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Guideline Recommendations for Long-term Treatment of Depression with antidepressants in primary care - a critical review
Guideline Recommendations for Long-term Treatment of Depression with antidepressants in primary care - a critical review

Ellen Piek¹, Klaas van der Meer¹, Willem A Nolen²

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¹Department of General Practice, University Medical Center Groningen, University of Groningen, Postbus 196, 9700 AD Groningen, The Netherlands
²Department of Psychiatry, University Medical Center Groningen, University of Groningen, Postbus 30.001, 9700 RB Groningen, The Netherlands
Patient case C "Guideline recommendations for maintenance treatment with antidepressants"

Mrs. C. had an episode of major depressive disorder in the past. In addition, and prior to that episode, she was diagnosed with a dysthymic disorder that had lasted for many years. She was a housewife with a disabled husband and a son with psychological problems that still lived with his parents. Her husband and son were both not very talkative and tended to fight quite a lot. At first glance the dysthymic disorder seemed to stem from her surroundings. She was advised to search for hobbies out of the house and talk with friends to cope with the situation at home. Unfortunately, she did not achieve remission with these advises. Psychological therapy (counselling and psychotherapy) were tried. Nonetheless, she remained dysthymic. In 2010 we decided to try treatment with an antidepressant. After only a few weeks of sertraline 50mg she started to feel better, and after 8 weeks she told me she was ‘happy’. At home things ran smoother as well, as she would less often react irritated to her husband and son.

At the moment she consults me every six months to discuss her mood and the need for further continuation of the antidepressant. Unfortunately, she is very anxious to stop the sertraline. According to the guideline, this could be considered overtreatment. From the view of Mrs. C. who has had a dysthymic disorder for many years it is understandable that she is anxious and maybe even unwilling to stop. I estimate that attempts at tapering off an antidepressant without the patients full consent are likely to fail. In this case, we discuss the medication twice a year and maybe in the future a good moment will be found to stop the sertraline.

In this chapter it becomes clear that although most guidelines would not recommend maintenance treatment in this case, evidence concerning (indications for) maintenance treatment is scarce.
Abstract

Background
Long-term treatment with antidepressants is considered effective in preventing recurrence of major depressive disorder (MDD). It is unclear whether this is true for primary care. We investigated whether current guideline recommendations for long-term treatment with antidepressants in primary care are supported by evidence from primary care.

Methods
Data sources for studies on antidepressants: PubMed, Cochrane Library, Embase, PsycInfo, Cinahl, articles from reference lists, cited reference search. Selection criteria: adults in primary care, continuation or maintenance treatment with antidepressants, with outcome relapse or recurrence, (randomized controlled) trial/naturalistic study/review. Limits: published before October 2009 in English.

Results
Thirteen depression guidelines were collected. These guidelines recommend continuation treatment with antidepressants after remission for all patients including patients from primary care, and maintenance treatment for those at high risk of recurrence. Recommendations vary for duration of treatment and definitions of high risk. We screened 804 literature records (title, abstract), and considered 27 full-text articles. Only two studies performed in primary care addressed the efficacy of antidepressants in the long-term treatment of recurrent MDD. A double-blind RCT comparing mirtazapine (n=99) and paroxetine (n=98) prescribed for 24 weeks reported that in both groups 2 patients relapsed. An open study of 1031 patients receiving sertraline for 24 weeks, who were naturalistically followed-up for up to 2 years, revealed that adherent patients had a longer mean time to relapse.

Conclusions
No RCTs addressing the efficacy of maintenance treatment with antidepressants as compared to placebo were performed in primary care. Recommendations on maintenance treatment with antidepressants in primary care cannot be considered evidence-based.
Introduction

Major depressive disorder is a common illness. According to the WHO major depressive disorder will be one of the leading causes of disability worldwide by 2020, second only to ischemic heart disease (1). The high level of disability associated with depression is mainly caused by it's chronic or recurrent course (2,3). To prevent chronicity, relapses or recurrences after remission has been achieved during treatment of the acute episode, guidelines recommend long-term treatment with antidepressants (AD) (4-6). Two recent meta-analyses based on a considerable number of placebo-controlled trials in which patients were randomized to either continuation of AD or placebo during the first three months after remission, have shown that continuation treatment with AD significantly decreases relapse rates within the first three months after randomization (7,8). This evidence supports the recommendation for continuation treatment with AD during the first months after remission to prevent relapse. Far less research has investigated the efficacy of longer-term maintenance treatment for prevention of recurrence (7,8). Although guidelines also recommend maintenance treatment with AD for several years, or even lifelong, for patients with previous recurrences the scientific basis for these recommendations is meagre, since only few studies have addressed the efficacy of AD in patients randomized more than three months after remission (4-6,8). For registration of an AD (e.g. by the European Agency for the Evaluation of Medicinal Products) the manufacturer is required to provide efficacy data from placebo-controlled acute treatment studies as well as continuation studies lasting up to six months (http://www.emea.europa.eu/pdfs/human/ewp/051897en.pdf).

