

**PsychRights<sup>®</sup>**  
Law Project for  
Psychiatric Rights, Inc.

February 23, 2013

Connecticut General Assembly  
Senate Co-Chair Terry Gerratana  
House Co-Chair Susan Johnson  
Senate Ranking Member Jason Welch  
House Ranking Member Prasad Srinivasan  
Honorable Members of the Public Health Committee

Re: HB 5298

Dear Senators Gerratana and Welch, Representatives Johnson and Srinivasan and members of the Public Health Committee:

The Law Project for Psychiatric Rights (PsychRights<sup>®</sup>) is writing in support of HB 5298, prohibiting Connecticut residents from being electroshocked without the patient's written informed consent. PsychRights is a public interest law firm whose mission is to mount a strategic legal campaign against forced psychiatric drugging and electroshock in the United States akin to what Thurgood Marshall and the NAACP mounted in the 40's and 50's on behalf of African American civil rights. Frankly, as will be documented below, electroshock is a barbaric procedure that should never be forced on anyone.

I have reviewed the Probate Court Administrator's submission and by completely failing to acknowledge the lack of effectiveness and great harm caused by electroshock it misses the mark by a wide margin. This is most likely due to the Probate Court not being provided the evidence on electroshock by the state-paid attorneys assigned to represent the patients declining electroshock. In other words, I question whether people are getting adequate legal representation in involuntary electroshock proceedings because the government should never be able to prove it is entitled to force someone to endure electroshock if a proper defense was made, including the evidence presented below. As a result, I have to question the fairness of court proceedings that result in people being ordered to endure electroshock.

At paragraph 61 of the [Interim report of the Special Rapporteur on torture and other cruel, inhuman or degrading treatment or punishment](#), to the United Nations General Assembly, July 28, 2008, the Special Rapporteur stated that, "The use of electroshocks on prisoners has been found to constitute torture or ill-treatment," in violation of international law. If it is torture or ill-treatment when used on prisoners it is no less on mental patients. The Special Rapporteur concludes paragraph 61 as follows:

It is of vital importance that [electroshock] be administered only with the free and informed consent of the person concerned, including on the basis of information on the secondary effects and related risks such as heart complications, confusion, loss of memory and even death.

Connecticut should not continue to be a party to forcing people to endure electroshock against their will.

The legitimate scientific evidence is overwhelming that electroshock is neither safe nor effective. No studies show anything but short term benefit and there is overwhelming evidence electroshock causes brain damage, memory and cognitive losses in everyone. The brain damage, memory and cognitive loss, is to be completely expected from running electricity through people's brains. It is only through the dissembling of electroshock promoters and denigration of the first hand reports of harm, including catastrophic harm, by large numbers of electroshock recipients that this procedure is allowed at all.<sup>1</sup>

Particularly interesting is *The Cognitive Effects of Electroconvulsive Therapy in Community Settings*, Sackeim HA, Prudic J, Fuller R, Keilp J, Lavori PW, and Olfson M, *Neuropsychopharmacology* (2007) 32, 244–254 because Sackeim is a long time proponent of electroshock as being safe and effective. The authors say their study is the first of its kind, but there is a long history of studies demonstrating the harm caused by electroshock. In any event, even these electroshock supporters, funded by the electroshock industry, found electroshock does indeed cause cognitive deficits: "This study provides the first evidence in a large, prospective sample that adverse cognitive effects can persist for an extended period, and that they characterize routine treatment with ECT in community settings."

A compilation of the other literature follows.

### **Amnesia, Other Memory & Cognitive Deficits Caused by electroshock Machines**

Rose D, Fleischmann P, Wykes T, Leese M, Bindman J: Patients' perspectives on electroconvulsive therapy: systematic review. *British Medical Journal*: 326 (7403), 1363-1367, 2003, June 21. This was the first-ever systematic review of *all* literature which included reports from patients, as well as studies designed and carried out by ex-patients. This study found that "At least one-third of patients reported persistent memory loss. Levels were between 29% and 79%." (persistent defined as lasting six months or more) The authors also note:

- "Routine neuropsychological tests to assess memory do not address the types of memory loss reported by patients."
- "Loss of memory is insufficiently systematically investigated."

