
Mean (SD) at EOT	779	108.4	-	426	106.8	-	-					
N/Borderline		(30.5)			(29.2)							
	1	_			,							
Mean (SD) change	334	7.2 (22.4)	7.2 (22.4)	188	3.1 (15.9)	3.1 (15.9)	-					
for Normal												
Mean (SD) change	473	-2.9 (21.8)	-	250	-2.4 (22.9)	-	-					
for Borderline		1			0.4.40.0							
Mean (SD) change	779	1.2 (22.6)	-	426	0.1 (20.4)	-	-					
for NI/Borderline												
16 11 (GD) D												
Modal (SD) Dose	G (-							
Median Exp(days)	Median Exp(days) 56					56						
Information obtained fro	C	4 11 220	CI. I LO. 1 F	Donort								

Information obtained from Sponsor table 230 in Clinical Study Report

6. Total fasting LDL > 30 mg/dL increase outliers

The treatment emergent shifts of Total fasting LDL \geq 30 mg/dL increase showed a mean change of 7.2 in QTP treated subjects compared to 3.1 seen in placebo treated subjects. See table 194 below for QTP dose (in mg) and median exposure days.

Table 183: Proportion of Patients with treatment emergent shifts fasting $LDL \ge 30$ mg/dL increase (naïve subjects, placebo-controlled trials)

fasting LDL ≥ 30 mg/dL increase	QTP - Po	ost-baseline	Placebo -	- Post-baseline	p-value
Baseline (BL)	n (%)	≥30 mg/dL increase	n (%)	≥30 mg/dL increase	<u>≥</u> 30
Any Value	848	67 (7.9)	463	31 (6.7)	0.445
Normal <100	310	30 (9.7)	178	10 (5.6)	0.126
Borderline ≥100 to <160	469	32 (6.8)	248	20 (8.1)	0.548
Normal/Borderline <160	69	5 (7.2)	37	1 (2.7)	0.662

Mean (SD) BL value	878	112.6 (34.6)	476	112.4 (34.0)	-			
for Any value		, , ,						
Mean (SD) BL value	334	79.8 (15.2)	188	81.4 (13.9)	-			
for Normal value								
Mean (SD) BL value	473	125.1 (16.2)	250	124.5 (15.4)	-			
for Borderline value								
Mean (SD) BL value	69	184.4 (27.5)	37	187.2 (28.6)	-			
for NL/BL value								
Mean (SD) value at EOT	878	112.5 (35.4)	476	110.3 (33.3)	-			
for Any value								
Mean (SD) value at EOT	334	87.0 (26.1)	188	84.5 (20.7)	-			
for Normal value								
Mean (SD) value at EOT	473	122.2 (24.5)	250	122.1 (24.4)	-			
for Borderline value								
Mean (SD) value at EOT	69	168.5 (39.6)	37	161.1 (34.3)	-			
for NL/BL value								
Mean (SD) change	878	-0.1 (23.7)	476	-2.1 (23.2)	-			
for Any value								
Mean (SD) change	334	7.2 (22.4)	188	3.1 (15.9)	-			
for Normal value								
Mean (SD) change	473	-2.9 (21.8)	250	-2.4 (22.9)	-			
for Borderline value								
Mean (SD) change	69	-15.9 (31.0)	37	-26.1 (37.7)	-			
for NL/BL value								
Modal (SD) Dose (mg)	182.9 ((123.8)	-					
Median Exposure (days)	56		56					
0 1 10 0		221		•	·			

Information obtained from Sponsor table 231 in Clinical Study Report

7. Fasting Triglycerides outliers

Table 184: Proportion of Patients with treatment emergent shifts of fasting triglycerides (naïve subjects, placebo-controlled trials)

Triglycerides, Fasting (mg/dL)	QTP -Post-baseline				Placebo- Post-baseline				P-value			
Baseline (BL)	n(%)	>500	>200	>150	n(%)	>500	>200	>150	>500	>200	>150	
Normal	625	0	46 (7.4)	107	354	0	13 (3.7)	42		0.025	0.033	
<150				(17.1)				(11.9)				
Borderline	120	0	34 (28.3)	-	60	0	10 (16.7)	-	-	0.100	-	
≥150 to <200												
Normal/Borderline	745	0	80 (10.7)	-	414	0	23 (5.6)	-	-	0.003	-	
<200												
Mean (SD) BL	625	89.7	89.7	89.7	354	89.8	89.8	89.8	-	-	-	
value for Normal		(30.1)	(30.1)	(30.1)		(29.8)	(29.8)	(29.8)				
Mean (SD) BL	120	172.2	172.2	-	60	173.3	173.3	-	=.	-	-	
value for Bl		(13.9)	(13.9)			(14.1)	(14.1)					
Mean (SD) BL	745	103.0	103.0	-	414	101.9	101.9	-	-	-	-	
value for NI/BI		(41.4)	(41.4)			(40.7)	(40.7)					
	•		•	•	•				•			
Mean (SD) value	625	105.8	105.8	105.8	354	97.4	97.4	97.4	-	-	-	
at EOT for NL		(52.9)	(52.9)	(52.9)		(45.9)	(45.9)	(45.9)				
Mean (SD) value	120	174.9	174.9	-	60	160.0	160.0	-	-	-	-	
at EOT for Bl		(74.2)	(74.2)			(56.2)	(56.2)					
Mean (SD) value	745	116.9	116.9	-	414	106.5	106.5	-	-	-	-	
at EOT for NI/BI		(62.3)	(62.3)			(52.4)	(52.4)					
Mean (SD) change	625	16.1	16.1	16.1	354	7.5	7.5	7.5	-	-	-	
for Nl		(45.1)	(45.1)	(45.1)		(38.0)	(38.0)	(38.0)				
Mean (SD) change	120	2.7	2.7	-	60	-13.3	-13.3	-	-	-	-	
for Bl		(75.1)	(75.1)			(58.9)	(58.9)					
Mean (SD) change	745	13.9	13.9	-	414	4.5	4.5	-	-	-	-	
for Nl/Bl		(51.3)	(51.3)			(42.2)	(42.2)					
Modal (SD) Dose	()					0				-		
Median Exp (days) 56					56				-			

Information obtained from Sponsor table 232 in Clinical Study Report

8. Fasting Triglycerides \geq 50 mg/dL increase outliers

Table 185: Proportion of Patients , treatment emergent shifts triglycerides \geq 50 mg/dL increase (naïve subjects, placebo-controlled trials)

Fasting triglycerides ≥ 50 mg/dL increase	QTP -Po	st-baseline	Placebo	- Post-baseline	p-value
Baseline (BL)	n (%)	>50	n (%)	>50	>50
Any Value	878	162 (18)	478	57 (11.9)	0.002
Normal <150	625	101(16.2)	354	41 (11.6)	0.059
Borderline ≥150 to<200	120	28 (23.3)	60	8 (13.3)	0.166
High > 200 to < 500	127	32 (25.2)	63	8 (12.7)	0.058
Very High ≥ 500	6	1 (16.7)	1	0	1.000
				•	·
Mean (SD) BL Any	878	132 (93)	478	125.7 (76)	-
Mean (SD) BL Normal	625	89.7 (30)	354	89.8 (29.8)	-
Mean (SD) BL Borderline	120	172 (14)	60	173.3 (14)	-
Mean (SD) BL High	127	274 (67)	63	275.0 (64)	-
Mean (SD) BL Very high	6	767 (137)	1	541	-
Mean (SD) EOT Any	878	143 (121)	478	124.2 (79)	-
Mean (SD) EOT NI	625	106(52.9)	354	97.4 (45.9)	-
Mean (SD) EOT BL	120	175 (74)	60	160.0 (56)	-
Mean (SD) EOT high	127	264 (126)	63	235.3 (114)	-
Mean (SD) EOT Very high	6	832 (746)	1	487.3	-
, , , , ,		•		•	
Mean (SD) change Any	878	10.8 (89)	478	-1.4 (56.1)	-
Mean (SD) change NI	625	16.1 (45)	354	7.5 (38.0)	-
Mean (SD) change BL	120	2.7 (75)	60	-13.3 (59)	-
Mean (SD) change High	127	-10 (116)	63	-39.7 (103)	-
Mean change Very high	6	65 (758)	1	-54.0	-
Modal (SD) Dose	182.9 (1	23.8)	0		-
Median Exp (days)	-		-		

Information obtained from Sponsor table 233 in Clinical Study Report

9. Fasting Triglycerides "Very high" outliers

Table 186: Proportion of Patients with treatment emergent shifts of very high fasting triglycerides (naïve subjects, placebo-controlled trials)

Fasting triglycerides ≥ Very High	QTP -Post-baseline		Placebo -	p-value	
Baseline (BL)	n (%)	≥ 500	n (%)	<u>≥</u> 500	<u>≥</u> 500
Very High < 500	872	8 (0.9)	477	3 (0.6)	0.756
Mean (SD) BL value for Very high value	872	128(76)	477	124 (73)	-
Mean (SD) value at EOT for Very high	872	138(91)	477	123 (77)	-
Mean (SD) change for Very high value	872	10 (65)	477	-1.3 (56)	-
Modal (SD) Dose (mg)	182.9 (124.0	0)	-		-
Median Exp (days)	56		56	-	
T. C				· ·	· ·

Information obtained from Sponsor table 234 in Clinical Study Report

7.5 Antipsychotic-Naïve Subjects in Comparator-Controlled Trials

7.5.1 Mean Change Analyses

1. Mean lipid change (in mg/dl) from baseline to endpoint

Please see table 198 below for comparison of mean lipid change of total cholesterol, fasting LDL, HDL, and fasting triglycerides from baseline to endpoint of quetiapine compared with olanzapine and risperidone.

Table 187: Lipids, change from baseline (BL) to end of treatment (EOT) (naïve subjects, comparator-controlled trials)

Measurements in mg/dl	QTP	OLZ	QTP	RIS
N =	234	245	435	450
Mean (SD) TC at BL	187.3 (46.2)	185 (43)	191(46)	193(44
Mean (SD) TC at EOT	195.4 (48.1)	201 (50)	198(46)	191(41
Mean (SD) TC Change	8.0 (38.0)	15.9 (41)	7 (38)	-2 (36)
p-value	0.029	-	< 0.001	-
Modal (SD) Dose (mg)	592.7 (175)	14.5 (4.1)	595(193	5
Median Exp (days)	168	168	58	57
N =	22	31	22	23
Mean (SD) F-LDL at BL	109.2 (37.3)	108.9 (28)	109 (37)	108(31
Mean (SD) F-LDL at EOT	114.1 (41.0)	115 33)	114 (41)	109(41
Mean (SD) F-LDL Change	4.9 (36.3)	6.7 (29.8)	5 (36)	2 (28)
p-value	0.841	-	0.725	-
Modal (SD) Dose (mg)	627 (161)	13.1 (4.4)	627 (161)	3(1)
Median Exp (days)	325	253	352	364
	•	•	•	•
N =	217	236	417	437
Mean (SD) HDL at BL	45.5 (13.3)	44.7 (11)	47 (14	47(14)
Mean (SD) HDL at EOT	44.5 (11.7)	42.5 (12)	47 (13)	47(13)
Mean (SD) HDL Change	-1.0 (10.1)	-2.1 (11)	-0.9	0
p-value	0.206	-	0.246	
Modal (SD) Dose (mg)	591 (177)	591 (177)	595(195	5
Median Exp (days)	168	168	57	57
	•	•	•	•
N =	23	32	23	23
Mean (SD) F-Trig at BL	122.4 (62.2)	96.5 (53)	122 (62)	110(73
Mean (SD) F-Trig at EOT	141.7 (82.0)	137.4 (90)	142(82)	111(66
Mean (SD) F-Trig Change	19.3 (58.6)	40.9 (87)	19 (59)	0.8(59)
p-value	0.304	-	0.293	-
Modal (SD) Dose (mg)	613.0 (171)	13.3 (4.5)	613	2.6
Median Exp (days)	350	348	350	364
		II.	- II	I.
N =	42	40	42	45
Mean (SD) NF - Trig at BL	147.8 (102)	121.7 (76)	148 (102)	159 (165)
Mean (SD) NF - Trig at EOT	173.9 (142)	184 (112)	174(142)	150 (97)
Mean (SD) NF -Trig Change	\ /	62.5 (86)	26 (150)	-8.5(185)
	26.1 (150.2)	02.3 (80)	20 (130)	
p-value	26.1 (150.2) 0.186	- (80)	0.342	-
	\ /	12.2 (5.0)	. ,	` ′

Information obtained from Sponsor table 235 and 265 in Clinical Study Report

TC - Total cholesterol, BL - Baseline, EOT - End of treatment, Exp - Exposure, F-LDL - Fasting LDL, F-Trig - Fasting triglycerides, NF - Trig - Non fasting triglycerides, OLZ - olanzapine, RIS - risperidone, QTP - quetiapine

7.5.2 Categorical Analyses

In analyses of treatment-emergent significant changes (fasting baseline and post-baseline lipid measurements) for active-comparator controlled trials with olanzapine or risperidone controlled trials, no significant differences were observed in these outlier categories between the active-comparator and QTP.

7.6 Antipsychotic-Naïve Subjects in Controlled and Uncontrolled Trials

7.6.1 Mean Change Analyses

1. Mean lipid Change (in mg/dl) from baseline to endpoint

The quetiapine-treated antipsychotic naïve subjects (N = 3454) with a mean modal daily dose of 181 mg, had a mean total cholesterol change a decrease of -1.3 mg/dL with a median exposure of 63 days. The fasting triglyceride mean change was an increase of 12 mg/dL in QTP treated (modal daily dose of 183 mg) with a median exposure of 64 days. The fasting LDL mean change was -1.3 and the fasting HDL mean change was -2.6 in these QTP treated patients.

