From: $\quad$ Melville, Margaret $G$
Sent:
Friday, May 24, 2002 12:43 PM
To: Izuishi, Koji; Mitani, Michiyo; Nakajo, Hirochika
Cc: Oldham, Alex; Brecher, Martin; Geller, Wayne; Fitton, Lesiey R; Bowen, Rebecca; Schwartz, Jack A; Sawai, Etsuko; Trumble, Sharon M; Lapp, Carrie
Subject:
Seroquel Hyperglycaemia -- proposed responses to MHLW -- Global Product Team comment to many issues!

## Atiachments:

0041 summary.doc; 0043summary.doc

Dear lzuishi-san, Mitani-san, Nakajo-san,
Our glucose document may of course be submitted to MHLW. We have also looked into the avallebility of other information. We have received replies from Richard Owen and Jeff Goldstein regarding the pharmacology of quetiapine as it reiates to weight gain. There is nothing of a strictly pharmacological character to tell the MHLW. We can note the differential effects on body weight and can cite the article below which demonstrates impared glucose metabolism with olanzapine and clozapine.

Evidence for insulin resistance in patients treated with clozapine or olanzapine (independent of differences in adiposity) were found by Newcomer et al (Arch Gen Psychiatry 2002; 59 (4);337-345). The exact cause of the insulin resistance is not known. It could be due to e.g. alterations in insulin receptor kinetics and signaling meohanisms or decreases in the number or half-lite of insuln-sensitive glucose transporters.

I know that you and Nakajo-san have questions about the history of gluose/diabetes worlwide, so I have provided you an update below.

## Glucose/Diabetes WorldWide Labelling History

As you know diabetes melitus is listed in the US Pl. This was done at the time of approval. On 1 May 2000, the FDA did send us a letter requesting information pertaining to this broad issue. Informally, they informed us that they were considering sending a letter to Lilly requesting a higher level of abeling precaution for diabetes for Zyprexa, but first wanted to see whether the other drugs in this atypical class also had a similar problem (might justify a class iabel precaution, in other words), and so, we assume Janssen received a similar letter.

Specifically, the FDA's letter requested more extensive safety information regarding new onset diabetes mellitus, nonketotic hyperosmolar coma, and diabetic ketoacidosis. Az sent a response dated 31 August 2000 . No labelling changes have been required.

The issue of glucose and diabetes for risperidone, clozapine, and quetiapine (anti-psychotic medications) was reviewed by the Pharmacovigilance Working Party of the EU CPMP (see attached) in June 2001. The following was the suggested language for Seroquel. The MEB, the Duth Health Authority and the RMS for the MR teritories, agreed with the language and asked that this be imposed.

Section 4 A Spend Warnimg and Precamions for Use
 Gethphe/Serocuel treathent, Appropmate cinical monitomg is adisable in dioetic potents ond in patients with risk foctors for the development of diabetes mehtus.

Secton 4.8 Undesinable aftects
 4 A Specid Whominge and precmtions fon use)

We sent in a review of ou in house data et that time, but the MEB insisted on the change. We agreed to amend the SmPC in a Type If valiation in November of 2001 with the above wording and this will be finalised shorty.


In February 2002 we received requests to change the SmPCs for haly, UK, and New Zealand. In Italy we have agreed to adopt the language because the language already exists in the labels of competitors so we feit it was unacceptable to argue our case.

The UK have attempted to defend not adding the language to the SmPC at this time, and have sent in the previous gucose document (originally submitted to MEB) with a recent date cutoff. It is the document you will send to MHLW. They have stated that we are awaiting data from Study 0041, which has fasted giucose levels, and will review the situation then.

New Zealand's Health Authority MedSafe had asked that we adopt different language to that agreed above. We therefore submitted the new glucose document to New Zealand. MedSaie have responced with new suggested wording, and we have reluctantly agreed, changing the MedSate Wording to the following, It is likely this will be zgreed in the next months.

Hypergycaemia, dabeles mellits, exaceration of perextho dabetes mellitus, and dabelo ketoacoosis, have ocoured very rarely wh cuetame therapy. The causa ascooraion wh quetapine has not been established.

Then, also wanted to provide you ho thoughts on the proposed amending of the JPI. We are also very pleased that you have agreed not to file a $J P$ amendment at the time you provide the follow-up to $M H$ LW on the diabetic coma death. In discussions in our team, we would like to propose the following plan:

- Supply follow up to initial AE report, glucose document, any mechanistic arguments (if we have anything further) on May 28. Advise MHLW that we are currently reviewing and discussing the situation, and considering the JP1 wording. Clearly discem ourselves from olanzapine. Glucose document, other AE tables already sent in, will support this bellet.
- confer with MHLW over the information. At this point it is lkely we will need to send an amended JPI in.
* provide new worcing, below, at that time:


## Significant side effects

Hyperglycaemia: Hyperglycaemia may rarely appear. Observation should be fully carried out. If any abnormalities are found, administration should be stopped if other causes of hyperglycemia have not been found, and appropriate action such as administration of insulin preparations should be taken.