Johnstone L, Adverse psychological effects of electroshock. *Journal of Mental Health* 1999; 8(1):69-85. Johnstone asked patients to describe the sequelae of electroshock in their own words in semi-structured, qualitative interviews. Even though she did not ask about memory loss "nearly all spontaneously reported some degree of loss". They described the types of cognitive deficits and memory failures, such as failing to recognize formerly well-known persons, that have been consistently reported in the literature from since the 1940s. "If up to a third of people will suffer a serious adverse psychological reaction to electroshock, and if

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<sup>1</sup> For an excellent analysis of the dissembling perpetrated by the electroshock industry, your attention is drawn to "Doctors of Deception: What They Don't Want You to Know About Shock Treatment, by Linda Andre, *Rutgers University Press*, New Brunswick, New Jersey and London, 2009, which Dr. Stefan Kruszewski described in his *International Journal of Risk & Safety in Medicine* review, as a "brilliant analysis," bringing to light, "distorted disclosure of faulty science" in the marketing of Electroshock Machines. Credit for assembling the scientific evidence against the safety and efficacy of Electroshock Machines also goes to Ms.Andre.

there is no way of identifying these individuals in advance, the ratio of costs to benefits may begin to seem unacceptably high. As always, more research is needed."

Squire LR, Slater PC, Electroconvulsive therapy and complaints of memory dysfunction: a prospective three-year follow-up study. *Br J Psychiatry* 1983;142: 1-8. In this study, Squire compared non-depressed former electroshock patients to depressed controls. Seven months post electroshock, the electroshock patients' reports of memory difficulty reflected amnesia, not depression. Three years after electroshock, the majority of electroshock patients (58%) reported their memory function was still impaired.

According to UK electroshock Review Group. Efficacy and safety of electroconvulsive therapy in depressive disorders: a systematic review and meta-analysis. *The Lancet* 2003 (March 8); 361: 799-808: "Several uncertainties about electroshock remain that merit further investigation. First, the current evidence does not provide a clear quantitative estimate of the degree of short-term cognitive impairment associated with present methods of electroshock and how much it may persist after symptomatic recovery. Indeed, very little randomized evidence exists on the possible long-term cognitive effects of electroshock."

In Rami-Gonzalez L, Salamero M, Boget T, Catalan R, et al., Pattern of cognitive dysfunction in depressive patients during maintenance electroconvulsive therapy. *Psychological Medicine* 2003; 33: 345-350, the investigators looked at patients who had had an average of 36 electroshocks, compared to matched controls who had no electroshock. Encoding of new information and performance on most tests of frontal lobe function were significantly impaired. Compared with controls, electroshock patients also showed alterations in verbal fluency, mental flexibility, working memory, and visuomotor speed.

In NICE (National Institute for Clinical Excellence, London, UK), *Guidance on the use of electroconvulsive therapy*, April 2003, it was found that: "There was evidence that the measurement scales used in RCTs do not adequately capture the nature and extent of cognitive impairment, and qualitative studies have indicated that the impairment may be prolonged or permanent."

In Calev A. Neuropsychology and electroshock: past and future research trends, *Psychopharmacology Bulletin* 1994; 30(3), 461-469:

- "It has been known for a long time that electroshock adversely affects memory and other cognitive functions."
- "Non-memory cognitive function is affected by electroshock, and therefore, needs to be addressed in future research. Patients should be informed of these effects of electroshock."

Philpot M, Collins C, Trivedi P, Treloar A, Gallacher S, Rose D: Eliciting users' views of electroshock in two mental health trusts with a user-designed questionnaire, *Journal of Mental Health* 13(4): 403-413, 2004, found, "The adverse effects profiles showed a high prevalence of adverse effects, with two thirds of respondents reporting memory disturbance or confusion at the time of treatment and nearly half permanently." This is the only study ever to ask patients about electroshock's effects on their intelligence; 35 to 42% said electroshock resulted in loss of intelligence.