Table 188:Lipids, change from baseline (BL) to end of treatment (EOT) (naïve subjects, all QTP trials)

	QTP
N =	3454
Mean (SD) Total cholesterol (mg/dL) at BL	195.5 (42.4)
Mean (SD) Total cholesterol (mg/dL) at EOT	194.2 (42.0)
Mean (SD) Total cholesterol (mg/dL) Change	-1.3 (28.6)
p-value	-
Modal (SD) Dose (mg)	180.8 (118.2)
Median Exposure (days)	63
N =	1848
Mean (SD) LDL fasting (mg/dL) at BL	114.5 (35.1)
Mean (SD) LDL fasting (mg/dL) at EOT	113.2 (35.3)
Mean (SD) LDL fasting (mg/dL) Change	-1.3 (24.9)
p-value	-
Modal (SD) Dose (mg)	183.1 (116.2)
Median Exposure (days)	64
N =	3453
Mean (SD) HDL (mg/dL) at BL	55.0 (15.6)
Mean (SD) HDL (mg/dL) at EOT	52.5 (15.7)
Mean (SD) HDL (mg/dL) Change	-2.6 (9.5)
p-value	-
Modal (SD) Dose (mg)	180.9 (118.2)
Median Exposure (days)	63
N =	1851
Mean (SD) Triglycerides, fasting (mg/dL) at BL	137.3 (100.7)
Mean (SD) Triglycerides, fasting (mg/dL)at EOT	148.8 (119.1)
Mean (SD) Triglycerides, fasting (mg/dL) Change	11.5 (85.8)
p-value	-
Modal (SD) Dose (mg)	183.0 (116.2)
Median Exposure (days)	64

Information obtained from Sponsor table 295 in Clinical Study Report

2. Mean lipid Change (in mg/dl) from baseline to endpoint by \geq 12 and \geq 24 weeks exposure

The quetiapine-treated subjects (N = 1340) at a mean modal daily dose of 180 mg, had a mean total cholesterol change of -3.5 at \geq 12 weeks exposure. The QTP treated subjects (N=513) had a mean total cholesterol change of -4.1 at a modal daily dose of 199 mg at \geq 24 weeks exposure. The fasting triglyceride mean change was 11.3 in QTP treated (mean modal daily dose of 180 mg) at \geq 12 weeks exposure. The QTP treated subjects (N=513) had a mean total cholesterol

change of 1.1 at a mean modal daily dose of 193 mg at \geq 24 weeks exposure. Please see table 268 for LDL and HDL mean changes.

<u>Table 189: Lipids, change from baseline (BL) to end of treatment (EOT), exposure \geq 12 and \geq 24 weeks (naïve subjects, all QTP trials)</u>

At exposure \geq 12 and \geq 24 weeks	QTP exposure > 12 weeks	QTP exposure > 24 weeks
N =	1340	513
Mean (SD) Total cholesterol (mg/dL) at BL	197.7 (42.9)	200.5 (44.7)
Mean (SD) Total cholesterol (mg/dL) at EOT	194.2 (41.2)	196.4 (40.9)
Mean (SD) Total cholesterol (mg/dL) Change	-3.5 (31.4)	-4.1 (33.1)
p-value	-	-
Modal (SD) Dose (mg)	180.3 (119.1)	199.0 (150.2)
Median Exposure (days)	141	270
N =	814	336
Mean (SD) LDL fasting (mg/dL) at BL	115.6 (35.0)	116.8 (37.1)
Mean (SD) LDL fasting (mg/dL) at EOT	112.7 (34.7)	114.1 (36.8)
Mean (SD) LDL fasting (mg/dL) Change	-3.0 (26.0)	-2.8 (27.1)
p-value	-	-
Modal (SD) Dose (mg)	179.9 (108.9)	193.0 (126.2)
Median Exposure (days)	143	273
N =	1340	513
Mean (SD) HDL (mg/dL) at BL	55.4 (15.6)	55.8 (15.5)
Mean (SD) HDL (mg/dL) at EOT	51.8 (15.6)	51.7 (15.0)
Mean (SD) HDL (mg/dL) Change	-3.6 (10.1)	-4.1 (10.6)
p-value	-	-
Modal (SD) Dose (mg)	180.3 (119.1)	199.0 (150.2)
Median Exposure (days)	141	270
N =	816	336
Mean (SD) Triglycerides, fasting (mg/dL) at BL	141.5 (108.5)	143.9 (104.8)
Mean (SD) Triglycerides, fasting (mg/dL)at EOT	152.8 (118.9)	145.1 (97.7)
Mean (SD) Triglycerides, fasting (mg/dL) Change	11.3 (81.9)	1.1 (74.8)
p-value		-
Modal (SD) Dose (mg)	179.7 (108.9)	193.0 (126.2)
Median Exposure (days)	143	273

Information obtained from Sponsor table 296 and 297 in Clinical Study Report

7.6.2 Categorical Analyses

1. Total Cholesterol outliers

Table 190: Proportion of Patients with treatment emergent shifts of total cholesterol (naïve subjects, All QTP trials)

QTP - Post-baseline				
n (%)	≥240/≥200	$\geq 200/\geq 170 \text{ to } \leq 200$		
1956	61 (3.1)	366 (18.7)		
949	164 (17.3)	-		
2905	225 (7.7)	-		
1993	167.2 (22.8)	167.2 (22.8)		
960	216.9 (11.5)	-		
2905	183.9 (30.4)	-		
1993	173.0 (31.4)	173.4 (31.6)		
960	212.2 (28.8)	-		
2905	186.2 (35.6)	-		
1993	5.7 (25.4)	6.1 (25.5)		
960	-4.7 (27.2)	-		
2905	2.3 (26.5)	-		
	n (%) 1956 949 2905 1993 960 2905 1993 960 2905	$\begin{array}{c cccc} n \ (\%) & \geq 240/\geq 200 \\ \hline 1956 & 61 \ (3.1) \\ \hline 949 & 164 \ (17.3) \\ \hline 2905 & 225 \ (7.7) \\ \hline \\ \hline 1993 & 167.2 \ (22.8) \\ \hline 960 & 216.9 \ (11.5) \\ \hline 2905 & 183.9 \ (30.4) \\ \hline \\ \hline 1993 & 173.0 \ (31.4) \\ \hline 960 & 212.2 \ (28.8) \\ \hline 2905 & 186.2 \ (35.6) \\ \hline \\ \hline \\ 1993 & 5.7 \ (25.4) \\ \hline 960 & -4.7 \ (27.2) \\ \hline \end{array}$		

Modal (SD) Dose (mg)	182.7 (120.0)
Median Exposure (days)	63

Information obtained from Sponsor table 298 in Clinical Study Report

2. Total Cholesterol outliers

Table 191: Proportion of Patients with treatment emergent shifts of total cholesterol by time (naïve subjects, all QTP trials)

Total cholesterol (mg/dL)	QTP				QTP			
(fasting and non-fasting)	Post-bas	st-baseline exposure ≥12 wks			Post-baseline exposure ≥24 wks			
Baseline (BL)	n (%)	≥240/≥200	$\geq 200 \geq 170 \text{ to } \leq 200$	n (%)	≥240/≥200	≥200/≥ 170 to ≤200		
Normal <200	747	34 (4.6)	165 (22.1)	277	20 (7)	73 (26.4)		
Borderline ≥200 to <240	390	75 (19.2)	=	155	32 (21)	-		
Normal/Borderline <240	1137	109 (9.6)	-	432	52 (12)	-		
Mean (SD) BL value for Normal	747	168 (22)	168.0 (22.1)	277	170(21)	169.6 (20.7)		
Mean (SD) BL value for Bl	390	218 (11)	-	155	218(12)	-		
Mean (SD) BL value for Normal/Bl	1137	185 (30)	-	432	187(29)	-		
	•	•		•				
Mean (SD) value at EOT for Normal	747	174 (33)	175.1 (33.7)	277	178(34)	180(34)		
Mean (SD) value at EOT for Bl	390	212 (29)	=	155	212(30)	-		
Mean (SD) value at EOT for NL/Bl	1137	187 (37)	=	432	190(36)	-		
Mean (SD) change for Normal	747	6.1 (29)	7.1 (29.1)	277	8 (32)	10.6 (31.8)		
Mean (SD) change for Bl	390	-6.0 (28)	-	155	-6 (29)	-		
Mean (SD) change for Normal/Bl	1137	1.9 (29)	-	432	3.1(31)	-		
			•					
Modal (SD) Dose (mg)	182.4 (1	20.7)		203.5 (153.8)				
Median Exposure (days)	140	,		269				

Information obtained from Sponsor table 299 and 300 in Clinical Study Report,

3. Total Cholesterol \geq 40 mg/dl increase outliers

Table 192:Proportion of Patient, treatment emergent shifts of total cholesterol \geq 40 mg/dl increase and by time (naïve subjects, all QTP trials)

m i i i i i i i i i i i i i i i i i i i	0.000		o.mn n		0.000					
Total cholesterol (mg/dL)	QTP - I	QTP - Post-baseline		ost-baseline		QTP - Post-baseline				
(fasting and non-fasting)			at \geq 12 wks exposure		at≥24 w	ks exposure				
Baseline (BL)	n (%)	<u>≥</u> 40	n (%)	<u>≥</u> 40	n (%)	<u>≥</u> 40				
Any value	3403	246 (7.2)	1339	123 (9.2)	512	62 (12.1)				
Normal <200	1956	176 (9.0)	747	89 (11.9)	277	48 (17.3)				
Borderline ≥200 to <240	949	44 (4.6)	390	20 (5.1)	155	7 (4.5)				
High <u>></u> 240	498	26 (5.2)	202	14 (6.9)	80	7 (8.8)				
Mean (SD) BL for Any	3403	195 (42)	1339	197.7 (43)	512	200.5 (44.7)				
Mean (SD) BL for NI	1956	167.2 (23)	747	168 (22)	277	169.6 (20.7)				
Mean (SD) BL for Bl	949	216.9 (12)	390	218 (11)	155	218.0 (11.6)				
Mean (SD) BL High	498	267 (29)	202	268.6 (33)	80	273.2 (43.3)				
		•								
Mean (SD) EOT for Any	3403	194.7 (42)	1339	195.4 (42)	512	198.8 (42.6)				
Mean (SD) EOT for NI	1956	173.3 (32)	747	174.8 (33)	277	179.7 (33.7)				
Mean (SD) EOT for Bl	949	211.5 (28)	390	210.5 (28)	155	209.6 (28.9)				
Mean (SD) EOT for High	498	247.8 (41)	202	242 (43.5)	80	244.0 (50.4)				
Mean (SD) change Any	3403	-0.8 (29)	1339	-2.3 (33.0)	512	-1.7 (36.0)				
Mean (SD) change Nl	1956	6.0 (25)	747	6.9 (29.2)	277	10.1 (32.0)				
Mean (SD) change Bl	949	-5.4 (27)	390	-7.5 (27.0)	155	-8.4 (27.7)				
Mean (SD) change High	498	-19.3 (37)	202	-26.3 (41)	80	-29.1 (44.7)				
·	·		·	_		·				
Modal (SD) Dose	180.8 (1	18.2)	180.3 (1	180.3 (119.1)		199.0 (150.2)				
Median Exposure (days)	63		141	· ·	270					
Information abtains I form Con-	Information obtained from Changar table 201, 202 and 202 in Clinical Study Bangar									

Information obtained from Sponsor table 301, 302 and 303 in Clinical Study Report

4. Total HDL outliers

Table 193: Proportion of Patients with treatment emergent shifts of total HDL(naïve subjects, all QTP trials)

Total HDL (mg/dL)	QTP -Post-baseline		QTP- Post-baseline		QTP - Post-baseline	
(fasting and non-fasting)			at ≥12 wl	at ≥12 wks exposure		ks exposure
Baseline (BL)	n (%)	<40	n (%)	<40	n (%)	<40
Normal ≥ 40	2978	392 (13)	1168	207(18)	449	97 (21.6)
Mean (SD) Normal at BL	2978	58.3 (14)	1168	59 (14)	449	58.9 (14.0)
Mean (SD) Normal at EOT	2978	54.9 (15)	1168	54(15)	449	52.8 (14.8)
Mean (SD) change for NI	2978	-3.4 (10)	1168	-5 (11)	449	-6.1 (10.7)
						_
Modal (SD) Dose (mg)	177.8 (11	177.8 (114.4)		174.2 (109.8)		32.8)
Median Exposure (days)	63		141		266	

Information obtained from Sponsor table 304, 305 and 306 in Clinical Study Report

5. Total HDL \geq 20 mg/dL decrease outliers

<u>Table 194: Proportion of Patients with treatment emergent shifts of total HDL \geq 20 mg/dL decrease (naïve subjects, all QTP trials)</u>

Total HDL (mg/dL)	QTP - Po	ost-baseline				QTP - Post-baseline at >24 wks exposure		
≥ 20 mg/dL decrease		1		at ≥12 wks exposure		_		
Baseline (BL)	n (%)	≥20 mg/dL	n (%)	≥20 mg/dL	n (%)	≥20 mg/dL		
Any value	3453	152 (4.4)	1340	94 (7.0)	513	50 (9.7)		
Normal >40	2978	150 (5.0)	1168	93 (8.0)	449	49 (10.9)		
Low ≤ 40	475	2 (0.4)	172	1 (0.6)	64	1 (1.6)		
Mean (SD) BL value	3453	55(16)	1340	55.4 (16)	513	55.8 (15)		
for Any value								
Mean (SD) BL value	2978	58 (14)	1168	58.5 (14)	449	58.9 (14)		
for Normal value		· · ·		, í		` ′		
Mean (SD) BL value	475	35 (4)	172	34.2 (4)	64	34 (4)		
for Low value		. /		` /				
		•	•	•		•		
Mean (SD) value at	3453	52 (16)	1340	51.4 (16)	513	50.9 (15)		
EOT for Any value		` ′		` ′		` ′		
Mean (SD) value at	2978	55 (15)	1168	53.8 (15)	449	53 (14)		
EOT for Normal value		` ′		` ′		. ,		
Mean (SD) value at	475	35 (9)	172	35 (10.4)	64	36.2 (14)		
EOT for Low value		. /		` /		` ′		
	'	•	•	•		•		
Mean (SD) change	3453	-2.8 (9.8)	1340	-4.0 (11)	513	-4.9 (12)		
for Any value		` ′		. ,		` ′		
Mean (SD) change	2978	-3.3 (9.9)	1168	-4.7 (11)	449	-5.9 (11)		
for Normal value		, ,		. ,				
Mean (SD) change	475	0.9 (8.2)	172	0.4 (10)	64	2.2 (14)		
for Low value		(3.7)				, ,		
*			- 1	_1	-1	_1		
Modal (SD) Dose	180.9 (11	8.2)	180 3 (1	180.3 (119.1)		50.2)		
Median Exp (days)	63	· · · · · ·	141	. /		199.0 (150.2) 270		
Information obtained from S		207 200 and 200		tudy Danart	2,0			

