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Letter to the editor

Challenging the promotion of antidepressants for nonsevere depression

The editorial by Eriksson and Hieronymus promoting antidepressants in nonsevere depression is seriously biased and misleading (1).

Firstly, the authors merely adapted, without critical review, Furukawa et al.'s (2) study of placebo-controlled, double-blind randomized trials of new generation antidepressants in Japan. Although Furukawa et al. initially identified 11 trials for inclusion, sponsoring companies only agreed to provide access to patient-level data for six. Two of these could not be included in the primary analysis because the data were only available through a remote portal. Further, the trials lasted for only 6-8 weeks and the authors did not report on adverse effects. Furukawa et al. found that the efficacy of antidepressants was below the level of clinical relevance (1.62 points [95% Confidence interval, 0.81–2.43] on the Hamilton Depression Rating Scale (HDRS) at 8 weeks). Eriksson and Hieronymus conclude that the impact of baseline severity on antidepressant response is a myth, while the more important conclusion is that the only available evidence is from short-term trials, based on surrogate measures, ignores adverse effects, and indicates only minimal efficacy of antidepressants.

Secondly, Eriksson and Hieronymus fail to acknowledge the general limitations of trials such as those included in the Furukawa et al. analysis. Crucially, these trials measure antidepressant effectiveness using depression scales that are frankly inadequate to assess well-being and functional outcomes. Indeed, only 1 item out of 17 in the HDRS and no items in the Montgomery-Åsberg Depression Rating Scale measure well-being. Moreover, sexual function, frequently impaired by antidepressants, is ignored. The trials included in Furukawa et al. thus provide essentially no information about quality of life or recovery of function. Cipriani et al. (3), in a recent meta-analysis of 522 antidepressant trials ($n = 116\,477$), highlighted that no data were available to quantify global functioning, acknowledged to be a highly relevant clinical outcome.

Thirdly, antidepressants as a class deserve high degree of scrutiny. Recent critical evaluations have exposed how pharmaceutical industry-sponsored studies have overestimated benefits and underestimated harms (4–7). This is especially true considering the potential for serious harms from antidepressants compared to psychotherapy. Serious adverse effects of antidepressants, including suicide, cannot be overlooked. In 2004, the Food and Drug Administration issued a black-box warning for all antidepressants indicating an association with increased suicidality (8, 9). Other serious adverse effects also exist. There is no evidence that escitalopram or citalopram is superior in terms of efficacy compared to other antidepressants but robust documentation has existed since 2001 linking them to serious cardiovascular adverse effects (QT prolongation and deadly torsade de pointes) (10, 11). Similarly, duloxetine has no efficacy advantage versus other antidepressants, but has the potential for life-threatening liver injury and severe skin reactions,

including Stevens–Johnson syndrome (12, 13). Escitalopram and duloxetine, included in the Furukawa et al. study, feature in the yearly list of ‘drugs to avoid’ published by the independent drug bulletin Prescrire International, having been assessed to be more dangerous than beneficial (14). In addition, another selective serotonin reuptake inhibitor included in the Furukawa study, paroxetine, increases the risk of cardiac anomalies (15), a major concern as there are more prescriptions for paroxetine than for any other antidepressant among women of child bearing age (16) and many pregnancies are unplanned (45% in the United States in 2011) (17).

Finally, there is justifiable concern about the overdiagnosis of depression in people's lived experience, where mood perturbations commonly reflect real life more than medical illness. Indeed, they are often understandable and temporary reactions to loss, bereavement, or other stressors. Many depressive presentations respond to judicious ‘watchful waiting’ (18) and support. Most episodes of depression that persist are often successfully treated with specific psychosocial interventions, notably cognitive behavioral therapy (CBT), interpersonal psychotherapy, or behavioral activation. These treatments, robustly evidence-based in the real-life setting and over the long term (19, 20), are often preferred by patients (21) and known to improve self-esteem, agency, and social functioning (22). Unfortunately, antidepressant treatment is far more likely to be reimbursed by healthcare systems than are psychosocial interventions. Given the lack of evidence for the superiority of antidepressants over the long term, and in light of the harms they can cause, (23–25) psychosocial interventions remain the preferred first option for most patients with nonsevere depression. This is the recommendation of many national guidelines such as the one from the Canadian Network for Mood and Anxiety Treatments (26).

In conclusion, available evidence shows only very limited effectiveness of antidepressants for nonsevere depression. In light of this, and their potential harms, their routine use for this indication cannot be justified; the editorial by Eriksson and Hieronymus thus seriously misrepresents the utility of antidepressant medication for nonsevere depression.

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