Sertraline maintenance treatment reduced relapse and dropouts in post-traumatic stress disorder


QUESTION: In patients who have post-traumatic stress disorder (PTSD) and have responded to continuation sertraline treatment, does maintenance sertraline treatment reduce relapse?

Design
Randomised (unclear allocation concealment*), blinded (unclear*), placebo controlled trial with 28 weeks of follow up.

Setting
24 centres in the US.

Patients
96 patients who were 21–69 years of age (mean age 43 y; 70% women); met the DSM-III-R criteria for PTSD; had PTSD symptoms for > 6 months (mean duration 15 y) and a total severity score ≥50 on the Clinician-Administered PTSD Scale (CAPS) part 2; and met responder criteria (Clinical Global Impression [CGI] improvement score ≤2 and ≥30% improvement in total severity score on CAPS part 2) after 24 weeks of sertraline. Exclusion criteria included bipolar disorder; schizophrenia; organic mental disorder; primary diagnosis of major depression or anxiety; and substance abuse. Follow up was 88%.

Intervention
Patients were allocated to sertraline, 50–200 mg/day (mean dose 137 mg/d) (n=46) or placebo (n=50). Concomitant psychotropic therapy (except for chloralhydrate on ≤2 nights/wk) or cognitive behaviour therapy was not permitted. Other forms of psychotherapy could not begin or end during the study period.

Main outcome measures
Relapse, dropout because of clinical deterioration, acute exacerbation, study completers, and adverse events. Patients who relapsed met 3 criteria on 2 consecutive visits: CGI improvement score ≥3; ≥30% increase and increase of ≥15 points on CAPS, part 2; and substantial worsening of patients’ clinical condition as judged by the investigator.

Main results
Analysis was by intention to treat. Sertraline led to lower rates of relapse, non-completion of study, and acute exacerbation than did placebo (table). No adverse events with a rate ≥10% occurred in the sertraline group; dizziness was the only adverse event with a rate ≥10% in the placebo group (4.3% for sertraline v 18% for placebo, p<0.05).

Conclusion
In patients who had post-traumatic stress disorder and had responded to sertraline, maintenance sertraline reduced relapse and dropouts.

COMMENTARY
Davidson et al report the first published randomised controlled trial (RCT) of maintenance treatment for PTSD. The idea of applying the standard treatment for depression to PTSD by continuing treatment with an antidepressant for 6 months after response1 appears to be challenged. This RCT is of far higher quality than many previous PTSD treatment studies. However, several methodological issues call for cautious interpretation of the results. The patients represent only a small proportion of those who entered the research programme. All patients completed a 12 week acute phase RCT comparing sertraline with placebo plus a 24 week open label sertraline continuation study. Of the initial 380 patients who entered the acute phase trial, 155 completed the open label trial. Davidson et al then randomised 96 of these patients in the current trial with only 48 completers. Twice as many men were in the placebo group as in the sertraline group. This difference is of concern because none of the 9 men in the sertraline group relapsed, whereas 5 of the 18 men in the placebo group did. Another potential issue is that 38 patients (40%) met criteria for a secondary depressive disorder. The authors did not state how many of these patients were in each group, but stated that the presence of depressive disorder did not influence relapse rates. Perhaps of more importance is the failure to report how many patients were originally randomised to sertraline rates. Perhaps of more importance is the failure to report how many patients were originally randomised to sertraline in the acute phase RCT. The result is that some patients will have already taken sertraline for 36 weeks by study entry and others for 24 weeks.

Notwithstanding these issues, the results convincingly favour sertraline maintenance. Most relapses occurred between 5 and 8 weeks after stopping sertraline, supporting the authors’ conclusion that loss of prophylactic efficacy was more likely to explain the difference than a discontinuation syndrome. If these results prove correct it could be strongly argued that patients with chronic PTSD who respond to sertraline should not have it discontinued within a year, particularly because it appears to be well tolerated. Future research may identify subgroups that are more likely to need longer maintenance treatment than others. In this study, patients who responded most quickly in the acute phase trial were those least likely to relapse on discontinuation.

Jonathan I Bisson, DM, MRCPsych
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Sertraline v placebo for sertraline responders with post-traumatic stress disorder†

<table>
<thead>
<tr>
<th>Outcomes at 28 weeks</th>
<th>Sertraline</th>
<th>Placebo</th>
<th>RRR (95% CI)</th>
<th>NNT (CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relapse</td>
<td>5.3%</td>
<td>26%</td>
<td>0.32 (0.05–0.85)</td>
<td>15 (7 to 32)</td>
</tr>
<tr>
<td>Relapse or discontinuation because of clinical deterioration</td>
<td>16%</td>
<td>46%</td>
<td>0.32 (0.05–0.85)</td>
<td>15 (7 to 32)</td>
</tr>
<tr>
<td>Acute exacerbation</td>
<td>16%</td>
<td>52%</td>
<td>0.32 (0.05–0.85)</td>
<td>15 (7 to 32)</td>
</tr>
<tr>
<td>Did not complete study</td>
<td>39%</td>
<td>60%</td>
<td>0.32 (0.05–0.85)</td>
<td>15 (7 to 32)</td>
</tr>
</tbody>
</table>

*See glossary.

†Abbreviations defined in glossary; RRR, NNT, and CI calculated from data in article.
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