Information obtained from Sponsor table 307, 308 and 309 in Clinical Study Report

6. Total fasting LDL outliers

Table 195: Proportion of Patients with treatment emergent shifts of fasting LDL (naïve subjects, all QTP trials)

Fasting LDL(mg/dL)	QTP -Post-baseline			QTP- Post-baseline at ≥12 wks exposure			QTP - Post-baseline at ≥24 wks exposure		
Baseline (BL)	n (%)	≥160 <u>/</u> ≥130	≥100/ ≤130	n(%)	≥160 <u>/</u> ≥130	≥100/ ≤130	n(%)	≥160 <u>/</u> ≥130	≥100 /≤130
Normal <100	650	9(1)	186 (28)	294	5 (2)	96 (33)	118	3 (2.5)	47 (40)
Borderline ≥100 to<160	997	71 (7)	-	437	36 (8)	-	180	15 (8)	-
Normal/Borderline<160	1647	80 (5)	-	731	41 (6)	=	298	18 (6)	-
Mean (SD) BL Any	674	80 (15)	80 (15)	294	81 (15)	81 (15)	118	81 (15)	81 (15)

Mean (SD) BL Nl	1001	125 (16	-	437	126 (17	-	180	125 (16	-
Mean (SD) BL Low	1647	107(27	-	731	108 (27	-	298	108 (27	-
Mean (SD) EOT Any	674	87 (25	88 (26)	294	88 (25)	90 (25)	118	88 (26)	92 (27)
Mean (SD) EOT NI	1001	122 (26	-	437	121 (28	-	180	122(28)	-
Mean (SD) EOT Low	1647	109 (31	-	731	108 (31	-	298	108(32)	-
Mean (SD) change Any	674	7 (22	8 (22)	294	7 (22)	9 (22)	118	8 (23)	12 (23)
Mean (SD) change Nl	1001	-3 (23)	-	437	-4 (24)	-	180	-4 (25)	-
Mean (SD) change Low	1647	0.8 (23	-	731	0	-	298	0.8 (25)	-
Modal (SD) Dose	183.4 ([117.1]		181.5 (1	110.1)		196.8	(129.5)	
Median Exp (days)	64			142			276		

Information obtained from Sponsor table 310, 311 and 312 in Clinical Study Report

7. Total fasting $LDL \ge 30 \text{ mg/dl}$ increase outliers

Table 196: Proportion of Patients with treatment emergent shifts of fasting LDL≥30 mg/dL increase (naïve subjects, all QTP trials)

fasting LDL	QTP -Po	st-baseline	QTP- Po	QTP- Post-baseline		QTP - Post-baseline		
≥ 30 mg/dL increase			at ≥12 w	ks exposure	at ≥24 w	ks exposure		
Baseline (BL)	n (%)	≥30 mg/dL	n (%)	≥30 mg/dL	n (%)	≥30 mg/dL		
Any Value	1818	176 (9.7)	814	100 (12.3)	336	52 (15.5)		
Normal <100	650	89 (13.7)	294	53 (18.0)	118	27 (22.9)		
Borderline ≥100 to <160	997	75 (7.5)	437	40 (9.2)	180	21 (11.7)		
Normal/Borderline <160	171	12 (7.0)	83	7 (8.4)	38	4 (10.5)		
Mean (SD) BL Any	1848	114 (35)	814	115.6 (35)	336	116 (37)		
Mean (SD) BL NI	674	80.5 (15)	294	81.3 (15.0)	118	80.7 (15)		
Mean (SD) BL Low	1001	125 (16.4)	437	125.9 (17)	180	125 (16)		
Mean (SD) BL Any	171	184 (25.1)	83	183 (21.4)	38	188 (26)		
	•							
Mean (SD) EOT Any	1848	113.6 (35)	814	113.6 (35)	336	116 (38)		
Mean (SD) EOT NI	674	88.3 (26)	294	89.5 (25.8)	118	91.3 (28)		
Mean (SD) EOT Low	1001	121.9 (26)	437	121 (27)	180	121 (28)		
Mean (SD) EOT Any	171	164.8 (38)	83	160.5 (38)	38	164 (43)		
Mean (SD) change Any	1848	-0.9 (25)	814	-2.0 (27.1)	336	-0.8 (29)		
Mean (SD) change NI	674	7.8 (22.3)	294	8.2 (22.5)	118	10.6 (25)		
Mean (SD) change Low	1001	-3.5 (23)	437	-4.9 (24.3)	180	-3.6 (25)		
Mean (SD) change Any	171	-19.6 (35)	83	-22.8 (39)	38	-23 (40)		
Modal (SD) Dose (mg)	183.1 (1	16.2)	179.9 (1	08.9)	193.0 (1	26.2)		
Median Exposure (days)	64		143		273			
T.C. (1. 1.1. 1.0. C.		12 214 1215	au					

Information obtained from Sponsor table 313, 314 and 315 in Clinical Study Report

8. Fasting Triglycerides outliers

The QTP treated subjects with treatment emergent shifts of Fasting Triglycerides show a mean change of 20, 22 and 23 at post baseline, \geq 12 weeks exposure and \geq 24 weeks exposure for the normal Fasting Triglycerides (\geq 200) respectively. See table below for QTP dose (in mg) and median exposure days.

Table 197: Proportion of Patients with treatment emergent shifts of fasting (naïve subjects, all QTP trials)

Triglycerides,	QTP -Po	st-baselin	e		QTP- Po	st-baseline			QTP - P	ost-baselii	ne	
Fasting (mg/dL)					at ≥12 w	ks exposur	e		at ≥24 v	vks exposi	ıre	
Baseline (BL)	n (%)	≥500	≥200	≥150	n (%)	≥500	<u>≥</u> 200	≥150	n (%)	≥500	<u>≥</u> 200	≥150
Normal	1287	1	113	272	559	1	56 (10.0)	134	226	0	26	64
<150		(0)	(8.8)	(21.1)		(0.2)		(24.0)			(11.5)	(28.3)
Borderline	273	4	101	-	127	3	59 (46.5)	-	54	1 (1.9)	21	-
\geq 150 to $<$ 200		(1.5)	(37.0)			(2.4)					(38.9)	
Normal/Borderline	1560	5	214	-	686	4	115	-	280	1 (0.4)	47	-
<200		(0.3)	(13.7)			(0.6)	(16.8)				(16.8)	

1287	91.4	91.4	91.4	559	93.3	93.3	93.3	226	93.4	93.4	93.4
	(29.0)	(29.0)	(29.0)		(27.9)	(27.9)	(27.9)		(27.1)	(27.1)	(27.1)
273	172.6	172.6	-	127	172.8	172.8	-	54	173.1	173.1	-
	(14.9)	(14.9)			(15.7)	(15.7)			(16.9)	(16.9)	
1560	105.6	105.6	-	686	108.0	108.0	-	280	108.8	108.8	-
	(41.1)	(41.1)			(40.4)	(40.4)			(40.5)	(40.5)	
			•								
1287	109.8	111.2	112.1	559	111.5	114.9	117.0	226	110.4	116.5	120.4
	(57.0)	(59.4)	(59.3)		(58.7)	(63.9)	(63.6)		(56.5)	(65.1)	(65.7)
273	186.0	189.2	-	127	193.8	200.5	-	54	171.0	186.7	-
	(96.6)	(94.7)			(102.3)	(97.8)			(81.5)	(88.2)	
1560	123.1	124.9	-	686	126.8	130.8	-	280	122.1	130.0	-
	(71.7)	(73.2)			(75.9)	(78.7)			(66.4)	(75.3)	
1287				559				226			26.9
	_ /		(51.9)		/		(57.3)				(60.1)
273	1		-	127			-	54			-
	_ /				/				_ /		
1560			-	686			-	280			
	(60.5)	(61.7)			(64.9)	(67.3)			(59.3)	(66.9)	
182.2 (1	18.3) mg			177.6 (1	108.1) mg			189.5 (1	125.2) mg		
1											
64 days				142 day				270 day			
	273 1560 1287 273 1560 1287 273 1560	(29.0) 273 172.6 (14.9) 1560 105.6 (41.1) 1287 109.8 (57.0) 273 186.0 (96.6) 1560 123.1 (71.7) 1287 18.4 (49.8) 273 13.4 (96.0)	(29.0) (29.0) 273 172.6 172.6 (14.9) (14.9) (14.9) 1560 105.6 105.6 (41.1) (41.1) 1287 109.8 111.2 (57.0) (59.4) 273 186.0 189.2 (96.6) (94.7) 1560 123.1 124.9 (71.7) (73.2) 1287 18.4 19.9 (49.8) (52.4) 273 13.4 16.5 (96.0) (94.0) 1560 17.5 19.3 (60.5) (61.7)	(29.0) (29.0) (29.0) 273 172.6 172.6 - (14.9) (14.9) - - 1560 105.6 105.6 - - (41.1) (41.1) - - 1287 109.8 111.2 112.1 (59.3) 273 186.0 189.2 - - (96.6) (94.7) - - 1560 123.1 124.9 - (71.7) (73.2) - 1287 18.4 19.9 20.8 (49.8) (52.4) (51.9) 273 13.4 16.5 - (96.0) (94.0) - 1560 17.5 19.3 - (60.5) (61.7) -	(29.0) (29.0) (29.0) 273 172.6 172.6 - 127 (14.9) (14.9) - 686 1560 105.6 105.6 - 686 (41.1) (41.1) - 686 1287 109.8 111.2 112.1 559 (57.0) (59.4) (59.3) - 127 273 186.0 189.2 - 127 (96.6) (94.7) - 686 1287 18.4 19.9 20.8 559 (49.8) (52.4) (51.9) 559 273 13.4 16.5 - 127 1560 17.5 19.3 - 686 1560 17.5 19.3 - 686	(29.0) (29.0) (29.0) (27.9) 273 172.6 172.6 - 127 172.8 (14.9) (14.9) - 127 172.8 (15.7) 1560 105.6 105.6 - 686 108.0 (41.1) (41.1) - 686 108.0 (40.4) 1287 109.8 111.2 112.1 559 111.5 (58.7) 273 186.0 189.2 - 127 193.8 (102.3) 1560 123.1 124.9 - 686 126.8 (75.9) 1287 18.4 19.9 20.8 559 18.2 (52.9) 273 13.4 16.5 - 127 21.0 (52.9) 273 13.4 16.5 - 127 21.0 (102.6) 1560 17.5 19.3 - 686 18.7 (60.5) (61.7) - 686 18.7 <	(29.0) (29.0) (29.0) (27.9) (27.9) 273 172.6 172.6 - 127 172.8 172.8 (14.9) (14.9) - 127 172.8 172.8 1560 105.6 105.6 - 686 108.0 108.0 (41.1) (41.1) (41.1) - 686 108.0 108.0 (40.4) (40.4) (40.4) (40.4) (40.4) 1287 109.8 111.2 112.1 559 111.5 114.9 (57.0) (59.4) (59.3) (58.7) (63.9) 273 186.0 189.2 - 127 193.8 200.5 (96.6) (94.7) - 686 126.8 130.8 (71.7) (73.2) - 686 126.8 130.8 (71.7) (73.2) (51.9) (52.9) (58.3) 273 13.4 16.5 - 127 21.0 <t< td=""><td>(29.0) (29.0) (29.0) (27.9) (27.9) (27.9) 273 172.6 172.6 - 127 172.8 172.8 - (14.9) (14.9) (14.9) (15.7) (15.7) (15.7) - 1560 105.6 105.6 - 686 108.0 108.0 - (41.1) (41.1) (41.1) 559 111.5 114.9 117.0 (57.0) (59.4) (59.3) (58.7) (63.9) (63.6) 273 186.0 189.2 - 127 193.8 200.5 - (96.6) (94.7) - 686 126.8 130.8 - (71.7) (73.2) - 686 126.8 130.8 - (71.7) (73.2) (51.9) (52.9) (58.3) (57.3) 1287 18.4 19.9 20.8 559 18.2 21.6 23.7 (49.8) (52.4) (51.9)</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<>	(29.0) (29.0) (29.0) (27.9) (27.9) (27.9) 273 172.6 172.6 - 127 172.8 172.8 - (14.9) (14.9) (14.9) (15.7) (15.7) (15.7) - 1560 105.6 105.6 - 686 108.0 108.0 - (41.1) (41.1) (41.1) 559 111.5 114.9 117.0 (57.0) (59.4) (59.3) (58.7) (63.9) (63.6) 273 186.0 189.2 - 127 193.8 200.5 - (96.6) (94.7) - 686 126.8 130.8 - (71.7) (73.2) - 686 126.8 130.8 - (71.7) (73.2) (51.9) (52.9) (58.3) (57.3) 1287 18.4 19.9 20.8 559 18.2 21.6 23.7 (49.8) (52.4) (51.9)	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Information obtained from Sponsor table 316, 317 and 318 in Clinical Study Report

9. Fasting Triglycerides of ≥ 50 mg/dL increase outliers

Table 198: Proportion of Patients with treatment emergent shifts of fasting triglycerides \geq 50 mg/dL increase (naïve subjects, all QTP trials)

