LETTER TO THE EDITOR

Suicidal Risks in Reports of Long-Term Treatment Trials for Major Depressive Disorder

Ross J. Baldessarini, MD; Wai Keat Lau, MD; Jordan Sim, MD; Min Yi Sum, BA; Kang Sim, MD

Department of Psychiatry, Harvard Medical School, Boston, MA (Dr Baldessarini); International Consortium for Psychotic and Mood Disorders Research, McLean Hospital, Belmont, MA (Drs Baldessarini and K Sim); Yong Loo Lin School of Medicine, National University of Singapore (Drs Lau, J Sim, and K Sim); Research Department (Dr K Sim and Ms Sum), and Department of General Psychiatry (Dr K Sim), Institute of Mental Health, Singapore.

Correspondence: R.J. Baldessarini, MD, Mailman Research Center, McLean Hospital, 115 Mill Street, Belmont, MA (rbaldessarini@mclean.harvard.edu).

In our recent review and meta-analyses of reports of long-term trials of treatments for major depressive disorder patients, we noted that remarkably little potentially relevant and interesting clinical information was included in most reports (Sim et al., 2015). This limitation seemed particularly remarkable in long-term studies carried out at great effort and expense. In general, reports of clinical trials in various disorders appear to focus rather narrowly on outcomes for which the trials were designed, usually rates of relapse or recurrence of a particular illness (Baldessarini, 2013).

In an effort to evaluate this impression more closely, we re-reviewed the reports cited in our review (Sim et al., 2015), focusing specifically on any indications of suicidal behaviors, which are of particular interest with major mood disorder patients. We recorded any comment or data pertaining to suicidal events, including completed suicides, attempts or self-injuries, or suicidal ideation typically significant enough as to require removal from the trial. Exposure times include not only the long-term phases of the trials but also lead-in weeks with placebo treatment as well as initial open-label phases of antidepressant treatment prior to randomization to continue active treatment or discontinue to placebo, with categorization based on the treatment assigned during the long-term phases of trials.

Very few reports included information concerning suicidal risks, even broadly defined. In all, we found 12 such publications among 85 (14.1%) reviewed reports. Reports with any information about suicidal events included 6 placebo-controlled continuation trials for up to 1 year, 6 antidepressant trials lasting more than 12 months, and no trial of a psychosocial treatment (Sim et al., 2015) (Table 1). Most of the 12 reports provided only brief comments as to whether or not suicides or attempts occurred in active treatment or control arms of the trials, most of which had attempted to exclude currently suicidal subjects. The very low yield of 14.1% of trials reporting any information about suicidal events during the trials was surprising.

It is also noteworthy that the average rates of suicide attempts and suicides were very high despite efforts to exclude currently suicidal patients. The risk of suicide averaged 1.08%/year, and of attempts, 2.24%/year, across treatment arms of trials. In addition, there was an ominously low apparent ratio of attempts/suicides of 2.07, compared with >30 in the general population (Kessler et al., 2005; Tondo et al., 2007). The observed rates of attempts and suicides are far higher than in the general population and even higher than those reported in clinical samples of outpatients diagnosed with major depressive disorder, which average approximately 0.045%/year for suicide and 0.480%/year for attempts (Bostwick and Pankratz, 2000; Tondo et al., 2007). Such high levels of suicidal risk may reflect the difficulty of excluding potentially suicidal subjects from trials and the fact that trial entry required being acutely depressed in order to study treatment effects (Sim et al., 2015).

Nevertheless, if the findings are valid and representative, they underscore the importance of considering suicidal risks in such trials.

Even more remarkable were indications that the overall risk of suicidal events was significantly greater in trial arms involving active, antidepressant treatment vs placebo controls when findings were pooled across all 12 trials and in 9/12 of the trials (Table 1). However, since none of the trials was specifically designed to address suicidal risk and the trials yielding data on suicidal risks were few, the summarized observations may merely represent chance findings, with risk of selective overreporting of high rates. Alternatively, they parallel the unresolved
relationships of antidepressant exposure to suicidal risks (Baldessarini et al., 2007; Stone et al., 2009; Nischal et al., 2012), and surely they warrant further study.

The present findings strongly encourage the recommendation that important outcomes of clinical and research significance more routinely be included in reports of treatment trials for psychiatric disorders, especially trials involving long-term observations under controlled conditions, if only to limit biased, selective reporting of unrepresentative findings. Suicidal risk among mood disorder patients is only one example. The provocative and unexpected finding of very high reported, pooled rates of suicide and attempts and greater observed suicidal risks with antidepressant treatment than with placebo indicate the need to pursue these unexpected findings. In general, we support the research practice of including information about suicidal risk as well as other clinical measures of interest, routinely, in the design, conduct, and reporting of psychiatric treatment trials.

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Statement of Interest

None.

References