- If MHLW does not agree to this wording suggest the following. We do not agree that wording such as olazapine has now in the JPI is appropriate for Serocuel.

Careful administration (The drug should be given with particular caution in the following patients. Patients with diabetes or a history of diabetes

## Significant side effects

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Should you still require data on Patients exposure in Japan, I have copied Carre Lapp on this. Carre -- the issue is below:
in response to your question below, it is possible to calculate the number of pationt-years exposure provided that you supply the average dose per patient per day, however the more meaningul estimated number of patients exposed would be preferred. In the US, modeis have been constructed based in part upon the average number of prescriptions filed per unit time per patient. I will copy Chis Maurer from the US on this to see what else is needed in calouiating the number of patients exposed to Seroquel in Japan.

Chris responded that he did not have numbers for Japan. Do you Carrie?
As for what fasting blood gheose data we will have, we have expected to have data in late 3 Q2002 from Study 0041. We are elso expecting information from Study 0043 in 4002 or 1 Q03. The protoco summaries are enclosed below.

I am sorry that this is such a long email with so many things in it. Should you have any questions or clarifications, please do not hesitate to let me know. As I am going to be in Europe next week, I will hot be so far behind you in time. I also will be available from Monday May 27 late am by email.

## Best Regards,

Margaret (Meg) Melville
Seroguel Global Regulatory Affair Director
t (302) 886-2118 or 1. 800 ) 456-3669 X 62118
mobile REDACTED
tax (302) 886-1400

* margaretmelvile Gastrazeneca

| From: Original Message---- | Izuishi, Koji |
| :--- | :--- |
| Sent: | Wednesday, May 22, 2002 9:09 PM |
| To: | Melvile, Margaret $G$ |
| Cc: | Oddam, Alex; Brecher, Martin |
| Subject: | RE: Seroquel and hyperglycaemia |

Dear Margaret-san
Pd like to contim may I submit 'your gucose document' to RHLW at the hearing? I also want to know that this document was submitted NZ authority, was it requirement form the authority? If so why the authority required suen information?

If you know above three question, please let me know.
By the way we will go to hearing next Monday or Tuesday. AZKK team will discuss the methods that how to negotiate the MHLW at Friday innchime. If you have any other useful information as differentiation between seroquel and olnazapin et.al, please let me know ASAP.

Pegards
K. lzuishi (ex3819)

AstraZeneca K.K

| From: | Original Message--- |
| :--- | :--- |
| Sent: | Iquishi, Hoji |
| To: | Tuesday, May $21,20026: 28 \mathrm{PM}$ |
| Cc: | Melville, Margarei G |
| Subject: | Oldham, Alex |

Dear Margaret-san
Thank for your prompt repiy and kindly hospitality during ny visit.

This assessment report looks very useful document to discuss dPl issues with MHLW.
Therefore is it possible to submit this document to the MHLW at the hearing?
If it is Ok, it makes more strong negotiation to them.
Please let me know acceptability to submit.

## Regards

K.lzuishi (ex3819)

AstraZeneca K, K

| From: | Meliginal |
| :--- | :--- |
| Message-- |  |
| Sent: | Saturdey, Margaret G G |
| To: | Izuishi, Koji; Geller, Fayne; Brecher, Martin; Mitani, Michiyo |
| Ce: | Fitton, Lesley R; Bowen, Rebecca; ; Trumble, Sharon M |
| Subject: | FT: Seroquel and hyperglycaemia |

Dear lzuishi-san, Ali,
As we have discussed, as we are all together in Batimore, this document, recenty prepared for Health Authorities requests, may be useful to you in your preparations to respond to MHLW on May 28. It is a recent review of glucose/diabetes from both a clinical and postmarketing perspective.

Wayne, Martin and I will see you tomorrow night in Philadelphia and can update you then.
Best Regards,
Margaret (kieg) Meville
Seroquel Gobal kegulatory Afatrs Director
\% (302) $886-2118$ or 1800 ) $456-3669 \times 62118$
mobike REDACTED
fax (302) 886-1400

- masarêmelvile@askazeneaz
-----Original Message......-

| From: | Trumble, Sharon M |
| :--- | :--- |
| Sent: | Monday, Apri 22, 2002 10:05 AM |
| To: | Carbines, Michelle |
| Cc: | Melvile, Margaret G |
| Subject: | RE: Seroquel and hyperglycaemia |

Dear Michelle,

Please find attached the glucose document to defend the issue of Seroquel and hyperglycaemia with the New Zealand HA, I apologise for the delay.

《File: Glucose Diaberes.pof 》
Could you please send me a copy of your response/defence letter when you submit this documentation to the NZ HA.

Please let me know if you require any additional information
Kind regards
sharon

| From: | Carbines, Michelle |
| :--- | :--- |
| Sent: | 10 April 2002 06:02 |
| To: | Melvilie, Margaret G; Trumble, Sharon M |
| Subject: | Seroquel and hyperglycaemia |

Hi Meg and Sharon
Just following up on the hyperglycaemia issue as we advised Medsafe that we would have a response to them by mid April which is nearly upon us. Are we still on track?

Thanks and kind regards
Michelle.

Michelle Carbines
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