Fasting triglycerides ≥ 50 mg/dL increase	QTP -Po	ost-baseline	_	ost-baseline vks exposure		ost-baseline vks exposure
Baseline (BL)	n (%)	>50	n (%)	>50	n (%)	>50
Any Value	1851	424 (23)	816	220 (27.0)	336	84 (25.0)
Normal <150	1287	267 (21)	559	135 (24.2)	226	\ /
		_ ` /	127	\ /	54	60 (26.5)
Borderline ≥150 to<200	273	75 (27.5)		42 (33.1)		12 (22.2)
High >200 to < 500	272	78 (28.7)	119	40 (33.6)	50	11 (22.0)
Very High ≥ 500	19	4 (21.1)	11	3 (27.3)	6	1 (16.7)
Mean (SD) BL Any	1851	137 (101)	816	141.5 (109)	336	143.9 (104.8)
Mean (SD) BL NI	1287	91.4 (29)	559	93.3 (27.9)	226	93.4 (27.1)
Mean (SD) BL BRD	273	173 (15)	127	172.8 (16)	54	173.1 (16.9)
Mean (SD) BL HIGH	272	278(72)	119	281.1 (76)	50	278.5 (68.1)
Mean (SD) BL LOW	19	729 (252)	11	720.1 (318)	6	662.1 (163.4)
Mean (SD) EOT Any	1851	152 (121)	816	159.0 (122)	336	156.2 (105.8)
Mean (SD) EOT NI	1287	112 (59)	559	116.8 (63)	226	119.9 (64.4)
Mean (SD) EOT BRD	273	188 (94)	127	199.0 (99)	54	185.2 (87.9)
Mean (SD) EOT HIGH	272	272 (129)	119	282.6 (134)	50	254.4 (99.1)
Mean (SD) EOT LOW	19	582 (561)	11	506.1 (469)	6	443.4 (348.1)
	T	1	T		1	
Mean (SD) change Any	1851	14.3 (87)	816	17.5 (83.6)	336	12.2 (83.7)
Mean (SD) change NI	1287	20.7 (52)	559	23.5 (56.9)	226	26.5 (59.2)
Mean (SD) change BRD	273	15.8 (94)	127	26.3 (98.1)	54	12.1 (90.2)
Mean (SD) change HIGH	272	-6 (114)	119	1.5 (115.7)	50	-24.1 (100.0)
Mean (SD) change LOW	19	-147(463)	11	-214(212)	6	-218.7 (203.1)
Modal (SD) Dose (mg)	183.0 (1	16.2)	179.7 (1	08.9)	193.0 (1	26.2)
Median Exp (days)	64		143		273	

Information obtained from Sponsor table 319, 320 and 321 in Clinical Study Report

10. Fasting Triglycerides of ≥ 500 mg/dL "very high" increase outliers

Table 199: Proportion of Patients with treatment emergent shifts of very high fasting triglycerides (naïve subjects, all QTP trials)

Fasting triglycerides ≥ Very High	QTP -Pos	st-baseline	~	st-baseline at s exposure	_	ost-baseline at s exposure
Baseline (BL)	n (%)	≥ 500	n (%)	<u>≥</u> 500	n (%)	<u>≥</u> 500
Very High < 500	1832	22 (1)	805	12 (1.5)	330	3 (0.9)
Mean (SD) BL Very high	1832	131(77)	805	133 (77)	330	134.5 (76.1)
Mean (SD) EOT Very high	1832	145 (98)	805	149 (103)	330	141.0 (84.4)
Mean (SD) change Very high	1832	14 (72)	805	15 (76.0)	330	6.5 (68.1)
Modal (SD) Dose (mg)	182.8 (11	6.4)	179.6 (10	9.0)	192.3 (12	26.5)
Median Exp (days)	64		143		273	

Information obtained from Sponsor table 322, 323 and 324 in Clinical Study Report

8 APPENDIX

8.1 Tables summarizing subject demographic Information

8.1.1 Adult subjects in placebo-controlled trials

Table 200: Baseline demographics (adult subjects, placebo-controlled trials)

		QTP	PLA
		N=6870	N=3000
Sex n (%)	Male	3336 (48.6)	1365 (45.5)
	Female	3534 (51.4)	1635 (54.5)
Age (years)	n	6870	3000
	Mean (SD)	39.4 (11.4)	39.5 (11.9)
Race/ethnicity n (%)	White	4725 (68.8)	2058 (68.6)
	Black	1359 (19.8)	571 (19.0)
	Asian	409 (6.0)	201 (6.7)
	Hispanic	232 (3.4)	97 (3.2)
	Mixed, Other	140 (2.0)	71 (2.4)
	Not specified	5 (0.1)	2 (0.1)
Treatment indication n (%)	Dementia	0 (0.0)	0 (0.0)
	Schizoaffective	0 (0.0)	0 (0.0)
	Schizophrenia	1875 (27.3)	525 (17.5)
	Bipolar mania	297 (4.3)	287 (9.6)
	Bipolar depression	1734 (25.2)	687 (22.9)
	Bipolar mixed, etc.	178 (2.6)	126 (4.2)
	Major depressive disorder (MDD)	1149 (16.7)	648 (21.6)
	Generalized anxiety disorder (GAD)	1572 (22.9)	665 (22.2)
	Others	0 (0.0)	0 (0.0)
	Healthy volunteers	65 (0.9)	62 (2.1)
Modal dose (mg)	n	6870	3000
	Mean (SD)	345.1 (223.6)	0.0 (0.0)
Exposure (days)	n	6870	3000
	Median (Q1, Q3)	42.0 (21, 56)	45.0 (22, 56)

8.1.2 Adult subjects in comparator-controlled trials

Table 201: Baseline demographics (adult subjects, chlorpromazine-controlled trials)

		QTP	CHL
		N=346	N=349
Sex n (%)	Male	228 (65.9)	237 (67.9)
	Female	118 (34.1)	112 (32.1)
Age (years)	n	346	349
	Mean (SD)	37.8 (10.9)	38.3 (10.5)
Race/ethnicity n (%)	White	245 (70.8)	260 (74.5)
	Black	55 (15.9)	38 (10.9)
	Asian	5 (1.4)	3 (0.9)
	Hispanie	25 (7.2)	29 (8.3)
	Mixed, Other	16 (4.6)	19 (5.4)
	Not specified	0 (0.0)	0 (0.0)
Freatment indication n (%)	Dementia	0 (0.0)	0 (0.0)
	Schizoaffective	0 (0.0)	0 (0.0)
	Schizophrenia	346 (100.0)	349 (100.0)
	Bipolar mania	0 (0.0)	0 (0.0)
	Bipolar depression	0 (0.0)	0 (0.0)
	Bipolar mixed, etc.	0 (0.0)	0 (0.0)
	Major depressive disorder (MDD)	0 (0.0)	0 (0.0)
	Generalized anxiety disorder (GAD)	0 (0.0)	0 (0.0)
	Others	0 (0.0)	0 (0.0)
	Healthy volunteers	0 (0.0)	0 (0.0)
Modal dose (mg)	n	346	349
	Mean (SD)	548.0 (130.7)	620.8 (230.8)
Exposure (days)	n	346	349
enposite (unys)	Median (Q1, Q3)	62.5 (42, 70)	62.0 (35, 70)
	Min to max	1 to 124	2 to 96
		OTB	CHL
		QTP	
		N=346	N=349
Reasons for discontinuation n (%)	Lack of efficacy	17 (4.9)	15 (4.3)
	Side effects	23 (6.6)	42 (12.0)
	Metabolic side effects	0 (0.0)	0 (0.0)
Weight (kg)	n	346	346
	Mean (SD)	73.6 (16.0)	73.1 (14.9)
BMI (kg/m²)	n	264	260
	M (CD)	35.0 /5.43	26.2 /6.13
	Mean (SD)	25.9 (5.6)	25.2 (5.1)

Note: Percentages calculated as 100*n/N.

Studies included 204636/0007, 5077IL/0031, 5077IL/0054

Table ID: A2109_DEM_1B_CHL. Program: \Demo tables\Program\MakeDemoTable.sas. User: kjwm515. Data created: 21MAY2008:12:57. Table created: 21MAY2008:12:57.

Table 202: Baseline demographics (adult subjects, haloperidol-controlled trials)

Age (years) Race/ethnicity n (%)	Male Female n Mean (SD) White Black Asian Hispanic Mixed, Other Not specified	N=1276 879 (68.9) 397 (31.1) 1276 38.2 (10.9) 921 (72.2) 133 (10.4) 143 (11.2) 44 (3.4) 35 (2.7) 0 (0.0)	N=849 544 (64.1) 305 (35.9) 849 38.7 (11.9) 634 (74.7) 38 (4.5) 131 (15.4) 18 (2.1) 28 (3.3)
Age (years) Race/ethnicity n (%)	Female n Mean (SD) White Black Asian Hispanic Mixed, Other	397 (31.1) 1276 38.2 (10.9) 921 (72.2) 133 (10.4) 143 (11.2) 44 (3.4) 35 (2.7)	305 (35.9) 849 38.7 (11.9) 634 (74.7) 38 (4.5) 131 (15.4) 18 (2.1) 28 (3.3)
Age (years) Race/ethnicity n (%)	n Mean (SD) White Black Asian Hispanic Mixed, Other	1276 38.2 (10.9) 921 (72.2) 133 (10.4) 143 (11.2) 44 (3.4) 35 (2.7)	849 38.7 (11.9) 634 (74.7) 38 (4.5) 131 (15.4) 18 (2.1) 28 (3.3)
Race/ethnicity n (%)	Mean (SD) White Black Asian Hispanic Mixed, Other	38.2 (10.9) 921 (72.2) 133 (10.4) 143 (11.2) 44 (3.4) 35 (2.7)	38.7 (11.9) 634 (74.7) 38 (4.5) 131 (15.4) 18 (2.1) 28 (3.3)
Race/ethnicity n (%)	Mean (SD) White Black Asian Hispanic Mixed, Other	38.2 (10.9) 921 (72.2) 133 (10.4) 143 (11.2) 44 (3.4) 35 (2.7)	38.7 (11.9) 634 (74.7) 38 (4.5) 131 (15.4) 18 (2.1) 28 (3.3)
Race/ethnicity n (%)	White Black Asian Hispanic Mixed, Other	921 (72.2) 133 (10.4) 143 (11.2) 44 (3.4) 35 (2.7)	634 (74.7) 38 (4.5) 131 (15.4) 18 (2.1) 28 (3.3)
	Black Asian Hispanic Mixed, Other	133 (10.4) 143 (11.2) 44 (3.4) 35 (2.7)	38 (4.5) 131 (15.4) 18 (2.1) 28 (3.3)
	Asian Hispanic Mixed, Other	143 (11.2) 44 (3.4) 35 (2.7)	131 (15.4) 18 (2.1) 28 (3.3)
	Hispanic Mixed, Other	44 (3.4) 35 (2.7)	18 (2.1) 28 (3.3)
	Mixed, Other	35 (2.7)	28 (3.3)
	•		
	Not specified	0 (0.0)	0.000
Prontessent in direction of (9/1)			0 (0.0)
Treatment indication n (%)	Dementia	0 (0.0)	0 (0.0)
	Schizoaffective	28 (2.2)	33 (3.9)
	Schizophrenia	1146 (89.8)	717 (84.5)
	Bipolar mania	102 (8.0)	99 (11.7)
	Bipolar depression	0 (0.0)	0 (0.0)
	Bipolar mixed, etc.	0 (0.0)	0 (0.0)
	Major depressive disorder (MDD)	0 (0.0)	0 (0.0)
	Generalized anxiety disorder		0 (0.0)
	(GAD)	0 (0.0)	0 (0.0)
	Others	0 (0.0)	0 (0.0)
	Healthy volunteers	0 (0.0)	0 (0.0)
Modal dose (mg)	n	1276	849
	Mean (SD)	416.2 (229.6)	11.0 (5.6)
	n	1276	849
	Median (Q1, Q3)	42.0 (21, 59)	42.0 (22, 57)
	Min to max	1 to 426	1 to 442
Reasons for discontinuation n (%)	Lack of efficacy	201 (15.8)	61 (7.2)
	Side effects	82 (6.4)	103 (12.1)
		QTP	HAL
		N=1276	N=849
	Metabolic side effects	1 (0.1)	0 (0.0)
W. 1.4.		1246	820
Weight (kg)	n	1246	839
	Mean (SD)	76.2 (17.2)	73.5 (16.9)
BMI (kg/m²)	n	972	575
· · · ·	Mean (SD)	26.4 (5.3)	25.8 (5.1)

V Number of patients in treatment group. n Number of patients. NA Not applicable. HAL Haloperidole. QTP Quetiapine. Q1 Lower quartile. Q3 Upper quartile. SD standard deviation.

Vote: Percentages calculated as 100*n/N.

Studies included 5077II_/0013, 5077II_/0014, 5077II_/0015, 5077II_/0050, 5077II_/0052, 5077II_/0104, H-15-31

Table ID: A2106_DEM_1B_HAL. Program: 'Demo tables'Program'\MakeDemoTable.sas. User: kjwm515. Data created: 21MAY2008:12:57. Table created: 21MAY2008:12:57.

Table 203: Baseline demographics (adult subjects, olanzapine-controlled trials)

	8 1 \ 3 /	OTB	01.7
		QTP N=297	OLZ N=298
Sex n (%)	Male	193 (65.0)	209 (70.1)
Sex II (/6)	Female	104 (35.0)	89 (29.9)
	remaie	104 (55.0)	69 (29.9)
Age (years)	n	297	298
Age (years)	Mean (SD)	32.8 (11.5)	33.2 (11.8)
	Mean (SD)	32.6 (11.5)	33.2 (11.6)
Race/ethnicity n (%)	White	210 (70.7)	209 (70.1)
	Black	75 (25.3)	76 (25.5)
	Asian	7 (2.4)	8 (2.7)
	Hispanic	0 (0.0)	0 (0.0)
	Mixed, Other	5 (1.7)	5 (1.7)
	Not specified	0 (0.0)	0 (0.0)
Treatment indication n (%)	Dementia	0 (0.0)	0 (0.0)
	Schizoaffective	17 (5.7)	17 (5.7)
	Schizophrenia	280 (94.3)	281 (94.3)
	Bipolar mania	0 (0.0)	0 (0.0)
	Bipolar depression	0 (0.0)	0 (0.0)
	Bipolar mixed, etc.	0 (0.0)	0 (0.0)
	Major depressive disorder (MDD)	0 (0.0)	0 (0.0)
	Generalized anxiety disorder (GAD)	0 (0.0)	0 (0.0)
	Others	0 (0.0)	0 (0.0)
	Healthy volunteers	0 (0.0)	0 (0.0)
Modal dose (mg)	n	295	295
	Mean (SD)	561.4 (192.2)	13.7 (4.8)
F (1)	_	297	298
Exposure (days)	n Median (Q1, Q3)		
	Min to max	167.0 (72, 175) 4 to 396	168.0 (157, 176) 1 to 444
	MIN to max	4 10 390	1 to 444
Reasons for discontinuation n (%)	Lack of efficacy	25 (8.4)	22 (7.4)
	Side effects	38 (12.8)	23 (7.7)
		QTP	OLZ
		N=297	N=298
	Metabolic side effects	0 (0.0)	1 (0.3)
W-:-14 A>	_	207	205
Weight (kg)	n	297	295
	Mean (SD)	74.1 (17.5)	74.5 (17.3)
BMI (kg/m ²)	n	296	295
	M (SD)	35.1 /5.05	25.2 /5 /\
	Mean (SD)	25.1 (5.0)	25.2 (5.4)

N Number of patients in treatment group. n Number of patients. NA Not applicable. OLZ Olanzapine. QTP Quetiapine. Q1 Lower quartile. Q3 Upper quartile. SD standard deviation.

