Efficacy of two interventions on the discontinuation of benzodiazepines in long-term users: 36-month follow-up of a cluster randomised trial in primary care

INTRODUCTION
Clinicians mainly prescribe benzodiazepines (BZDs) to treat anxiety and insomnia, or as adjuvants in treatment of depression. Long-term BZD use is widespread in Spain1,2 and many European countries,3 although international guidelines specifically recommend short-term use4 because long-term use can increase the risk of cognitive impairment,5,6 falls, fractures,7 and mortality.8,9 Despite these potentially harmful consequences, many physicians prescribe BZDs for long durations, GPs issue most of these prescriptions,1,2,10 so withdrawal also should be managed in this setting; however, doctors and patients often consider BZD discontinuation as very challenging. Previous studies have evaluated different approaches to discontinuation.13 These include simple interventions, such as a letter with advice about how to stop BZD use14,15 and a brief interview with a GP followed by stepped-dose reduction,16–18 and more complex interventions that provide psychological19–21 or pharmacological support. GPs typically have busy schedules and limited time for consultation, so interventions designed for this setting should be inexpensive, brief, and easily implemented.

Evidence supports the efficacy of certain short-term interventions (6–12 months) for cessation of BZDs in long-term users in the primary care setting.11,12,15,16–18 However, there is limited evidence about the long-term efficacy of these interventions. A previous clinical trial of BZD discontinuation19 indicated that a structured intervention with follow-up visits (SIF) or structured intervention with written instructions (SIW) led to significant reductions in long-term benzodiazepine use at 12 months. The interventions were three times more effective than usual care, with an absolute reduction in long-term consumption of 30%. The present study aimed to assess the efficacy of this intervention at 36 months.

METHOD
Study design
This study was a three-arm, parallel, multicentre, three-arm, cluster randomised, controlled trial, with random allocation at the GP level.

RESULTS
At 36 months, 66/168 patients (39.2%) in the SW group, 79/191 patients (41.3%) in the SIF group, and 45/173 patients (26.0%) in the control group had discontinued BZD use. The relative risks (RR) adjusted by cluster were 1.51 (95% CI = 1.10 to 2.05; P = 0.009) in the SW group and 1.59 (95% CI = 1.15 to 2.19; P = 0.005) in the SIF group. A total of 131/188 patients (69.7%) who successfully discontinued BZD use at 12 months remained abstinent at 36 months. The groups showed no significant differences in anxiety, depression, or sleep dissatisfaction at 36 months.

CONCLUSION
Design and setting
Multicentre, three-arm, cluster randomised, controlled trial, with random allocation at the GP level.

Method
Seventy-five GPs and 532 patients were randomly allocated to three groups: usual care (control), structured intervention with stepped-dose reduction and follow-up visits (SIF), or structured intervention with written stepped-dose reduction (SIW). The primary outcome was BZD use at 36 months.

Aim
To assess the 3-year efficacy of two primary care interventions delivered by GPs on cessation of BZD use in long-term users.

Abstract
Background
Primary care interventions that promote cessation of benzodiazepine (BZD) use in long-term users are effective at 1 year, but their efficacy at 3 years is uncertain.

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multicentre, cluster randomised trial carried out in three regions of Spain (Balearic Islands, Catalonia, and the Valencian Community). Randomisation was at GP level, and stratified by region. GPs recruited the patients before randomisation; cluster randomisation was used to avoid potential cross-contamination bias. A detailed research protocol and details of the efficacy of the SIF and SIW interventions after 12 months were published elsewhere. Patients were recruited between November 2010 and February 2011. Results are presented of the 36-month assessments carried out between November 2013 and February 2014. The study design, procedures, and reporting followed the CONSORT guidelines for cluster randomised controlled trials (Trial Registration: ISRCTN13024375).