The majority of patients with depression are treated in primary care (9). One may assume that treatment of depression might not be that different between primary and secondary care, but without proof we cannot simply extrapolate the guidelines from secondary care to primary care. Also, some studies did find, although small, differences between patients in primary and secondary care. For example, psychotic features and suicidality are less often present in primary care (10). Second, primary care patients with depression seem to be less accepting of treatment, possibly leading to a lower effectiveness (11). Third, patients in primary care less often receive psychotherapy (12). As the majority of studies of long-term AD treatment have been carried out in secondary care, their generalizability to primary care
Guideline recommendations for antidepressant treatment

remains uncertain (7,8).

We sought to investigate the current depression guideline recommendations on long-term treatment with AD in primary care in order to determine if the recommendations are supported by studies representative of the primary care population. This review therefore addressed the following questions. 1. What is, according to current guidelines, the recommended duration of treatment with AD after remission for patients with major depressive disorder treated in primary care? 2. Are these recommendations for long-term treatment with AD in primary care supported by evidence from literature?

Methods

Guideline recommendations

For the first question our aim was to collect current guidelines, from Europe and English-speaking countries in other parts of the world, which provided recommendations for primary care about AD treatment in major depressive disorders. Therefore, we searched PubMed, Cochrane, PsycInfo, Embase, Cinahl, and the National Guideline Clearinghouse as well as with the search machine Google with the keywords “depression”, “guideline” and “treatment”. In addition we searched the website of WONCA for links to primary care organizations in European countries; on the websites of these organizations we searched for depression guidelines. We excluded guidelines that were based on other guidelines and guidelines over ten years old.

Studies on efficacy of long-term treatment with AD in primary care

For the second question, we used four systematic search strategies. First, we searched PubMed, Embase, PsycInfo, Cinahl and the Cochrane library with keywords and free text words. Articles written in English and published until October 2009 were included. We used the following inclusion criteria: participants: adult primary care patients (no children and not only elderly people aged >64 years); intervention: continuation or maintenance treatment with antidepressant agents in primary care; comparison: placebo or no comparison; outcome: relapse or recurrence of depression; study design: randomized controlled trial, controlled trial, open trial, clinical trial, naturalistic study, (systematic) review, all with a duration of at least six months. The search string in PubMed was as follows: Depressive disorder,
Guideline recommendations for antidepressant treatment

major (Mesh) AND Antidepressive agents (Mesh) AND ("Primary Health Care"[Mesh] OR "Physicians, Family"[Mesh] OR "Family Practice"[Mesh] OR "primary care" OR "general care" OR "general health care" OR "general practice" OR "general practitioner"). In the other databases we used comparable search strings.

In order to exclude the possibility that we might have missed articles with the chosen strategy, especially because not all primary care studies mentioned that they were performed in this setting, we did two additional searches in one database (PubMed) by adding the text word “depression” and without all search terms referring to “primary care”, respectively. Either search did not reveal any additional paper.

Third, we used the so-called “snowball method” whereby we searched the reference lists of all retrieved articles for possible other relevant articles. Finally, we used Web of Science searching for articles citing the retrieved articles from our original search.

Data extraction
The search results were first screened on title and abstract for studies on long-term treatment with AD of major depressive disorder in primary care. All retrieved articles were obtained and the full text articles were read using the inclusion criteria described earlier.

Studies in specific groups of depressed patients (e.g. post-stroke depression, post-myocardial infarction depression), in children (aged less than 18 years) or the elderly (aged above 65 years) were excluded because depression course and response to AD can be different in these patients (13-15). We excluded duplicates after retrieval of full text articles, because of practical reasons.

All searches were performed by the first author, who also did most of the title and abstract screening. She consulted the other authors in case she doubted about an article. Eventual full text article selection and data extraction was done during a meeting with all authors.

Results
Guideline recommendations for long-term treatment with AD in primary care
We collected 13 depression guidelines specifically addressing or at least mentioning treatment of depression with AD in primary care. An overview of the recommendations in the guidelines for the long-term treatment with AD in primary care is found in table 1 (4-6,16-25). Although all guidelines recommended
continuation treatment with AD after remission for all patients, recommendations for duration of continuation treatment varied from 4 to 12 months. Maintenance treatment of varying durations (between 1 year and lifelong) was recommended for patients at high risk of recurrence, which each guideline defined differently. Almost all cited references in guidelines were based on studies carried out in secondary or tertiary care settings; most of these studies randomized patients within 3 months after remission and the difference between antidepressant and placebo was already achieved within 3 months after randomization (4-6,16-25). Relapse risk was 25% in the first year after remission, 42% after two years, 60% after five years and 50-85% after 15 years (3,26). The risk of relapse or recurrence increased after each subsequent episode (26).