Note: Percentages calculated as 100*n/N.

Studies included D1441C00125, D1441L00002

Table ID: A2103_DEM_1B_OLZ. Program: \Demo tables\Program\MakeDemoTable.sas. User: kjwm515. Data created: 21MAY2008:12:56. Table created: 21MAY2008:12:56.

Table 204: Baseline demographics (adult subjects, risperidone-controlled trials)

		QTP	RI
		N=1385	N=1014
Sex n (%)	Male	859 (62.0)	680 (67.1)
	Female	526 (38.0)	334 (32.9)
Age (years)	n	1385	1014
	Mean (SD)	39.6 (12.5)	38.1 (12.3)
Race/ethnicity n (%)	White	915 (66.1)	661 (65.2)
	Black	346 (25.0)	287 (28.3)
	Asian	30 (2.2)	11 (1.1)
	Hispanic	63 (4.5)	32 (3.2)
	Mixed, Other	31 (2.2)	23 (2.3)
	Not specified	0 (0.0)	0 (0.0)
Treatment indication n (%)	Dementia	13 (0.9)	5 (0.5)
	Schizoaffective	174 (12.6)	76 (7.5)
	Schizophrenia	1023 (73.9)	884 (87.2)
	Bipolar mania	83 (6.0)	21 (2.1)
	Bipolar depression	0 (0.0)	0 (0.0)
	Bipolar mixed, etc.	2 (0.1)	0 (0.0)
	Major depressive disorder (MDD)	72 (5.2)	25 (2.5)
	Generalized anxiety disorder (GAD)	0 (0.0)	0 (0.0)
	Others	18 (1.3)	3 (0.3)
	Healthy volunteers	0 (0.0)	0 (0.0)
Modal dose (mg)	n	1383	1013
	Mean (SD)	425.5 (229.7)	5.2 (2.4)
Exposure (days)	n	1385	1014
	Median (Q1, Q3)	70.0 (36, 121)	65.0 (37, 122)
	Min to max	1 to 396	1 to 447
Reasons for discontinuation n (%)	Lack of efficacy	139 (10.0)	81 (8.0)
	Side effects	127 (9.2)	85 (8.4)
		QTP	RI
		N=1385	N=1014
	Metabolic side effects	1 (0.1)	2 (0.2)
Weight (kg)		828	833
Merenn (ve)	n		
	Mean (SD)	77.9 (19.7)	79.8 (19.7)
BMI (kg/m²)	n	683	678
	Mean (SD)	26.7 (6.4)	27.2 (6.5)

N Number of patients in treatment group. n Number of patients. NA Not applicable. QTP Quetiapine. Q1 Lower quartile. Q3 Upper quartile. RI Risperidone. SD standard deviation.

Note: Percentages calculated as 100*n/N.

Studies included 5077IL/0053, 5077US/0004, 5077US/0043, D1441C00125, D1441L00002

Table ID: A2101_DEM_1B_RI. Program: \Demo tables\Program\MakeDemoTable.sas. User: kjwm515. Data created: 21MAY2008:12:56.

Table created: 21MAY2008:12:56.

8.1.3 Adult subjects in Controlled and Uncontrolled trials

Table 205: Baseline demographics (adult subjects, quetiapine-treated, all trials)

		QTP
		N=20021
Sex n (%)	Male	10543 (52.7)
	Female	9478 (47.3)
Age (years)	n	20021
	Mean (SD)	39.4 (11.8)
Race/ethnicity n (%)	White	14045 (70.2)
	Black	2776 (13.9)
	Asian	1783 (8.9)
	Hispanic	837 (4.2)
	Mixed, Other	489 (2.4)
	Not specified	91 (0.5)
	-	
Freatment indication n (%)	Dementia	13 (0.1)
	Schizoaffective	463 (2.3)
	Schizophrenia	8489 (42.4)
	Bipolar mania	1592 (8.0)
		QTP
		N=20021
	Bipolar depression	2685 (13.4)
	Bipolar mixed, etc.	736 (3.7)
	Major depressive disorder (MDD)	3075 (15.4)
	Generalized anxiety disorder (GAD)	2797 (14.0)
	Others	64 (0.3)
	Healthy volunteers	107 (0.5)
Modal dose (mg)	n	20018
	Mean (SD)	385.5 (240.5)
F (1)	_	20021
Exposure (days)	n M-E (01 02)	20021
	Median (Q1, Q3)	57.0 (29, 113) 1 to 2253
	Min to max	1 to 2255
Reasons for discontinuation n (%)	Lack of efficacy	1407 (7.0)
wasons for uncommittedibil II (/0)	Side effects	2272 (11.3)
	Metabolic side effects	59 (0.3)
	METODORE MAE CAIELD	37 (0.3)
Weight (kg)	n	19333
	Mean (SD)	78.2 (20.3)
	·/	
BMI (kg/m²)	n	17765
,		

Mean (SD) 27.5 (6.7)

N Number of patients in treatment group. n Number of patients. NA Not applicable. NA Not applicable. QTP Quetiaprine. Q1 Lower quartile. Q3 Upper quartile. SD standard deviation.

Note: Percentages calculated as 100*n/N.

Studies included 204636/0003, 204636/0007, 204636/0008, 5077IL/0004, 5077IL/0005, 5077IL/0006, 5077IL/0008, 5077IL/0012, 5077IL/0033, 5077IL/0013, 5077IL/0015, 5077IL/0016, 5077IL/0024, 5077IL/0027, 5077IL/0029, 5077IL/0031, 5077IL/0033, 5077IL/0035, 5077IL/0035, 5077IL/0037, 5077IL/0037, 5077IL/0038, 5077IL/0038, 5077IL/0037, 5077IL/0038, 5077IL/0038, 5077IL/0038, 5077IL/0039, 5077IL/0039, 5077IL/0061, 5077IL/0062, 5077IL/0065, 5077IL/0065, 5077IL/0065, 5077IL/0065, 5077IL/0072, 5077IL/0084, 5077IL/0039, 5077IL/0093, 5077IL/0061, 5077IL/0062, 5077IL/0065, 5077IL/0072, 5077IL/0072, 5077IL/0039, 5077IL/0093, 5077IL/0039, 5077IL/0039, 5077IL/0014, 5077IL/0016, 5077IL/0016, 5077IL/0017, 5077IL/0109, 5077IL/0118, 5077US/0043, 5077US/0049, D1441C00033, D1441C00125, D1441C00130, D1444C00001, D1444C00132, D1444C00032, D1444C00004, D1444C000147, D1447C000132, D1444C00001, D1448C00001, D1

8.1.4 Subjects with first episode psychosis and antipsychotic-naïve subjects in placebocontrolled trials

Table 206: Baseline demographics (naïve subjects, placebo-controlled trials)

		QTP	PLA
		N=2489	N=1207
Sex n (%)	Male	973 (39.1)	457 (37.9)
	Female	1516 (60.9)	750 (62.1)
Age (years)	n	2489	1207
	Mean (SD)	39.4 (12.4)	39.0 (12.5)
Race/ethnicity n (%)	White	1918 (77.1)	883 (73.2)
	Black	409 (16.4)	232 (19.2)
	Asian	54 (2.2)	36 (3.0)
	Hispanic	85 (3.4)	48 (4.0)
	Mixed, Other	23 (0.9)	8 (0.7)
	Not specified	0 (0.0)	0 (0.0)
Treatment indication n (%)	Dementia	0 (0.0)	0 (0.0)
	Schizoaffective	0 (0.0)	0 (0.0)
	Schizophrenia	60 (2.4)	23 (1.9)
	Bipolar mania	0 (0.0)	0 (0.0)
	Bipolar depression	0 (0.0)	0 (0.0)
	Bipolar mixed, etc.	0 (0.0)	0 (0.0)
	Major depressive disorder (MDD)	976 (39.2)	542 (44.9)
	Generalized anxiety disorder (GAD)	1393 (56.0)	582 (48.2)
	Others	0 (0.0)	0 (0.0)
	Healthy volunteers	60 (2.4)	60 (5.0)
Modal dose (mg)	n	2489	1207
	Mean (SD)	174.7 (114.9)	0.0 (0.0)
Exposure (days)	n	2489	1207
	Median (Q1, Q3)	49.0 (27, 57)	55.0 (40, 58)
	Min to max	1 to 79	1 to 75
Reasons for discontinuation n (%)	Lack of efficacy	7 (0.3)	6 (0.5)
		QTP	PLA
	6:1	N=2489	N=1207
	Side effects Metabolic side effects	401 (16.1) 5 (0.2)	52 (4.3) 1 (0.1)
Weight (kg)	n	2488	1207
بر ح <u>ی</u> س (۱۹۵۸	n Mean (SD)	80.0 (20.6)	80.3 (21.8)
BMI (kg/m²)	n	2486	1205
(ag.m.)	Mean (SD)	28.2 (6.9)	28.3 (7.3)

N Number of patients in treatment group. n Number of patients. NA Not applicable. PLA Placebo. QTP Quetiapine. Q1 Low Q3 Upper quartile. SD standard deviation. Note: Percented and patients at 100 pt. Note: Percented at 100 pt. Note:

8.1.5 Subjects with first episode psychosis and antipsychotic-naïve subjects in comparatorcontrolled trials

Table 207: Baseline demographics (naïve subjects, olanzapine-controlled trials)

		QTP	OLZ
		N=66	N=72
Sex n (%)	Male	46 (69.7)	54 (75.0)
	Female	20 (30.3)	18 (25.0)
Age (years)	n	66	72
	Mean (SD)	24.8 (5.8)	25.0 (6.3)
	(/	()	
Race/ethnicity n (%)	White	30 (45.5)	33 (45.8)
	Black	30 (45.5)	32 (44.4)
	Asian	4 (6.1)	5 (6.9)
	Hispanic	0 (0.0)	0 (0.0)
	-		
	Mixed, Other	1 (1.5)	2 (2.8)
	Not specified	1 (1.5)	0 (0.0)
T	Dti-	0.40.00	0.40.05
Treatment indication n (%)	Dementia	0 (0.0)	0 (0.0)
		QTP	OLZ
	S. bina 65 ation	N=66	N=72
	Schizoaffective Schizoahumin	8 (12.1) 58 (87.9)	12 (16.7)
	Schizophrenia Bipolar mania		60 (83.3)
	Bipolar depression	0 (0.0) 0 (0.0)	0 (0.0)
	Bipolar mixed, etc.	0 (0.0)	0 (0.0) 0 (0.0)
	Major depressive disorder (MDD)	0 (0.0)	0 (0.0)
	Generalized anxiety disorder	0 (0.0)	0 (0.0)
	(GAD)	. ,	
	Others	0 (0.0)	0 (0.0)
	Healthy volunteers	0 (0.0)	0 (0.0)
Madal dans (sua)	_	64	70
Modal dose (mg)	n Mean (SD)		
	mean (SD)	503.1 (210.0)	11.5 (5.4)
Exposure (days)	n	66	72
	Median (Q1, Q3)	235.0 (72, 364)	166.0 (81, 358)
	Min to max	6 to 396	1 to 384
Reasons for discontinuation n (%)	Lack of efficacy	8 (12.1)	11 (15.3)
	Side effects	9 (13.6)	12 (16.7)
	Metabolic side effects	0 (0.0)	0 (0.0)
W. 1. 4. 5			70
Weight (kg)	n N (OD)	66	70
	Mean (SD)	77.0 (19.2)	79.5 (22.7)
BMI (kg/m²)	n	66	69
over (sg/m)	n Mean (SD)	25.7 (5.7)	26.1 (7.2)

N Number of patients in treatment group. n Number of patients. NA Not applicable. OLZ Olanzapine. QTP Quetiapine. Q1 Lower quartile. Q3 Upper quartile. SD standard deviation.

Note: Percentages calculated as 100*n/N.

Studies included D1441L00002

Table ID: C2103 DEM_3B_OLZ. Program: \Demo tables\Program\MakeDemoTable.sas. User: kjwm515. Data created: 21MAY2008:12:59. Table created: 21MAY2008:12:59.

Table 208: Baseline demographics (naïve subjects, risperidone-controlled trials)

		QTP	RI
		N=66	N=66
Sex n (%)	Male	46 (69.7)	46 (69.7)
	Female	20 (30.3)	20 (30.3)
Age (years)	n	66	66
	Mean (SD)	24.8 (5.8)	23.3 (6.2)
Race/ethnicity n (%)	White	30 (45.5)	41 (62.1)
	Black	30 (45.5)	23 (34.8)
	Asian	4 (6.1)	1 (1.5)
	Hispanic	0 (0.0)	0 (0.0)
	Mixed, Other	1 (1.5)	1 (1.5)
	Not specified	1 (1.5)	0 (0.0)
reatment indication n (%)	Dementia	0 (0.0)	0 (0.0)
	Schizoaffective	8 (12.1)	12 (18.2)
	Schizophrenia	58 (87.9)	54 (81.8)
	Bipolar mania	0 (0.0)	0 (0.0)
	Bipolar depression	0 (0.0)	0 (0.0)
	Bipolar mixed, etc.	0 (0.0)	0 (0.0)
	Major depressive disorder (MDD)	0 (0.0)	0 (0.0)
	Generalized anxiety disorder (GAD)	0 (0.0)	0 (0.0)
	Others	0 (0.0)	0 (0.0)
	Healthy volunteers	0 (0.0)	0 (0.0)
Modal dose (mg)	n	64	64
	Mean (SD)	503.1 (210.0)	2.3 (1.0)
Exposure (days)	n	66	66
Exposure (uays)	Median (Q1, Q3)	235.0 (72, 364)	143.5 (49, 294)
	Min to max	6 to 396	7 to 447
Reasons for discontinuation n (%)	Lack of efficacy	8 (12.1)	5 (7.6)
		QTP	RI
		N=66	N=66
	Side effects	9 (13.6)	6 (9.1)
	Metabolic side effects	0 (0.0)	0 (0.0)
Veight (kg)	n	66	66
	Mean (SD)	77.0 (19.2)	78.6 (20.0)
BMI (kg/m²)	n	66	63
own (rg/m)	_		

N Number of patients in treatment group. n Number of patients. NA Not applicable. QTP Quetiapine. Q1 Lower quartile. Q3 Upper quartile. RI Risperidone. SD standard deviation.