Participants and recruitment
Patients aged 18–80 years who had been taking BZDs daily for at least 6 months were randomly selected from the computerised prescription databases of primary care physicians. GPs were asked to include eight patients from their list of patients. The exclusion criteria were patients with: psychotic disorder, severe personality disorder, alcohol or illicit-drug abuse, anxiety or depressive disorder and currently being treated by a psychiatrist, severe medical or terminal illness, or currently hospitalised. Patients were also excluded if the GP believed that cessation of BZD use may be harmful and if they were unable to read and speak Spanish.

Randomisation
Each region enrolled 25–30 GPs. After they had been selected and patients included in the trial, GPs in each of the three regions were randomised 1:1:1 to one of the three study arms using a computer-generated block randomisation in blocks of six GPs. Randomisation and concealment were centralised through a single coordinating centre, and the sequence was concealed from patients and GPs until interventions were assigned.

Interventions
After the GPs were randomised, those allocated to the intervention arms attended a 2-hour workshop on BZD discontinuation. The SIF and SIW were based on an initial structured educational interview with individualised stepped-dose reduction. Patients allocated to the SIF group were scheduled for follow-up appointments with their GPs every 2–3 weeks until the end of the dose reduction period; patients allocated to the SIW group received written instructions with reinforcing information and a tailored gradual dose-reduction until cessation.

The educational interview was structured and had four key points:

• information on BZDs, dependence, abstinence, and withdrawal symptoms;
• the risks of long-term use, and effects on memory, cognitive impairment, accidents, and falls;
• reassurance about reducing medication; and
• a self-help leaflet to improve sleep quality if patients were taking BZDs for insomnia.

The tailored gradual taper consisted of a 10–25% reduction in the daily dose every 2–3 weeks. GPs were allowed to switch from use of a BZD with a short half-life to a BZD with a long half-life.

Patients allocated to the control group were given routine care, and GPs did not receive any specific recommendation about the management of these long-term BZD users.

Primary and secondary outcomes
The primary endpoint was BZD cessation, defined as no prescription in the last 6 months. A single prescription for <30 doses during the whole 6-month period was also considered successful. The outcome was assessed by prescription claims in the clinical records, and evaluated by collaborating researchers who were blinded to patient allocations. The statistician and data-entry staff were also blinded to allocations.

The secondary outcomes were the presence of anxiety, depression, and sleep satisfaction. Anxiety and depression were measured using the Hospital Anxiety and Depressive Scale (HADS).
Patients agreeing to participate (n = 532)

SIF arm: 191 patients, 26 GPs
- No longer contactable (n = 6)
- Major morbid event (n = 4)
- Withdraw consent (n = 3)

SIW arm: 168 patients, 24 GPs
- Death (n = 1)
- No longer contactable (n = 11)
- Major morbid event (n = 3)

Control arm: 173 patients, 25 GPs
- Protocol exclusion (n = 2)
- Major morbid event (n = 2)
- Withdraw consent (n = 2)

Figure 1. Flow of patients and GPs through the study. SIF = intervention group with follow-up visits. SIW = intervention group with written instructions.

Depression Scale (HADS), a 14-item, 4-point Likert-type scale with a range of 0 (no symptoms) to 3 (severe symptoms) for each item. This scale was validated for general hospital patients and patients in primary care, and cross-culturally validated for the Spanish language.

Sleep satisfaction was assessed through the Oviedo Sleep Quality Questionnaire satisfaction subscale (Oviedo), a 7-point Likert-type scale that ranged from 1 (not satisfied) to 7 (very satisfied). Research collaborators not involved in the study and unaware of patient allocation evaluated the secondary outcomes by telephone interview.

