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Authors' Response to Braillon's Comment on: "Limited Evidence for Risk Factors for Proarrhythmia and Sudden Cardiac Death in Patients Using Antidepressants

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Published in: Drug Safety

DOI:

10.1007/s40264-018-0716-5

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version
Publisher's PDF, also known as Version of record

Publication date: 2018

Link to publication in University of Groningen/UMCG research database

Citation for published version (APA):

Simoons, M., Seldenrijk, A., Mulder, H., van Roon, E., Bakker, R., & Ruhé, H. (2018). Authors' Response to Braillon's Comment on: "Limited Evidence for Risk Factors for Proarrhythmia and Sudden Cardiac Death in Patients Using Antidepressants: Dutch Consensus on ECG Monitoring". *Drug Safety*, *41*(12), 1417-1418. https://doi.org/10.1007/s40264-018-0716-5

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LETTER TO THE EDITOR



Authors' Response to Braillon's Comment on: "Limited Evidence for Risk Factors for Proarrhythmia and Sudden Cardiac Death in Patients Using Antidepressants: Dutch Consensus on ECG Monitoring"

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Published online: 17 August 2018 © Springer Nature Switzerland AG 2018

We thank Dr. Braillon for his comments on our article [1]. Dr. Braillon questions whether we should minimize the risk of proarrhythmia and sudden cardiac death in relation to antidepressants with recommendations for electrocardiogram monitoring or avoid the use of antidepressants all together and mainly treat patients with depression with psychotherapy [2]. We agree with Dr. Braillon that psychotherapy (cognitive behavioral therapy) is an alternative firstline treatment option for depression with at least better and prolonged effects regarding relapse prevention relative to antidepressants [3–5]. However, the aim of our article was to aid physicians and patients who have collaboratively decided to start antidepressant therapy to treat depression either as monotherapy or in combination with psychotherapy [1, 6]. We describe a set of recommendations for estimating and minimizing the risk of proarrhythmia and sudden cardiac death after the choice for pharmacological therapy above other treatment options has been made [1].

This reply refers to the article available at https://doi.org/10.1007/s40264-018-0714-7.

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For decades, there has been a debate about the efficacy, effectiveness, and benefit-harm ratio of antidepressants. A recent systematic review and network analysis that was not yet available when Prescrire published its list of drugs to avoid in 2017 [7] represents the most comprehensive analysis of the evidence base for antidepressant efficacy and acceptability ever performed [8]. Based on 552 trials and over 116,000 participants, Cipriani et al. found that all 21 antidepressants included in the meta-analysis were more efficacious than placebo in adults with major depressive disorder, while few differences were found between the antidepressants and placebo when tolerability was concerned [8]. In fact, treatment with antidepressants can be lifesaving. Patients with major depressive disorder more often die from suicide than from proarrhythmia or sudden cardiac death. Although the risk of intentional overdosing as a consequence of psychiatric disease is always present, the literature currently available shows that adults aged over 25 years treated with any class of antidepressant have a lower risk of suicidality compared with placebo [9, 10]. We agree with Dr. Braillon that risks associated with any drug

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could be prevented by avoiding such agents and considering alternatives (e.g., psychotherapy) instead. Considering the data from the aforementioned meta-analyses, however, the suggested market withdrawal for antidepressants such as citalopram, escitalopram, and venlafaxine [7] is, in our opinion, too far reaching.

Once the choice for antidepressant therapy has been made, in our opinion, it is important to minimize the risk of proarrhythmia and sudden cardiac death. Currently, the only way to achieve risk minimization with respect to these adverse effects of antidepressants is to monitor the electrocardiogram based on risk factors such as older age, female sex, or aberrant potassium levels. We provide clear and readily applicable recommendations for performing electrocardiogram screening and monitoring in daily clinical practice, thereby meeting a need of clinicians that we identified.

We hope we were able to clarify the issues raised by Dr. Braillon and would like to thank him again for his reflections on our work.

Compliance with Ethical Standards

Funding No specific funding was received for this letter. The original project was funded by the Dutch Network for Quality Development in Mental Health Care (Grants P140019 and P140040 to Henricus Ruhé and Roberto Bakker). This organization had no influence on the content of the study, the original manuscript, or this letter.

Conflict of interest Henricus Ruhé obtained an Investigator-Initiated Trial grant and speaking fees from Lundbeck BV, which are not related to the current work. Mirjam Simoons, Adrie Seldenrijk, Hans Mulder, Eric van Roon, and Roberto Bakker have no conflicts of interest that are directly relevant to the contents of the study, the original manuscript, or this letter.

Ethics approval Ethics approval was not applicable for this letter.

Patient consent Patient consent was not applicable for this letter.

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