Note: Percentages calculated as 100*n/N.

Studies included D1441L00002
Table ID: C2101_DEM_3B_RI_Program: \Demo tables\Program\MakeDemoTable.sas. User: kjwm515. Data created: 21MAY2008:12:59.
Table created: 21MAY2008:12:59.

Subjects with first episode psychosis and antipsychotic naïve in controlled and uncontrolled trials

Table 209: Baseline demographics (naïve subjects, quetiapine-treated, all trials)

		QTP
		N=5021
к n (%)	Male	1927 (38.4)
	Female	3094 (61.6)
ge (years)	n	5021
	Mean (SD)	40.7 (12.5)
ace/ethnicity n (%)	White	4034 (80.3)
	Black	654 (13.0)
	Asian	127 (2.5)
	Hispanic	157 (3.1)
	Mixed, Other	48 (1.0)
	Not specified	1 (0.0)
reatment indication n (%)	Dementia	0 (0.0)
	Schizoaffective	8 (0.2)
	Schizophrenia	118 (2.4)
		QTP
		N=5021
	Bipolar mania	0 (0.0)
	Bipolar depression	0 (0.0)
	Bipolar mixed, etc.	0 (0.0)
	Major depressive disorder (MDD)	2486 (49.5)
	Generalized anxiety disorder (GAD)	2339 (46.6)
	Others	0 (0.0)
	Healthy volunteers	70 (1.4)
dal dose (mg)	n	5019
	Mean (SD)	170.1 (113.6)
posure (days)	n	5021
	Median (Q1, Q3)	56.0 (31, 103)
	Min to max	1 to 503
sons for discontinuation n (%)	Lack of efficacy	33 (0.7)
	Side effects	893 (17.8)
	Metabolic side effects	29 (0.6)
ight (kg)	n.	5014
	Mean (SD)	81.1 (21.3)
MI (kg/m²)	n	5010
	Mean (SD)	28.6 (7.1)

Sumber of patients in treatment group. n Number of patients. NA Not applicable. NA Not applicable. QTP Quetispine. Q1 Lower quartile. Q3 Upper quartile. SD standard deviation. e: Percentages calculated as 100*n/N. dies included D1441C00112, D1441L00002, D1448C00001, D1448C00002, D1448C00003, D1448C00004, D1448C00005, D1448C00009, D1448C00009, D1448C00017, D1448C00012, D1448C00017, D1448C00017

127

8.2 List of clinical trials included in the analyses for the metabolic submission

Table 210:List of Metabolic clinical trials

State Stat																	
Processor Proc	Study	Indication	Quaftanina N	Quafiscina Doca Panca	Discabo N	Comparator	Comparator N	Total Cholectero	UDI Cholesterol	LDI Cholesterol	Trickenselder	Olynose	Ubito	IIIA minagana	Weinst	Duration Controlled	Duration Uppost
Contact True Parametry P	otacy	indication	cauecapine N	Queciapine Doce Mange	PIAGEDO N	Comparator	Comparator N	Total Cholestero	HDE UNDIRECTOR	LUC Choisetero	Inglycenaec	CHROCES	MBA10	UA GIUSOGO	weight	Controlled	Duragon Oncons
Contact True Parametry P																	
Company Comp								E no leave blank	If no leave blank		If no leave blank	If no leave blank	Hemodobin	Urine alunose			
Transfer Part Column Part P								R (randomized)			R (randomized)	R (randomized)	A1o, if no		If no leave	Duration	Duration
### PART CORDING TO THE PA								NF (non-facting)	NF (non-facting)	(non-fasting) F	NF (non-fasting)	NF (non-facting)	leave blank. If	f blank. If yes			
Part	Name/Number	Trial Indication	# receiving QTP	Range of doses used	none leave blank)	Name all comp. used	# receiving comp	F (facting)	F (fasting)	(facting)	F (facting)	F (facting)	yes enter Y	enter Y	yes enter Y	weeks	weeks
Part																	
### 1985 1985																	
STATE STAT																	
Company Comp		Healthy volunteers	5	25 mg	2		T	NF			NF	NF		NF	Y	2 weeks	$\overline{}$
STATE STAT	204636/0008			low dose - up to 250											L.		
STATE STAT	507711 /0004		high dose = 96		96									-	Y		
Company Comp	50771L/0008	Schizophrenia	54	75-750 mg	55			NF				NF			Ý	6 weeks	-
Proceedings 19	5077IL/0013																$\overline{}$
Section Sect		Chronic/Sub-chronic	200	75.750		Lininandalai									~		c
Section Sect	50771L/0041	Schlzophrenia	448	50-800 mg	84	Haluperioui	32	NF	NF	NF	NF	F		1	Ý	6 weeks	o weeks
Section Sect	5077IL/0104	bi-polar	101	50-400mg	100	Haloperidol	98					NF			Y	12 weeks	
Consequence				50-800 mg			67		_	_		NF			Y		\vdash
March Statistical Process St. 120 St.		Bipdiar Depression	394 IR: 123	25 mg - 600 mg	169			-	-	-	-	r			Y	8 weeks	+
CHARLOTTON Note School N		acute schlzophrenia	XR: 347	XR: 400-800	118		L	F	F	F	F	F	Y	Y	Y	6 weeks	<u> </u>
15th public prises 15th pu	D1444C00133			IR: 800													
\$1.5 mass processor \$2.5 mass processor \$2.5		acute schizophrenia	XR: 342	XR: 400-800	117			F	F	F	F	F	Y	Y	Y		+
23 (15 m the exular process)		1	518 in acute phase,				136 in acute		I	I	I	I		I	1	Acute Phase;	
Charles			301(from the acute				phase, 74 in								1	26-52 weeks -	1 1
Charles	0.4.47000004	Finales Fancesian	phase) in continuation				continuation	l_	_	_	_	_				Continuation	1 1
Add Section Add	D1447C00001	Bipolar Depression	pnase	SUU-BUU Mg	pnase	Lienum	pnase	-	-	-	-	-	Y	*	T	Phase	
April Apri	D 1411 000101														1		1 1
State Stat															1		1 1
Solid State			487 in acute phase,		129 (NOT from the										1		1 1
Check Control Check Ch			phase) in continuation		acute phase) in		121in acute								1		1 1
Check Control Check Ch		Bipolar disorder	phase	50-600 mg	continuation phase	Paroxetine			NF	NF	NF	F	Y	Y	Y	49 weeks	3 weeks
044800000 MCO 304 150 r 150	D1447C00135			50-600 mg				NF	NF	NF	NF	F	Υ		Y		1 weeks
DEFAULT COLOR SC SC SC DESCRIPTION SE F F F F F F F F F	D1448C0001			50, 150 or 300mg		Duloveline	149	F	F	F	F	F	Y	Ÿ	Ÿ		
CHARGODIA NCD 157 150 or 200 mg 156 Exclasorant (10 mg) 157	D1448C0003		152	150 or 300 mg			170	F	F	F	F	F	Ÿ	Ÿ	Ÿ		-
0.440 0.40 0.40 798 50.180 rations 234 50.180 rations 234 50.180 rations 235 50.180 rations 235 50.180 rations 235 235 50.180 rations 235 235 50.180 rations 235 2	D1448C0004	MDD	157	150 or 300 mg	155	Escitalopram (10 mg)	156	F	F	F	F	F	Y	Y	Y	8 Wieeks	
DIAMOCROPION DIAMOCROPION DIAMOCROPION Sediagopan 10 mg P P P P P V V Sueets		Healthy volunteers	57	150 mg (8R)	224			NF E	NF E	NF E	NF E	F	~	Y	Y		- 9
District	D1448C00010		700					F	F	F	F	F	Ÿ	Ÿ	Ý		
Depression 139	D1448C00011	GAD	438	50, 150 mg	217	Paraxetine 20 mg/day	215	F	F	F	F	F	Y	Ÿ	Ÿ		
### Adult subject in Companies ### F F F F F F F F F F F F F F F F F	D144CC00002		420	VD- 303	430			-	_	-	_	-	~				1 1
Adult eubject in Comparator—Controlled Trials 200830007 SCH2ophrenia 10175 mg/750 mg Chlorofomazine 100 NF	D144CC00004	Depression	139	AR: 300	138			-	-	-	-	-	*		T	o weess	
Comparator Controlled Trials 101 75 mg/750 mg		Acute Bipolar Mania	151	XR: 400-800	160			F	F	F	F	F	Υ		Υ	3 weeks	
Comparator Controlled Trials 101 75 mg/750 mg																	
Comparator Controlled Trials 101 75 mg/750 mg	Adult subject to																
Controlled Trials Schaphrenia 101 75 mg / 50 mg																	
Single-principle Single-prin																	
Single-principle Single-prin		Schlzophrenia	101	75 mg-750 mg		Chlorpromazine	100					NF			Υ	6 weeks	
Treatment-resistant Springer	5077IL/0031	1		5 segments: AlPlaceto			I		I	I	I	I		I	1	1	
Palace of place Palace P				for 1 wk; B) 40 molday											1		
W.C.Di double-blind fleed dose 600-1020 mystay for 5 large fleed one 600-1020 mystay fleed fleed one 600-1020 mystay fleed fleed one 600-1020 mystay fleed fle				haloperidol for 4 wks; C)											1		1 1
Construction Cons				Placebo single blind for 1											1		1 1
Treatment-registant Treatment-registant Softwarderents Softwardere															1		1 1
Schlaschrenia 19 suljects molecular 19 suljects molecular 17 15 17 15 18 17 15 18 17 15 18 18 17 18 18 18 18 18				for 6 wk; E) double-blind											1		1 1
Softward				flexible dose: 75-1500													1 1
Softward	60770 (0064	Schlzophrenia Schlzophrenia	18 subjects	mg/day for 4 wks		Chloropromozine	440					NF		-	Y	16 weeks	2 washe
Schkapphrenia 258 75-750 Halioperidol 52 NF Y Sweeks	5077ID0054 5077ID0013	ge-augmenu	- "	20 030 mg		Section of Management of Section 1988	113	1			 	 	 	 	ř –	- Heens	
Softward Chronic Subscription Chronic Chr							I		I	I	I	I		I	1	1	
Chronic@ub-chronic Schtzophrenia 221 50-900 Haloperidol 227	60770 (0014	Schlzophrenia	258	75-750		Haloperidol	52					NF		-	Y		6 weeks
Schapphenia 22 50-900 Haloperiol 227	5077ID0014	Chronici8ub-chronic					I		I	I	I	I		I	1	1	
S071U0016 Chronic Sub-chronic 250 75-600 Haloperidol 41 NF Y Up to 52 weeks 5071U0050 Schtaophrenia 250 75-600 mg Haloperidol 188 Y 51 weeks 1 week 5071U0050 Schtaophrenia 143 50-600 mg Haloperidol 145 Y 7 weeks 1 week 1 we			22	50-800		Haloperidol	227								Y		6 weeks
Schkoohrenia 250.77±500 Halipperioli 4 NF Y Up to 52 weeks Schkoohrenia 193.55±500 mg Halipperioli 188 NF Y 51 weeks 1 week 50771U0502 Schkoohrenia 143.55±500 mg Halipperioli 145 NF Y 7 weeks 1 week 1 wee	5077IL/0015																
50771U050 Schkophrenia				75.600		Lininandalai		I	I	I	I	N.E		I		1	um to 53 master
	50771L/0050	Schizophrenia	193	50-600 mg			41					INF		+	Y	51 weeks	1 week
90771U0104 bi-polar 101 50-400mg 100[Haloperidol 98 NF Y 12 weeks	50771L/0052	Schlzophrenia	143	50-600 mg		Haloperidol	145								Υ	7 weeks	
H+15-61 Scrizzopirenia 10cj 50-600 mg 97 Haloperidol 1.5-18 mglday NF Y Sweeks	50771L/0104		101	50-400mg			98					NF			Υ		
	H-15-31	Schizophrenia	100	150-600 mg	97	Haioperidol 1.5 -18 mg/day	L	NF		L	L				Υ	B weeks	