### Table 1. Baseline characteristics of patients in the control, SIW, and SIF groups

<table>
<thead>
<tr>
<th>Baseline characteristic</th>
<th>Control group, n/N(%)</th>
<th>SIW group, n/N(%)</th>
<th>SIF group, n/N(%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>62 (64–70)</td>
<td>65 (68–72)</td>
<td>65 (64–72)</td>
</tr>
<tr>
<td>Female</td>
<td>116 (171) (67.8)</td>
<td>120 (163) (73.6)</td>
<td>139 (187) (74.3)</td>
</tr>
<tr>
<td>Reason for initial prescription</td>
<td>122/171 (71.3)</td>
<td>104/164 (63.4)</td>
<td>113/185 (61.1)</td>
</tr>
<tr>
<td>Anxiety</td>
<td>128 (171) (74.9)</td>
<td>109/163 (66.9)</td>
<td>121 (186) (65.1)</td>
</tr>
<tr>
<td>Depression</td>
<td>46/171 (26.9)</td>
<td>54/162 (33.3)</td>
<td>53/185 (28.6)</td>
</tr>
<tr>
<td>Insomnia</td>
<td>128/171 (74.9)</td>
<td>109/163 (66.9)</td>
<td>121/186 (65.1)</td>
</tr>
<tr>
<td>Pain</td>
<td>20/171 (11.7)</td>
<td>17/163 (10.4)</td>
<td>21/185 (11.3)</td>
</tr>
<tr>
<td>Prescribing physician</td>
<td>135/170 (79.4)</td>
<td>121/162 (74.7)</td>
<td>125/184 (67.9)</td>
</tr>
<tr>
<td>Psychiatrist</td>
<td>17/70 (10.0)</td>
<td>17/162 (10.5)</td>
<td>27/184 (14.7)</td>
</tr>
<tr>
<td>Months taking BZD</td>
<td>48 (24–96)</td>
<td>60 (24–120)</td>
<td>60 (28–120)</td>
</tr>
<tr>
<td>Use of short half-life BZD</td>
<td>149/173 (86.1)</td>
<td>143/168 (85.1)</td>
<td>159/191 (83.2)</td>
</tr>
<tr>
<td>Equivalent dose &gt;10 mg diazepam</td>
<td>55/173 (31.8)</td>
<td>46/168 (27.4)</td>
<td>53/191 (27.7)</td>
</tr>
<tr>
<td>Insomnia ICD-10, Oviedo questionnaire</td>
<td>37/167 (22.2)</td>
<td>27/159 (17)</td>
<td>27/186 (14.5)</td>
</tr>
<tr>
<td>SDS score</td>
<td>5 (3–8)</td>
<td>5 (3–7)</td>
<td>5 (3–8)</td>
</tr>
<tr>
<td>HADS anxiety</td>
<td>7.5 (4–11)</td>
<td>7 (4–12)</td>
<td>9 (6–12)</td>
</tr>
<tr>
<td>HADS depression</td>
<td>5 (2–7)</td>
<td>5 (2–8)</td>
<td>5 (2–8)</td>
</tr>
<tr>
<td>Sleep satisfaction, Oviedo questionnaire</td>
<td>4 (3–6)</td>
<td>4 (3–5)</td>
<td>4 (3–5)</td>
</tr>
</tbody>
</table>

*Median (IQR, interquartile range). BZD = benzodiazepine. HADS = Hospital Anxiety and Depression Scale. ICD = International Classification of Diseases. SDS = Severity Dependence Scale. SIF = intervention group with follow-up visits. SIW = intervention group with written instructions.

### Statistical analysis

BZD discontinuation at 36 months was analysed at the patient level on an intention-to-treat basis with adjustment for data clustering.

The sample size was based on the effectiveness at 12 months to detect a difference in the proportion of patients who had discontinued BZD of at least 20% and 15% in the SIF and SIW groups, respectively. Using an intracluster correlation of 0.0428 to allow for clustering, a cluster size of eight, and 25% patients assumed lost to follow-up, the aim was to recruit 495 patients and 63 GPs.

The estimated relative risk (RR) of patients in each group was adjusted for clustering by use of a log link in a binomial distribution of a robust generalised estimating equation (GEE) and an exchangeable correlation structure. The absolute risk reduction (ARR) and number needed to treat (NNT) were calculated from the estimated RR. Categorical variables are reported as numbers and percentages.

A between-group analysis of HAD scores and sleep satisfaction (using the Oviedo Sleep Quality Questionnaire) was performed using Somers’ D rank statistics. Within-group analysis was carried out by a paired-sample Somers’ D rank test. Median differences between groups and within groups were calculated and reported by the Hodges–Lehmann and von Mises estimators for clustering data, respectively. Statistical significance was set at 5%. Stata (version 11.0) was used for all analyses.