Janis IL. Psychologic effects of electric convulsive treatments (I. Post-Treatment Amnesias). *Journal of Nervous and Mental Disease* 1950(a); 111: 359-381. Although this is a very old study, its methodology has been generally well accepted and there have been many calls over the years for its replication (which has never been done). It is one of the very few studies to employ matched controls. Janis interviewed nineteen electroshock patients about their lives before and after electroshock, and compared their performance to that of matched mental patient controls. At one month post-electroshock, all patients had "profound, extensive" amnesia for at least ten to twenty life experiences, while the controls, who had not received electroshock for purely administrative reasons, had no memory difficulties. A year after electroshock, the amnesias remained stable.

In Freeman CP, Weeks D, Kendell RE. electroshock II: Patients who complain. *Br J Psychiatry* 1980; 137:8-16, Freeman gave 26 patients, nine months to 30 years post-electroshock, one of the most extensive batteries of neuropsychological tests ever performed on a group of electroshock patients. Memory function was only one aspect of cognition addressed. No "subjective" memory tests were given, nor did these authors ever use the word "subjective". This study also employed a normal control group. Freeman found that the ex-patients were significantly impaired and that they accurately reported their impairments. Neither depression, nor drugs, nor other factors besides electroshock could account for all the neuropsychological deficits found in the patients. He concluded that "it may be that electroshock does cause some degree of permanent memory impairment."

In addition to the Sackeim study cited at the outset, severe permanent amnesia has also been found in the following two studies by financially conflicted researchers.

Weiner RD, Rogers HJ, Davidson JR, Squire LR. Effects of stimulus parameters on cognitive side effects. *Ann NY Acad Sci* 1986;462: 315-325. This study by electroshock Machine manufacturer Mecta consultant Weiner is one of only a few to follow patients as long as six months, finding, "Provocative evidence for what amounts to objective personal memory losses lasting at least six months." After electroshock, patients could not remember 30 to 40% of the responses to personal questions they'd given on a questionnaire before electroshock. Though the authors did not state the percentages of patients with memory loss, it is possible to discern from the graphs that 94% of patients experienced memory loss lasting at least six months.

Coleman EZ, Sackeim HA, Prudic J, Devanand DP, McElhiney MC, Moody BJ. Subjective memory complaints prior to and following electroconvulsive therapy. *Biol Psychiatry* 1996; 39:346-356. In this study by Mecta consultant Sackeim and his team, electroshock patients all reported memory and cognitive impairment compared with controls. The study noted "ample objective documentation of anterograde and retrograde memory deficits" at one week. At two months post-electroshock, patients were still impaired, and according to Sackeim, this can be considered to be permanent. The researchers "also observed significant associations between memory self-ratings and the extent of retrograde amnesia for autobiographical information." and "evidence of a relation between subjective self-assessment and objective neuropsychological findings in an electroshock sample." In other words, patients accurately reported their deficits.

## Brain damage

In Templer DI, Veleber DM. Can electroshock permanently harm the brain? *Clinical Neuropsychology* 1982; 4(2): 62-66, the authors stated, "Our position remains that electroshock has caused and can cause permanent pathology."

Colon EJ, Notermans SLH. A long-term study of the effects of electro-convulsions on the structure of the cerebral cortex. *Acta Neuropathologica (Berlin)*1975; 32: 21-25. This was an animal study done two months after shock:

- "The results indicate a persistent change in the nuclear volume of the cerebral neurons in this area."
- "This constitutes a serious warning against the use of electroconvulsive therapy and a serious indication for the suppression of epileptic manifestations."

Weinberger DR, Torrey EF, Neophytides AN et al. Lateral cerebral ventricular enlargement in chronic schizophrenia. *Archives of General Psychiatry* 1979; 36: 735-739. This was not an electroshock study *per se*, but included patients who had had electroshock and concluded it was associated with ventricular enlargement. "Either electroshock enlarged the ventricles of the patients treated with it, or it was used with greater frequency in patients who tended to have larger ventricles." The latter, of course, is highly improbable.

Calloway SP, Dolan RJ, Jacoby RJ, Levy R. electroshock and cerebral atrophy. *Acta Psychiatrica Scandinavica* 1981; 64: 442-445, was a retrospective CAT-scan and case review study of 41 people. All patients were at least six months post-electroshock and the authors were so alarmed by their finding that they warned, "A significant relationship was demonstrated between frontal lobe atrophy and electroshock...In our opinion, this is a question of such importance that, in our opinion, the finding of a relationship between frontal atrophy and electroshock justifies this brief report. It emphasizes the need for a more detailed investigation, with larger number of patients in a younger age group."