Study	Indication	Quetiapine N	Quetiapine Doce Range	Placebo N	Comparator	Comparator N	Total Cholectero	HDL Cholecterol	LDL Cholecterol	Triglyperides	Glucose	HbA1o	UA glucose	Weight	Duration Controlled	Duration Uncor
Clinical Trial Name/Number	Trial Indication	# receiving QTP	Range of doses used	# receiving Ptic (if none leave blank)	Name all comp. used	# receiving com;	R (randomized) NF (non-facting)	If no leave blank R (randomized) NF (non-facting) F (facting)	(randomized) NF	If no leave blank. R (randomized) NF (non-facting) F (facting)	R (randomized)		if no leave f blank. If yes	If no leave	oontrolled in	Duration uncontrolled in weeks
D1441C00125	schlzophrenia (Glucose-Tolerance)	168	8 400-800		Olanzipine Risperidone	169 173	NF	NF	NF	NF	F	v	v	v	24 weeks	
D1441L00002	(Grande Farmania)		1400 0000		respectations							i		ľ	24 1122112	
	First Episode Psychosis	134	4 100-800 mg		Olanzapine, Risperidone	133 (Olanzapine) 133 (Risperdone)	F	F	F	F	F	Y		Y	up to 52 weeks	
5077IL/0053	Schlzophrenia	200	50-600 mg		Risperidone	208								Y	9 weeks	1 week
5077US/0004	Schizophrenia or other selected psychotic disorders	550	0 25 mg - 200 mg		Risperidone	173								Y	16 weeks	
5077US/0043	Schlzophrenia	338	8 50 mg - 800 mg		Risperidone	334	F	F	F	F	F			Υ	8 weeks	
All Adult quetiapine- treated subjects, controlled and uncontrolled		I.e.	19				lue.			lur.	lur.		lue.	be	Dunner	
204636/0003 204636/0008	Healthy volunteers	low dose = 94	25 mg low dose = up to 250	-			NF			NF	NF		NF	Y	2 weeks	
	Schlzophrenia	high dose = 96	high dose = 75-750 mg	96			NF			NF	NF			Υ	6 weeks	
50771L/0004 50771L/0005	Schlzophrenia	8	25 to 250	4			NF			NF	NF			Υ	3 weeks	
SO//ID000S	Schlzophrenia, BP with manic features, Delusional disorder, brief reactive psychosis, Schlzophreniform, Schlzopfective,															
	Induced Psychotic disorder, psychotic disorder NOS		8 50 to 500 mg				NF			NF				Y		4 weeks
50771L/0008	Schlzophrenia	54	75-750 mg	55			NF			NF	NF			Υ	6 weeks	
50771L/0008 50771L/0012	Schlzophrenia	13	3 50 - 450 mg								NF					2 weeks
	Chronic/Sub-chronic Schlzophrenia	618	8 50-450											Y		6 weeks
5077IL/0018 5077IL/0020	Schlzophrenia schlzophrenia,	41	1 50-750								F			Y		2.5 weeks
50/7100020	schizoaffective disorder, bipolar disorder	12 men (single center)	25-250 mg		Two 1-g doses on Days 10 and 21						_			~		1.5 weeks
50771L/0024e	schizophrenia, schizoaffective disorder, bipolar	12 High (stripe center)	as a sorry		unc 1											1.5 mccns
50771L/0024b	disorder schizophrenia, schizoaffective	8 men (single center)	25-250 mg								F			Y		2.5 weeks
	disorder, bipolar disorder	8 men (single center)	25-250 mg								F			Y		2.5 weeks
50771L/0027	schizophrenia, schizoaffective disorder, bipolar			25 mg TID for Days												
50771L/0029	disorder Schlzophrenia	10 subjects 8 subjects	25-250 mg 25-150 mg	13-25				-			r		-	Y		2 weeks 4 weeks
5077IU0033	Subchronic or chronic															
50771L/0035	schizophrenia Subchronic or chronic	10 maie subjects	50-750 mg											T		7 weeks
	schizophrenia, schizoaffective disorder, bipolar	32 male subjects (11	25-220 ava								-					3 weeks
50771L/0036	disorder schizophrenia, schizoaffective disorder, bipolar	withdrew)	25-200 mg													J Meens
	disorder	14 male subjects	25-300 mg											Υ		3.5 weeks
50771L/0087	schizophrenia, schizoaffective disorder, bipolar															
5077IL/0041	disorder Schlzophrenia	448	3 50-300 mg 50-800 mg	84			NF	NF	NF	NF	-			Y	6 weeks	3 weeks
5077IL/0044	schizophrenia or schizophrenia or schizoaffective	770	20 000 Hig	54				int.	100	int.	-			ľ	o weeks	

															Duration	
Study	Indication	Quetiapine N	Quetiapine Dose Range	Placebo N	Comparator	Comparator N	Total Cholectero	HDL Cholecterol	LDL Cholecterol	Triglyperides	Glucose	HbA1o	UA glucose	Weight	Controlled	Duration Uncont
Cilnical Trial Name/Number	Trial Indication	# receiving GTP	Range of doses used	# receiving Pbo (if none leave blank)	Name all comp. uced	# receiving com	R (randomized) NF (non-facting)	If no leave blank R (randomized) NF (non-facting) F (facting)	if no leave blank, R (randomized) NF (non-facting) F (facting)	If no leave blank. R (randomized) NF (non-facting) F (facting)	If no leave blank, R (randomized) NF (non-facting) F (facting)	A1o. If no leave blank. If	Urine glucose if no leave f blank. If yes enter Y	If no leave blank, if yes enter h	oontrolled in	Duration uncontrolled in weeks
50771L/0045	Schlzophrenia,															
	Schlzpaffective, Bipolar Disorder	1	1 25-750 mg								NF			Y		3 weeks
5077IL/0047	Schlzophrenia,															
	Schizpaffective, Bipolar Disorder	1:	3 25-150 mg								NF			Y		3 weeks
50771L/0050	Schlzophrenia	19.	3 50-600 mg		Haloperidol	188								Y	51 weeks	1 week
50771L/0056	schizophrenia or schizoaffective															
	disorder		7 50-800 mg		Usual care	218	8							Υ		53 weeks
50771L/0081	schizophrenia, schizoaffective disorder or bipolar disorder	50 in drug-switching phase (period A), 30 in drug withdrawal phase (period C)	50-600 mg	26							NF		,	v		16 weeks
50771L/0062	psychasts with	generally											i .	i –		
5077IL/0065	parkinsonism schizophrenia.	2	9 25-800 mg											Y		24 weeks
30.710.000	schizpaffective disorder or bipolar disorder	3	9 50-600 mg	20 (Quetlapine+Placeb o)	Haloperidol	19 (Quetiapine+Halo peridol)							Y	Y		2 weeks
50771L/0098	schizophrenia, schizoaffective disorder or bipolar disorder		5 50-800 mg											v		5 weeks
50771L/0072	bi- polan/schizophrenia/s chizo affective		5 25-100 mg											Ţ		2 weeks
50771L/0084	healthy volunteers	3	2 25-150mg													4 weeks
5077IL/0086	schlzophrenia	1	2 50-800mg											У		3 weeks
50771L/000/3	schizophrenia, bi- polar, schizoaffective	1	3 150-750mg											Y		10 days
50771L/0097	bi- polar/schizophrenia/s chizo affective	2	4 150-300mg											Y		1 week
50771U0107 50771U0109	schlzophrenia	50	9 300-790mg											Υ		12 weeks
50771L/0118	polan/schizophrenia/s chizo affective Schizaffective	3	5 150-800 mg											Y		2 weeks
	disorder and schizophrenia GAD	708	8R - 50 mg - 400 mg 0 IR - 300 mg	234			_	_	-	_	_			Y	Daha	2 weeks
D1448C00009 D1448C00010	GAD	705	50, 150 ar 300mg 150 ar 300 mg	254	Escitalopram (10 mg)		F	F	F	F	F	Y	Ÿ	Y	9 weeks 9 weeks	
D1448C00011	GAD	438	50, 150 mg	217	Paroxetine 20 mg/day	215	F	F	F	F	F	Y	Y	Y	9 weeks	
D144CC00002	Acute Bipolar Depression	139	XR: 300	138			-		=	_	=	v		v	8 weeks	
D144CC00004							_	_	_		_			i.		
204838/0007	Acute Bipolar Mania Schlzophrenia	151	XR: 400-800 1 75 mg-750 mg	160	Chlorpromazine	100	F	F	F	F	NF.	Y		Y	3 weeks 6 weeks	
5077IU0031	Treatment-resistant	18 subjects	Segments: AlPlacebo for 1 wk; Bl 40 mg/day haloperidol for 4 wks; C) Placebo single billind for 1 wk; D) double-billind fixed dose 600-1200 mg/day for 6 wk; E) double-billind fexible dose; 75-1500 mg/day for 4 wks		Chloropromodne		NF				NF			Y	16 weeks	
50771L/0054	Schlzophrenia		7 50-600 mg		Chlorpromazine	119								Υ	8 weeks	2 weeks
50771L/0013	Chronic/Sub-chronic Schlzophrenia	258	75-750		Haloperidol	52	2				NF			Y		6 weeks
50771L/0014	Chronic/Sub-chronic															
50771L/0015	Schlzophrenia	22	1 50-800		Haloperidol	227	,							Y		6 weeks
	Chronic/Sub-chronic Schlzophrenia	26	75-600 3 50-600 mg		Haloperidol	41					NF			Y		up to 52 weeks
50771L/0050	Schlzophrenia	19.	3 50-600 mg		Haloperidol	188								Y	51 weeks	1 week
50771L/0052 50771L/0104	Schlzophrenia bi-polar	101	50-600 mg 50-400mg	400	Haloperidol Haloperidol	145					NE			Y V	7 weeks 12 weeks	1 week
H-15-31	Schlzophrenia		0 50 -600 mg	97	Haloperidol 1.5 -18 mg/day		NF							Y	8 weeks	
D1441C00125	schizophrenia		400.000		Olanzipine	169	NF	NE	NF	NF	-	v			24	
	(Glucose-Tolerance)	16	400-800	<u> </u>	Risperidone	173	NF	NF-	NF	NF	r	Y	Y	۲	24 weeks	

Epiloode thosis apphrenia apphrenia or r pelected hortic disorders apphrenia arr Cepression apphrenia arr Cepression apphrenia schizophrenia, Sc affective disorder, schizophrenia, Sc affective claorder, schizophrenia, Sc affective claorder, schizophrenia, Sc affective claorder, schizophrenia, Sc affective claorder, schizophrenia ar Mania) apphrenia	200 550 550 338 342 165 29 18 327 (Open-label stabilization) 94 (Randomized) R: 133	Range of doses used 100-800 mg 50-800 mg 25 mg - 200 mg 50-800 mg 100-1200 mg 100-1200 mg 100-1200 mg 100-800 IR: 200-400 SR-F: 400 SR-F: 50, 400 JR: 400-800 IR: 400-800		Name all comp. used Clanzapine. Risperidone Risperidone Risperidone Risperidone		NF (non-facting) F (facting)	R (randomized)	(randomized) NF	R (randomized)	if no leave blank, R (randomized) NF (randomized) NF (non-fasting) F (fasting)	A1o. If no leave blank. If		yes enter Y	oontrolled in	Duration uncontrolled weeks
chosis chosis zophrenia zophrenia zophrenia zophrenia zophrenia sor selected chotic disorders zophrenia sor Depression zophrenia sor Depression zophrenia sor Econder, sortizophrenia, so sortizophrenia, so sortizophrenia, so sortizophrenia, so sortizophrenia, so sortizophrenia zophrenia sortizophrenia zophrenia sortizophrenia sortizophrenia sortizophrenia	200 5500 5500 5500 338 342 165 29 327 (Open-label stabilization) 94 (Randomized) IR: 123	\$0-500 mg 25 mg - 200 mg 50 mg - 800 mg 25 mg - 600 mg 100-1200 mg 100-1200 mg 100-800 IR: 200-400 SR-F: 400 SR-F: 50, 400 XR: 400-800 XR: 400-800		Risperidone Risperidone	133 (Risperidone) 208 173	F	F	F F	F F	F F	Y	Y	Y Y Y Y	weeks 9 weeks 16 weeks 8 weeks 8 weeks	
azophrenia zophrenia or r selected hotic disorders azophrenia sar Depression zophrenia sar Depression zophrenia sar Depression zophrenia sar Centrophrenia sar Mania) schizophrenia sar Mania) schizophrenia sar Mania) zophrenia se schizophrenia	200 5500 5500 5500 338 342 165 29 327 (Open-label stabilization) 94 (Randomized) IR: 123	\$0-500 mg 25 mg - 200 mg 50 mg - 800 mg 25 mg - 600 mg 100-1200 mg 100-1200 mg 100-800 IR: 200-400 SR-F: 400 SR-F: 50, 400 XR: 400-800 XR: 400-800		Risperidone Risperidone	208	F	F	F	F	F	Y	Y	Y Y Y	9 weeks 16 weeks 8 weeks 8 weeks	
r selected hotic disorders apphrenia sar Cepression apphrenia or apphrenia or apphrenia or apphrenia or apphrenia,8c affective disorder, lar (Mania) Schlapphrenia,8c affective disorder, lar (Mania) apphrenia e schlapphrenia e schlapphrenia e schlapphrenia	550 338 342 165 29 327 (Open-label stabilization) 94 (Randemized) IR- 123	25 mg - 200 mg 50 mg - 800 mg 25 mg - 600 mg 100-1200 mg 100-800 IR: 200-400 8R-R: 400 8R-R: 400 SR-R: 50, 400 XR: 400-800		Risperidone		F	F	F	F F	F	Y	Y	Y Y Y	8 weeks 8 weeks	3.5 weeks
azophrenia lar Depression azophrenia or azophrenia or azoffective der schizophrenia,8c affective claorder, lar (Mania) azophrenia,8c affective claorder, lar (Mania) azophrenia e schizophrenia e schizophrenia e schizophrenia	338 342 165 29 327 (Open-label stabilization) 94 (Randomized) IR 123 IR 147	50 mg - 800 mg 25 mg - 600 mg 100-1200 mg 100-800 Fi: 200-400 SR-F: 400 SR-F: 400 XR: 400-800 XR: 400-800				F	F	F	F	F	Y	Y	Y Y	8 weeks 8 weeks	3.5 weeks
lar Depression zophrenia or zophrenia or zophrenia or zophrenia se der der schlapphrenia,8c affective disorder, lar Mania) schlapphrenia,8c affective olsorder, lar Mania) apphrenia e schlapphrenia e schlapphrenia	165 29 327 (Open-label stabilization) 94 (Randomized) IR-123	25 mg - 500 mg 100-1200 mg 100-800 IR: 200-400 SR-R: 400 SR-R: 400 SR-R: 50, 400 XR: 400-800				F	F	F	F	F	Y	Y	Ý Y		3.5 weeks
zoaffective ridde schizophrenia,8c affective olsorder, lar Mania) Schizophrenia,8c affective olsorder, lar Mania) zophrenia e schizophrenia e schizophrenia	29 327 (Open-label stabilization) 94 (Randomized) R: 123 XR: 347	100-800 IR: 200-400 SR-F: 400 SR-6: 400 SR-T: 50, 400 XR: 400-800				F	F	F	F	F	Υ	Y	Y	9.5 weeks	3.5 weeks
schizophrenia, 3c affective disorder, isr Mania) Schizophrenia, 3c affective disorder, isr Mania) zophrenia e schizophrenia	29 327 (Open-label stabilization) 94 (Randomized) R: 123 XR: 347	100-800 IR: 200-400 SR-F: 400 SR-6: 400 SR-T: 50, 400 XR: 400-800							-	-	1		,	3.5 WEEKS	
affective disorder, lar Mania) Schizophrenia,Sc affective disorder, lar Mania) zophrenia e schizophrenia	327 (Open-label stabilization) 94 (Randomized) IR: 123 XR: 347	IR: 200-400 SR-F: 400 SR-G: 400 SR-T: 50, 400 XR: 400-800									l				
Schlzophrenia,8c affective disorder, (ar Mania) zophrenia e schlzophrenia	327 (Open-label stabilization) 94 (Randomized) IR: 123 XR: 347	IR: 200-400 SR-F: 400 SR-G: 400 SR-T: 50, 400 XR: 400-800								NF					5.2 weeks
affective disorder, iar Mania) zophrenia e schlzophrenia	327 (Open-label stabilization) 94 (Randomized) IR: 123 XR: 347	SR-F: 400 SR-S: 400 SR-T: 50, 400 XR: 400-800													J.L. HILLIA
zophrenia 9 e schizophrenia 3 e schizophrenia 3	327 (Open-label stabilization) 94 (Randomized) IR: 123 XR: 347	XR: 400-800								=					3 weeks
e schizophrenia 2 ie schizophrenia 2	R: 123 XR: 347		103			-	-	-	-	-	v				52 weeks
e schizophrenia 2 e schizophrenia 2	XR: 347	HTS, MODE	103			-	-	-	-	-	Ť	,	Y		52 WEEKS
e schizophrenia	R: 116	XR: 400-800	118			F	F	F	F	F	Υ	Υ	Υ	6 weeks	
	XR: 342	IR: 800 XR: 400-800	117			=	=	=	=	=	v	v	v	6 weeks	
zoaffective														UNCLIS	
- 1	R(4 wk. OL run-in): 497 R: 166	XR: 300-800 IR: 400-800								F	Y		Y		1 week
		XR: 400-800 XR: 400-800				F	F	F	F	F	Υ	Y	Υ	6 weeks	4 weeks 12 weeks
	518 in acute phase, 301(from the acute phase) in continuation	300-600 mg	129 in acute phase, 165 in continuation phase	Lithium	136 in acute phase, 74 in continuation phase	F	F	F	F	F	Y	Y		26-52 weeks - Continuation	12 Weeks
Schlzophrenia,Sc affective disorder, lar Mania)	18	SR-F: 400 SR-S: 400								F		v	v		3 weeks
1	237(from the acute phase) in continuation	50-600 mg	124 in acute phase, 129 (NOT from the placebo group in acute phase) in continuation phase.	Parmetine	121in acute	NE	NE	NE	NF	F	v	,	v	49 weeks	3 weeks
		50-600 mg				NF	NF	NF	NF	F	Y		Y	7 weeks	1 weeks
lar Maintenance	404	300-800 mg	404				F	F	F	F	Υ	Y	Y	Randomized - up to 104	OL - up to 24 v
	536	50, 150 or 300mg	181	Didantina		F	F	F	F	F	Y	Y	Y		-
	162	150 of 300 mg			149	=	r e	E	F	r e	v	v	v		
					156	F	F	F	F	F	Ÿ	Ÿ	Ÿ		
thy volunteers 5	57		122	, and		NF	NF	NF	NF	F	i -	Y			-
	Randomized QTP = 391	50, 150 & 300mg	385			E	F	F	F	E	Y	Y	Υ		up to 78 weeks
	/US	50, 150 or 300mg				F	r	F	-	-	Y	7	Y		
	420	150 of 300 mg	247	Escraiopram (10 mg)	245	r c	r c	-	F	r e	Y V	T V	Y V		
		su, rau mg	21/	rerusetine zu mgraay	215	-	-	-	r	-			'	2 WEEKS	
, lì	Randomized QTP = 216	50, 150 & 300mg	216		I	F	F	F	F	F	Υ	Υ	Y	12-18 Weeks	4 -8 Weeks
thy volunteers						NF	NF	NF	NF	F		Y	Υ		1 week
skar d	Depression apphrenia, ac the disorder, Mania) disorder disorder Maintenance volunteers	200 200	301 (from the acute phase) 100 - 100 mg 100 m	301 from the acute phase 129 in acute phase 1	301 (from the soute 129 in south phase, 129 (NOT from the placeto group in south phase) 18 SR-T; 50, 400 124 in south phase, 129 (NOT from the placeto group in phase) in continuation phase 129 (NOT from the placeto group in south phase) 129 in south phase) 129 in south phase 129 (NOT from the placeto group in south phase) 129 in south phase 129 (NOT from the placeto group in south phase) 129 in south phase 129	301 from the acute phase 128 in acute phase 129 in acute phase 1	301 (from the acute phase) 129 in acute phase, 129 in acute phase, 129 in acute phase, 129 in acute phase 129 in acute phas	301 (from the soute 129 in acute phase, 129 in acute phase, 129 in acute phase, 129 in acute phase, 129 in acute phase 12	301 from the acute 129 in acute phase, 129 in acute phase phace group in acute phase	301 (from the soute 129 in acute phase, 129 in acute phase,	23 in acute phase 129 in a	129 in acute phase 129 in	129 in acute phase 129 in	139 in acute phase, 139 in acute phase,	S18 in acute phase, 30 (from the acute phase, 30 (from the acute phase) 129 in acute phase, 165 in confinuation phase 165 in confinuatio