### RESULTS

Patient disposition

There were 532 patients initially enrolled in the trial (Figure 1). Thirty-five patients (6.6%) were lost at 12 months (11 in the SIF group, 11 in the SIW group, and 13 in the control group) and 86 patients (16.2%) were lost at 36 months (33 in the SIF group, 27 in the SIW group, and 26 in the control group). The primary outcome was based on prescription claims in the clinical records, however, so data on BZD use were available for 506 (95.1%) patients, with 26 lost to follow-up (six in the control group, seven in the SIF group, and 13 in the SIW group).

The median age of participants was 64 years and 72% were female (Table 1).
The three groups showed no significant differences in any of the recorded baseline characteristics. The main reasons for initial BZD prescription were insomnia (68.8%), anxiety (65.2%), and depression (29.5%), and the median treatment duration was 60 months. Most prescriptions (73%) were issued by GPs and 85% of patients were taking a BZD with a short half-life.

**Primary and secondary outcomes**
Table 2 shows the efficacy of the treatments. At 36 months, 66/168 patients (39.2%) in the SIW group and 79/191 patients (41.3%) in the

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**Table 2. Cessation of benzodiazepine use in the three groups at 12 months and 36 months**

<table>
<thead>
<tr>
<th></th>
<th>12 months</th>
<th></th>
<th>36 months</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cessation of BZD, n/N (%)</td>
<td>RR</td>
<td>95% CI</td>
<td>P-value</td>
</tr>
<tr>
<td>Control group</td>
<td>26/173 (15.0)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>SIW group</td>
<td>76/168 (45.2)</td>
<td>3.01</td>
<td>2.03 to 4.64</td>
<td>&lt;0.0001</td>
</tr>
<tr>
<td>SIF group</td>
<td>86/191 (45.0)</td>
<td>3</td>
<td>2.04 to 4.40</td>
<td>&lt;0.0001</td>
</tr>
</tbody>
</table>

BZD = benzodiazepine. RR = relative risk. SIF = intervention group with follow-up visits. SIW = intervention group with written instructions.

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**Table 3. Cessation of benzodiazepine use at 36 months in patients who did and did not stop use at 12 months**

<table>
<thead>
<tr>
<th>Cessation of BZD at 36 months, n/N (%)</th>
<th>No cessation of BZD at 36 months, n/N (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cessation of BZD at 12 months</td>
<td></td>
</tr>
<tr>
<td>SIF group (86/191)</td>
<td>64/86 (74.4)</td>
</tr>
<tr>
<td>SIW group (76/168)</td>
<td>49/76 (64.5)</td>
</tr>
<tr>
<td>Control group (26/173)</td>
<td>18/26 (69.2)</td>
</tr>
<tr>
<td>No cessation of BZD at 12 months</td>
<td></td>
</tr>
<tr>
<td>SIF group (105/191)</td>
<td>15/105 (14.3)</td>
</tr>
<tr>
<td>SIW group (92/168)</td>
<td>17/92 (18.5)</td>
</tr>
<tr>
<td>Control group (147/173)</td>
<td>27/147 (18.4)</td>
</tr>
</tbody>
</table>

Missing values at 12 and 36 months are considered as no cessation. BZD = benzodiazepine. SIF = intervention group with follow-up visits. SIW = intervention group with written instructions.