In the Templer RI, Ruff CF, Armstrong G. Cognitive functioning and degree of psychosis in schizophrenics given many electroconvulsive treatments. *British Journal of Psychiatry* 1973; 123: 441-443, study, the performance of former electroshock patients---all of whom were at least seven years post-electroshock---on cognitive tests was significantly inferior to that of control mental patients matched for age, race and education. "The electroshock patients' inferior Bender-Gestalt performance does suggest that electroshock causes permanent brain damage."

Shah PJ, Glabus MF, Goodwin GM, Embeier KP. Chronic, treatment-resistant depression and right fronto-striatal atrophy. *British Journal of Psychiatry* 2002; 180: 434-440, was an MRI study of 20 patients with controls, but not an electroshock study as such, finding, "Atrophy was confirmed on volumetric analysis, the degree correlating with the cumulative number of electroconvulsive therapy (electroshock) treatments received, suggesting an acquired deficit." The study concluded that "The possibility that the findings were electroshock-related cannot be discounted." In reality, it is a virtual certainty that the findings were electroshock related.

In Diehl DJ, Keshavan MS, Kanal E, et al Post-electroshock increases in T2 relaxation times and their relationship to cognitive side effects: a pilot study. *Psychiatry Res* 1994 (November); 54(2): 177-184, six patients were studied while undergoing unilateral electroshock. "The results demonstrate significant post-electroshock T2 increases in the right and left thalamus, and suggest a correlation between regional T2 increase and anterograde memory impairment. These findings are consistent with a post-electroshock increase in brain water content (perhaps secondary to a breakdown of the blood-brain barrier) and suggest that this process may be related to the memory impairment following electroshock."

Marcheselli et al. Sustained induction of prostaglandin endoperoxidase synthase-2 by seizures in hippocampus. *J Biol Chem* 1996; 271: 24794-24799 found that electroshock causes an increase in the production of inflammatory proteins in brain cells.

The Andreasen et al. MRI of the brain in schizophrenia. *Archives of General Psychiatry* 1990; 47: 35-41 MRI study demonstrated a strong correlation between the number of previous electroshock treatments and enlarged ventricles .

The Dolan et al. The cerebral appearance in depressed patients. *Psychological Medicine* 1986; 16: 775-779, study compared the brain scans of 101 depressed patients who had received electroshock with the scans of 52 normal volunteers and found a significant relationship between electroshock treatment and brain atrophy. The study also showed that the brain abnormalities correlated only with electroshock, and not with age, gender, severity of illness, or other variables.

In Figiel G, Coffey E, et al. Brain MRI findings in electroshock-induced delirium. *Journal of Neuropsych and Clin Sci* 1990; 2: 53-58, this study conducted by a well-known electroshock enthusiast found that 11% of elderly patients getting electroshock for depression remained delirious between electroshock sessions for no discernible medical reason other than the electroshock. 90% of these patients had lesions in the basal ganglia area of the brain, and 90% also had white matter lesions.

Teuber JL, Corkin S, Twitchell TE. A study of cingulotomy in man. Report to the National Commission for the Protection of Human Subjects in Biomedical and Behavioral Research. 1976. The authors of this study stated, "We found that individuals whose prior treatments had included electroshock were inferior to normal control subjects and to patients [who had been subjected to psychosurgery] who had been spared electroshock, and this inferiority was apparent on the following measures: verbal and nonverbal fluency, delayed alternation performance, tactual maze learning, continuous recognition of verbal and nonverbal material, delayed recall of a complex drawing, recognition of faces and houses, and identification of famous public figures. In some cases, the degree of deficit was related to the number of electroshock received, patients who had been given more than 50 being significantly worse than those who had sustained fewer than 50."

### **Permanent memory loss in rats**

Unlike the literature on humans, which generally avoids the use of the word, "permanent," substituting "persistent," the rat study Luttges MW, McGaugh JL.

Permanence of retrograde amnesia produced by electro-convulsive shock. *Science* 1967; 156: 408, concludes that shocked rats had permanent retrograde amnesia for a task they had known how to do before shock.