Pediatrio and Adolescent Subjects in Placebo- Controlled Trials																
	Pediatric															
D1441C00112	Schlzophrenia	147	400 or 800 mg	75			F	F	F	F	F	F		Υ	6 weeks	
D1441C00112 D1441C00149	Pediatric Bipolar				, and the second	The state of the s										
	Mania	193	400-600	91			F	F	F	F	F	Y	Y	Υ	3 weeks	

															Duration	
Study	Indication	Quetiapine N	Quetiapine Dose Range	Placebo N	Comparator	Comparator N	Total Cholectero	HDI Cholecterol	LDL Cholecterol	Triciunaridas	Glucose	HbA1o	UA glucose	Weight	Controlled	Duration Unconf
0.20)	maroacon	чини при при при при при при при при при пр	Guedapino Doco Range	FIAUGUU N	Comparator	Comparator N	Total Cholostero	TIDE CHOICEISTO	LUC CHOISEASION	Inglytoniace	010000	INDA IO	UA GIBOOG	ssoid ir	Commona	Daragon oncom
									If no leave							
							If no leave blank	if no leave blank	blank, R	If no leave blank.	if no leave blank.	Hemoglobin	Urine glucose.			
							R (randomized)	R (randomized)	(randomized) NF	R (randomized)	R (randomized)	A1o. If no	If no leave	If no leave	Duration	Duration
Clinical Trial				# receiving Ptio (if			NF (non-facting)	NF (non-facting)	(non-facting) F	NF (non-facting)	NF (non-facting)	leave blank, h	f blank. If yes	blank, If	controlled in	Duration uncontrolled in
Name/Number	Trial Indication	# receiving QTP	Range of doses used	none leave blank)	Name all comp. uced	# receiving comp	F (facting)	F (facting)	(facting)	F (facting)	F (facting)	yes enter Y	enter Y	yes enter 1	weeks	weeks
														,	•	
Pediatrio and Adolescent		7														
Subjects in Comparator	l															
Trials	none															
•	•	-														
All Pediatrio and																
Adolescent Quetiapine-																
treated Subjects																
Controlled and																
Uncontrolled																
D1441C00150	Schlzophrenia or				1		l_	_	_	L	l_			L.	1	
	Bipolar Mania	(Open label) 380	200-800				٢	•	٢	٢	F	Y	Y	Y	_	26 weeks
204636/0007	Schlzophrenia	101	75 mg-750 mg		Chlorpromazine	100					NF			Υ	6 weeks	
5077IL/0038	schizophrenia,	1				1	I		1	I		1	I	1	1	1
1	schizophreniform disorder,				I	1	I		1	I		1	I	1	I	1
		1				1	I		1	I		1	I	1	1	1
	schizoaffective				1							1		1	1	
1	disorder, major depressive disorder,				I	1	I		1	I		1	I	1	I	1
1	bipolar I and II	1	1	1	I	1	I		1	I	I	1	1	1	1	1
1	disorder	10 subjects	50-800 mg		I	1	I		1	I		1	I	v	I	3 weeks
50771L/0107	schizophrenia	TU SUDJECTS	300-790mg											v		12 weeks
D1441C00028	Schlzophrenia	30.	300 mg - 750 mg	<u> </u>	Risperidone	34					F	+		v		2 weeks
Distriction	Pediatric		July 11g - 7 July		Propertions									<u> </u>		Z WCC12
D1441C00112	Schlzophrenia	147	400 or 800 mg	75			E	=	F	=	F	E		v	6 weeks	
D1441C00149	Pediatric Bipolar	141	400 CI OUC IIIg											 	o weeks	
	Mania	193	400-600	91			F	F	F	F	F	Y	Y	Y	3 weeks	
D1441L00002														i -		
					1							1		1	1	
	First Episode				1	133 (Olanzapine),	1					1		1	up to 52	
	Psychosis	134	4 100-800 mg		Clanzapine, Risperidone	133 (Risperidone)	F	F	F	F	F	Υ		Y	weeks	
•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•
Subjects with first																
episode psychosis and																
antipoyohotio-naïve in																
placebo controlled trials																
	Pediatric	T	T	T	T	T	T		T	T	T T	T	Т	1	T	T
D1441C00112	Schlzophrenia	445	7 400 or 800 mg	75			-	-	-	-	-	-		~	6 weeks	
D1448C0001	MDD	536	50, 150 or 300mg	181			-	-	-	-	-	v			6 weeks	
D1448C0002	MDO	304	150 or 300 mg		Dulaxetine	149	Ē	-	Ē	F	F	v	÷	v	6 weeks	
D1448C0003	MDO	152	190 or 300 mg	157	e-e-dition to	140	F	F	F	F	F	Ý	Ý	ý	8 Weeks	-
D1448C0004	MDD	157	150 or 300 mg	155	Escitalopram (10 mg)	156	F	F	F	F	F	Ÿ	Ÿ	Ÿ	8 Weeks	
D1448C00008	Healthy volunteers	57	150 mg (8R)		germany and any		NF	NF	NF	NF	F	· -	Ÿ	v	2 weeks	-
D1448C00000	GAD	708	50, 150 or 300mg	234			F	F	F	F	F	Υ	Ÿ	Ý	9 weeks	
						•				•						
Subjects with first																
episode psychosis and																
antipsychotic-naïve in																
comparator controlled																
trials																
D1441L00002	I	1			I	1	I			I	I		1		1	
1					I		I		1	I		1	I	1		1
1	First Episode					133 (Olanzapine),			_				I	L	up to 52	1
	Psychosis	134	4 100-800 mg	<u> </u>	Clanzapine, Risperidone	133 (Risperidone)	F	F	F	F	F	Υ	<u> </u>	Υ	weeks	<u> </u>
was a standard of the second																
Subjects with first																
episode psychosis and																
antipsychotic-naïve in																
controlled and																
uncontrolled trials	Pediatric	T	T	T	T	T	T		Т	T	T	T	T	_	T	
D1441C00112	Pediatric Schlzophrenia	445	7 400 or 800 mg	75		1	le	=	E	l=	le	E	1	v	6 weeks	1
D1441L00002	оспадритена	141	HOU OF BUILDING	/5	 		-	-	-	-	-	-		<u>'</u>	o weeks	
C 1-4 1000002	I	1				1	I		1	I		1	I	1	1	1
1	First Episode				I	133 (Olanzapine),	I		1	I		1	I	1	up to 52	1
	Psychosis	424	4 100-800 mg		Olanzapine, Risperidone	133 (Risperidone)	F	F	F	F	F	Y	I	v	weeks	1
D1448C0001	Psychosis MDO	536	50, 150 or 300mg	181		. are prosperiorallic,	F	F	F	F	F	Y	Y	Ý	6 weeks	
D1448C0002	MDD	304	150 or 300 mg		Duloxetine	149	F	F	F	F	F	Υ	Y	Υ	6 weeks	
				-												

Study	Indication	Quetiapine N	Quetiapine Dose Range	Placebo N	Comparator	Comparator N	Total Cholectero	HDL Cholecterol	LDL Cholecterol	Triglyperides	Glucose	HbA1o	UA glucose		Duration Controlled	Duration Uncont
									If no leave							
							R (randomized)	if no leave blank. R (randomized)	blank. R (randomized) NF	R (randomized)	If no leave blank. R (randomized)	A1o. If no		If no leave	Duration	Duration
Clinical Trial				# receiving Ptic (if				NF (non-facting)			NF (non-facting)			blank. If	oontrolled In	uncontrolled in
	Trial Indication	# receiving QTP	Range of doses used	none leave blank)	Name all oomp, used	# receiving comp	F (facting)	F (facting)	(facting)	F (facting)	F (facting)	yes enter Y	enter Y	yes enter Y	weeks	weeks
D1448C0005		Open label only = 1078														
	MDD	Randomized QTP = 391	50, 150 & 300mg	385			F	F	F	F	F	Υ	Y	Υ		up to 78 weeks
	Healthy volunteers		150 mg (8R)				NF	NF	NF	NF	F		Y	Υ	2 weeks	0
D1448C00009	GAD .		50, 150 or 300mg	234			F	F	F	F	F	Υ	Y	Υ	9 weeks	
	gAD.		150 or 300 mg		Escitalopram (10 mg)		F	F	F	F	F	Υ	Y		9 weeks	
	GAD	438	50, 150 mg	217	Paroxetine 20 mg/day	215	F	F	F	F	F	Y	Y	Υ	9 weeks	
D1448C00012		Open label only = 792														
		Randomized QTP = 216		216			F	F	F	F	F	Y	Y	Υ	12-18 Weeks	4 -8 Weeks
	Healthy volunteers		50-300 mg (XR)				NF	NF	NF	NF	F		Y	Υ		1 week
50771L/0051	Schlzophrenia	450	50-800 mg											Υ		up to 156 weeks

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

Kavneet-Ripi Kohli-Chhabra 3/26/2009 11:11:37 AM MEDICAL OFFICER

Cara Alfaro 3/26/2009 01:44:03 PM PHARMACIST

Ni Aye Khin 3/26/2009 02:30:53 PM MEDICAL OFFICER