None of the guidelines specified whether recommendations for primary care should be different than those for secondary care and no guideline referred specifically to any controlled study performed in primary care.

**Studies on efficacy of long-term treatment with AD in primary care**

The database searches identified a total of 716 titles, including duplicates, because titles were retrieved in more than one database. Reference checking and the cited reference search rendered a total of 88 records. Screening titles and abstracts yielded 27 potentially relevant articles after removing duplicates (see Figure 1).
**Table 1** Guideline recommendations for long-term treatment with antidepressant of depression in primary care

<table>
<thead>
<tr>
<th>Guideline Panel</th>
<th>Publication</th>
<th>Country</th>
<th>Duration continuation treatment*</th>
<th>Duration maintenance treatment**</th>
<th>Indications maintenance treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deutsche Gesellschaft für Psychiatrie, Psychotherapie und Nervenheilkunde (DGPPN)</td>
<td>2009</td>
<td>Germany</td>
<td>4 to 9 months</td>
<td>2 years, maybe longer</td>
<td>I, II</td>
</tr>
<tr>
<td>Institute for Clinical Systems Improvement (ICSI)</td>
<td>2009</td>
<td>United States</td>
<td>6 to 12 months</td>
<td>3 years to lifelong</td>
<td>I, II, V, VI, VII, consider for IV</td>
</tr>
<tr>
<td>British Association for Psychopharmacology</td>
<td>2008</td>
<td>Great Britain</td>
<td>6 months</td>
<td>&gt;= 5 years, indefinitely?</td>
<td>I, II, III, IV</td>
</tr>
<tr>
<td>Heyrman J, Declercq T, Rogiers R et al. (CEBAM)</td>
<td>2008</td>
<td>Belgium</td>
<td>6 months</td>
<td>&lt;= 1 year</td>
<td>I, III</td>
</tr>
<tr>
<td>New Zealand Guidelines Group</td>
<td>2008</td>
<td>New Zealand</td>
<td>6 months</td>
<td>2 years</td>
<td>I</td>
</tr>
<tr>
<td>National Institute for Clinical Excellence</td>
<td>2007</td>
<td>Great Britain</td>
<td>6 months</td>
<td>Minimum 1 to 2 years</td>
<td>I, II, III</td>
</tr>
<tr>
<td>World Federation of Societies of Biological Psychiatry (WFSBP)</td>
<td>2007</td>
<td>Diverse</td>
<td>6 to 9 months</td>
<td>Standard 3 years</td>
<td>I, II, III, IV, V, VI, VII</td>
</tr>
<tr>
<td>Agence Française de Sécurité Sanitaire des Produits de Santé (AFSSAPS)</td>
<td>2005/2006</td>
<td>France</td>
<td>4 to 12 months</td>
<td>Not mentioned</td>
<td>(Discuss in case of) I, II, IV, VII</td>
</tr>
<tr>
<td>Helsedirektoratet</td>
<td>2005</td>
<td>Norway</td>
<td>6 months</td>
<td>Not mentioned</td>
<td>Discuss with patient in I, III</td>
</tr>
<tr>
<td>Landelijke stuurgroep richtlijnontwikkeling in de GGZ</td>
<td>2005</td>
<td>Netherlands</td>
<td>6 months</td>
<td>&gt;= 1 year, consider 3-5</td>
<td>I</td>
</tr>
<tr>
<td>Camden &amp; Islington</td>
<td>2003</td>
<td>Great Britain</td>
<td>4 to 6 months</td>
<td>&gt;= 5 years, indefinitely?</td>
<td>I</td>
</tr>
<tr>
<td>Nederlands Huisartsen Genootschap (NHG)</td>
<td>2003</td>
<td>Netherlands</td>
<td>6 to 9 months</td>
<td>1-5 years, incidentally longer</td>
<td>I, II</td>
</tr>
<tr>
<td>CANadian Network for Mood and Anxiety Treatments (CANMAT)</td>
<td>2001</td>
<td>Canada</td>
<td>6 months</td>
<td>Minimum 2 years</td>
<td>I, II, V</td>
</tr>
</tbody>
</table>

* In months from time of remission  
** In years from end of continuation treatment  
I Recurrent depression  
II Episode characteristics (long/severe/chronic)  
III Residual symptoms/stressors or lack of support  
IV Concurrent other DSM-IV axis I or II disorder  
V Age <30 or >60-65  
VI Rapid relapse or recurrence in the past  
VII Family history of major depressive disorder
Of these, 18 articles were excluded because they did not concern the efficacy of long-term treatment with AD in primary care or did not have relapse risk as an outcome measure; two studies were not performed (solely) in primary care; and one article, which was the only study from primary care frequently referred to in guidelines, proved to be a retrospective case-note-audit conducted in primary care, not addressing the relationship between AD use and relapse (27). We were unable to acquire four articles. In summary, after reading the full-text articles, two publications remained (28,29). Neither of them was a placebo-controlled study performed in primary care that addressed the efficacy of AD in the prevention of relapse or recurrence in major depressive disorder.