## **Efficacy**

No study has ever found a beneficial effect of electroshock lasting more than four weeks. The following studies shows that efficacy of electroshock Machines has not been established.

An independent review group (van der Wurff FB, Stek ML, Hoogendijk WL, Beekman ATF. Electroconvulsive Therapy for the Depressed Elderly, *Cochrane Database of Systematic Reviews*, The Cochrane Library, 2003; 3) set out to review the evidence of efficacy in elderly patients, but concluded: "None of the objectives of this review could be adequately tested because of the lack of firm, randomized evidence. It is of importance to conduct a well designed randomized trial in which the efficacy of electroshock is compared to one or more antidepressants."

NICE (National Institute for Clinical Excellence, London, UK), "Guidance on the use of electroconvulsive therapy", April 2003 discovered, "There was no conclusive evidence to support the effectiveness of electroshock beyond the short term or that it is more beneficial as a maintenance therapy in depressive illness than currently available pharmacological alternatives."

Lambourn L, Gill D. A controlled comparison of simulated and real electroshock. *British Journal of Psychiatry* 1978; 133: 514-519, found no advantage for real electroshock over simulated (anesthesia only) electroshock.

Sheppard GP, Ahmed SK. A critical review of the controlled real vs. sham electroshock studies in depressive illness. Paper presentation at the First European Symposium on electroshock, Graz, Austria, March 1992, reviewed every published controlled sham vs. real electroshock studies to date (there have been none since) and found, "Evidence does *not* in the opinion of the authors significantly indicate that real electroshock is more effective than sham electroshock in treating depressive illness."

## **High mortality, no effect on suicide**

One of the presumed benefits of electroshock is a reduction of suicide and therefore decreased mortality. Neither have been shown to be true and the evidence suggests the opposite:

Philpot et al, cited above, though not a mortality study, found 2 of 108 patients in the study group died within six weeks of electroshock.

The state of Texas, after reviewing the first five years of data on deaths occurring within 14 days of electroshock as required by the state law since 1993, changed the mandatory statewide consent requiring patients to be informed of the possibility of death due to electroshock---deleting the word "remote" in front of "possibility of death".

Barbigian HM, Gutmacher LB. Epidemiologic considerations in electroconvulsive therapy. *Archives of General Psychiatry* 1984; 41: 246-253, looked at all causes of death

and stated, "electroshock patients died sooner after first hospitalization than patients not receiving electroshock."

In Milstein V, Small JG et al. Does electroconvulsive therapy prevent suicide? *Convulsive Therapy* 1986; 2: 3-6.1491, a study by doctors administering a lot of electroshock, patients were followed for 5-7 years, they could not produce any evidence that electroshock reduced the suicide rate. In fact, those who committed suicide were more likely to have received electroshock.

Black DW, Winokur GW et al. Does treatment influence mortality in depressives? was a follow-up of 1076 patients with major affective disorders. *Annals of Clinical Psychiatry* 1989; 1(3): 166-173 finding:

- "Neither general (all cause) mortality rates nor suicide rates varied significantly among treatment groups."
- "Mode of therapy received in the hospital has minimal influence on subsequent mortality, including suicide."

Avery DA, Winokur GW. Mortality in depressed patients treated with electroconvulsive therapy and antidepressants. *Archives of General Psychiatry* 1976; 33: 1029-1037, concluded: "In the current study treatment was not shown to affect the suicide rate."

Kroessler D, Fogel BS. Electroconvulsive therapy for major depression in the oldest old: effects of medical co-morbidity on post-treatment survival. *American Journal of Geriatric Psychiatry* 1993; 1(1): 30-37, found higher mortality in very elderly people treated with electroshock.

Karagulla S. Evaluation of electric convulsion therapy as compared with conservative methods of treatment in depressive states. *Journal of Mental Science* 1950; 96: 1060-1091, compared people treated in the pre-electroshock (pre-1939) era with those treated in later years. People who had had electroshock committed suicide at twice the rate of those who hadn't.

The foregoing makes clear that no one should be forced to endure electroshock against their will.

It is my hope the General Assembly will do the right thing and enact HB 5298.

Yours truly,



James B. Gottstein, Esq.  
President/CEO