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**Table 4. Between-group analysis of anxiety, depression, and sleep satisfaction in the three groups at 36 months**

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Control group</th>
<th>P-value</th>
<th>Control versus SIW</th>
<th>Control versus SIF</th>
<th>P-value</th>
<th>SIW versus SIF</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HADS anxiety</td>
<td>0 (1-1 to 1)</td>
<td>0.437</td>
<td>0 (1-1 to 1)</td>
<td>0.912</td>
<td>0 (1-1 to 1)</td>
<td>0.525</td>
<td></td>
</tr>
<tr>
<td>HADS depression</td>
<td>0 (1-1 to 0)</td>
<td>0.335</td>
<td>0 (0 to 0)</td>
<td>0.724</td>
<td>0 (0 to 0)</td>
<td>0.471</td>
<td></td>
</tr>
<tr>
<td>Sleep satisfaction</td>
<td>0 (1-1 to 0)</td>
<td>0.909</td>
<td>0 (0 to 0)</td>
<td>0.954</td>
<td>0 (0 to 0)</td>
<td>0.940</td>
<td></td>
</tr>
</tbody>
</table>

Median difference (95% CI) at 36 months. BZD = benzodiazepine. HADS = Hospital Anxiety and Depression Scale. SIF = intervention group with follow-up visits. SIW = intervention group with written instructions.

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**Table 5. Within-group analysis of changes in anxiety, depression, and sleep satisfaction in the three groups from baseline to 36 months**

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Control group</th>
<th>P-value</th>
<th>SIW group</th>
<th>P-value</th>
<th>SIF group</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HADS anxiety</td>
<td>-3 (-1 to 3)</td>
<td>0.548</td>
<td>-2 (-3 to 1)</td>
<td>0.120</td>
<td>-4 (-2 to 1)</td>
<td>0.529</td>
</tr>
<tr>
<td>HADS depression</td>
<td>-2 (-2 to 1)</td>
<td>0.570</td>
<td>-2 (-2 to 1)</td>
<td>0.556</td>
<td>-2 (-2 to 1)</td>
<td>0.231</td>
</tr>
<tr>
<td>Sleep satisfaction</td>
<td>0 (-1 to 1)</td>
<td>0.285</td>
<td>1 (-1 to 1)</td>
<td>0.649</td>
<td>1 (-1 to 1)</td>
<td>0.543</td>
</tr>
</tbody>
</table>

Median difference (95% CI) between baseline and 36 months. HADS = Hospital Anxiety and Depression Scale. SIF = intervention group with follow-up visits. SIW = intervention group with written instructions.
SIF group had discontinued BZD use, but only 45/173 patients (26.0%) in the control group had discontinued BZD use. The RR adjusted by cluster was 1.51 (95% CI = 1.10 to 2.05; P = 0.009) for the SIW group and 1.59 (95% CI = 1.15 to 2.19; P = 0.005) for the SIF group; there were no significant differences between the SIF and SIW groups. Relative to the control group, the ARR was 13.2% for the SIW group and 15.3% for the SIF group. The NNT to achieve one patient withdrawal from BZD use at 36 months was seven (95% CI = 4 to 26) in the SIW group and six (95% CI = 4 to 16) in the SIF group.

Two-thirds (69.7%) of patients who were withdrawn at 12 months remained BZD-free at 36 months. Moreover, 17% of patients discontinued between the 12- and 36-month evaluations (Table 3).

Tables 4 and 5 show the secondary outcomes. A between-group analysis at 36 months indicated that the three groups had no significant differences in HADS anxiety score, HADS depression score, and sleep satisfaction. However, within-group analysis indicated a significantly lower HADS anxiety score in the SIF group at 36 months relative to baseline.

**DISCUSSION**

**Summary**

The main finding of this study of different treatments on BZD cessation in long-term users is that the SIW and SIF interventions, accompanied by a tailored stepped-dose reduction, are up to 1.5 times more effective than routine care in discontinuing long-term benzodiazepine use. Both interventions have similar efficacy but the approach without follow-up visits required less involvement and fewer visits to the GP.

The NNT analysis indicates that a GP needs to treat six patients (SIF) or seven patients (SIW) for one patient to discontinue BZD use at 36 months. The RR and the ARR for the SIF and SIW are halved with respect to the 12-month evaluation.29 Approximately 70% of the patients who stopped BZD use at 12 months remained abstinent at 36 months; among those still taking BZD at 12 months, about 17% had stopped use at 36 months.