One study was an RCT involving 197 patients comparing the efficacy and tolerability of mirtazapine (n=99) and paroxetine (n=98) during 24 weeks in patients with a major depressive episode. Only 91 patients (46.1%) completed the study, while remission was obtained in 35 patients (35%) receiving mirtazapine and 22 patients (22%) receiving paroxetine. After remission, in both groups 2 patients relapsed before the end of the study at 24 weeks. The authors did neither mention how many patients were actually followed after remission nor for how long (29).

The second study involved 1031 primary care patients with DSM-IV major depression who had been participants in another study (30). All patients were treated with sertraline for 24 weeks, which resulted in remission in 59% of patients. Patients (including non-remitters and non-responders) were naturalistically followed-up for up to 2 years. During this follow-up the general practitioner made all decisions about treatment. Depression outcome was compared for patients who were adherent to treatment with AD versus non-adherent patients. Overall relapse or recurrence rates were not statistically different between groups, but adherent patients (mean time to relapse 302 days) had a longer mean time to relapse or recurrence than non-adherent patients (mean time to relapse 249 days) (28).
Guideline recommendations for antidepressant treatment

Discussion

Our main findings are that the available guidelines do not specify that recommendations in primary care might be different from recommendations in secondary care with respect to continuation and maintenance treatment with AD. Moreover, there is a paucity of research investigating the efficacy of long-term treatment with antidepressants in primary care.

A limitation of this review is that we were unable to acquire all existing guidelines. Furthermore, we could not acquire all potentially interesting full text articles. Finally, we limited our search to articles published in the English language. The strength of this review is the comparison between guideline recommendations and evidence. Guidelines are used in everyday practice of primary care, and they are often thought to contain a high level of evidence. However, it is not always clear whether primary care guidelines are based on evidence from primary care.

Overall, guidelines recommend the continuation of treatment with AD for all
patients for a period of 4, 9 or even 12 months. Maintenance treatment for a longer period (i.e. between 1 year and lifelong) is recommended for patients at high risk of recurrence, which each guideline defines differently. However, the guidelines do not specify that recommendations are actually based on studies in secondary or tertiary care.

Our systematic search did not identify any placebo-controlled RCT to support the efficacy of continuation or maintenance treatment with AD in primary care. The two studies we found provided only circumstantial evidence suggesting that long-term treatment with AD can reduce relapse or recurrence rates (28,29). This raises the question on which studies the guidelines base their ‘level 1’ evidence. Guidelines refer to many studies with respect to optimal duration of treatment with AD after having achieved remission. In their recent meta-analysis of 30 placebo-controlled RCTs on long-term treatment with tricyclic antidepressants (TCAs) or selective serotonin reuptake inhibitors (SSRIs), Kaymaz et al. found a significant relapse-reducing effect of antidepressants compared to placebo at 3, 6, 9, as well as 12 months of follow-up. However, they also showed that the difference between antidepressant and placebo was achieved within 3 months after randomization, while no additional reduction in risk was observed at further follow-up (8). With the exception of two very small trials including a total of 32 patients, there were no studies in which patients were randomized after 3 months of remission (8). Thus, it can be concluded that the recommendations for the use of antidepressants in continuation treatment (i.e. during the first 3-6 months after remission to prevent relapse) are evidence based. However, good quality evidence is lacking for recommendations on the category of patients for whom maintenance treatment is appropriate, and on the duration of maintenance treatment. Furthermore, guideline recommendations for long-term treatment are only based on studies in patients treated in secondary care or specialized research settings and not for patients treated in primary care. Although one could argue that there are no strong arguments that recommendations on maintenance treatment with antidepressants in primary care should be different form secondary care, we conclude that they cannot be considered evidence-based. Hence, clinicians should be cautious with too strictly following the guidelines and instead may adjust the indication for long-term treatment to fit each patient’s need. Finally, we conclude that further studies on the long-term treatment with antidepressants in primary care are warranted.
Conclusion
Whereas depression guidelines recommend long-term (maintenance) treatment with antidepressants for both primary and secondary care patients with recurrent depressive episodes, it remains unclear whether these recommendations apply for patients in primary care.
Guideline recommendations for antidepressant treatment

References


Guideline recommendations for antidepressant treatment


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