The interventions used in the present study can be considered safe as they did not increase anxiety, depression, or sleep dissatisfaction compared with the control group at 12 and 36 months. Moreover, discontinuing long-term BZD use did not worsen anxious or depressive symptoms or sleep satisfaction. Patients improved in all three of these measures at 3 years after the intervention, although the reduction in anxiety was only statistically significant for the SIF group.

**Strengths and limitations**

The present study is the largest randomised clinical trial to evaluate the 3-year efficacy of interventions designed to promote cessation of BZD use in long-term users. The study had a high internal validity and the sample size was large enough to detect small differences between the groups. Moreover, patients were included before randomisation, and few patients were lost to follow-up, thus limiting the effect of selection bias.

Previous studies have used different definitions for cessation of BZD use. Some studies considered a patient to be withdrawn if there were no prescriptions at all; in the present study, a patient was considered to be withdrawn if there were no prescriptions or a prescription of fewer than 30 doses in the last 6 months. Thirty doses were chosen because most drug packages in Spain include 30 pills. Moreover, in the present study the primary outcome was assessed by prescription claims data, a more reliable measure of consumption than self-reported data from interviews.

This study excluded patients with severe comorbidities, and this limits the generalisability of results to more-difficult-to-treat patients, such as those with severe medical or psychiatric disease and those under psychiatric care.

GPs in the control group applied ‘usual care’ to their patients. ‘Usual care’, however, has different meanings to different GPs and in different health systems. This may also affect the generalisability of the results regarding the efficacy of the interventions.

**Comparison with existing literature**

Previous studies have evaluated the efficacy of non-pharmacological interventions for long-term discontinuation of BZD use.29–33 Some of these studies, however, lacked control groups, some only followed patients who stopped use after 3, 6, or 12 months,30–32 and some had control groups composed of patients who simply refused to participate in the intervention programmes.33 To the authors’ knowledge only one previous long-term clinical trial on cessation of BZD used a randomised control group.29 The efficacy of a structured intervention with follow-up visits at 36 months was similar in that previous study, which also showed decreased efficacy of the intervention over the long term.

The percentage of patients who remained abstinent from 12 to 36 months was slightly
higher in the present study than in previous studies. The abstinence rates in these other studies ranged from 49% [minimal intervention with a discontinuation letter] to 69.2% [supervised medication tapering programme]. De Gier and colleagues conducted a 10-year follow-up study of patients who had discontinued BZDs after receiving a letter promoting cessation. They reported that 59% of patients were completely abstinent at 10 years after the intervention, and up to 73% were abstinent or had minimal use of BZDs (five or fewer doses per month during the previous 6 months).

BZDs are mainly prescribed for treatment of anxiety, insomnia, and depression, and the presence of stressors can change over time. Thus, relapse of BZD use may be considered a treatment option when a patient experiences severe anxiety or insomnia in the context of stressful life events.

**Implications for research and practice**
Qualitative studies of GPs highlight that decisions regarding prescription of BZDs in primary care are complex, and that GPs are often uncomfortable in making these decisions because of their time constraints, high workload, and lack of accessibility to non-pharmacological options. GPs are increasingly aware of the risks of BZDs, however. A more patient-centred practice in which a GP listens to a patient’s expectations and empathetically provides explanations about the benefits and drawbacks of treatment may help them in their decisions to initiate, continue, or withdraw BZD prescriptions.

In conclusion, SIW and SIF interventions are effective for helping patients to stop using BZDs, and are not associated with increases in anxiety, depression, or sleep dissatisfaction in the long term. GPs can apply these interventions in their practices easily for patients without severe comorbidities, and may choose either intervention according to the needs of the patient and physician. Thus, more busy practices may choose an intervention without follow-up visits, which is as effective as the intervention with follow-up visits but less time consuming. Alternatively, other GPs may choose to offer a more intensive approach with follow-up visits for patients with a higher disease burden or with more severe BZD dependence.

A large number of patients take BZD on a long-term basis, and there is growing evidence of the negative effects of long-term use. Thus, future research should assess the efficacy of the systematic implementation of these interventions by different GPs and evaluate the potential impact of different training strategies for reduction of long-term BZD consumption.
REFERENCES


