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Exploration of GP perspectives on deprescribing antidepressants: a qualitative study

Dervla Kelly, Justin Graffi, Maria Noonan, Philip Green, John McFarland, Peter Hayes, Liam Glynn


ABSTRACT

Objective Our aim was to explore general practitioners’ (GPs) perceptions and experiences of discontinuing antidepressants.

Study design A qualitative study using semistructured interviews was undertaken between July 2019 and March 2020. The interviews were transcribed and analysed using a themetic analysis framework.

Setting GPs affiliated with a university education and research network for general practice in Ireland.

Participants A purposive sample of GPs (n=10).

Results Five themes emerged: shared decision-making; personalised therapy; medication-tapering toolkit; health service factors and concerns around tapering. GPs described being less likely to engage in deprescribing for patients with long-term and/or recurrent depression, older patients and those with comorbidities due to fear of relapse. Access to evidence-based psychological therapies, guidelines, information on rates of relapse, patient leaflets on discontinuing antidepressants and reminder prompts on GP-prescribing software were suggested to optimise appropriate antidepressant discontinuation. There was some suggestion that patients may use antidepressants for longer when talk therapy is not available or taken up.

Conclusions GPs are largely confident in their role of managing mild-to-moderate depression and deprescribing antidepressants. This study provides an insight into factors that influence GPs’ decisions to deprescribe antidepressants. More information on rates of relapse after discontinuation would be helpful to inform decision-making.

INTRODUCTION

In 2015, Ireland’s most recent census identified that 8% of residents reported attending consultations for moderate-to-severe depression in the past 2 weeks.1 Similarly, the prevalence of depression in the UK is reported to be 9.9%.2 In Ireland, and internationally, the majority of cases of depression are managed in the community by general practitioners (GPs).3-5 Antidepressant drugs such as selective serotonin reuptake inhibitors (SSRIs) and serotonin norepinephrine reuptake inhibitors (SNRIs) are frequently prescribed as part of a broader treatment plan involving psychological therapy, exercise and other non-pharmacological treatments. Antidepressants are generally recommended as first-line treatment in patients whose depression is of at least moderate severity.6 Of this group, approximately 50% will respond to antidepressant drug therapy.6

It is recommended that patients taking antidepressants be regularly reviewed to monitor how well the treatment is working, adherence, side effects, as well as to ensure that long-term use remains clinically indicated.7 The normal course of antidepressant treatment should last at least 6 months after full symptom remission. In patients with a history of recurrent depression or those who are at higher risk of relapse, antidepressant treatment should continue for at least 2 years. Continued maintenance therapy is only indicated in patients with a history of severe depression (eg, suicide
Deprescribing of antidepressants should be considered after 6 months of full symptom remission. Deprescribing is the planned and supervised process of dose reduction or stopping of medication that might be causing harm or might no longer be providing benefit. The goal of deprescribing is to reduce medication burden and harm while maintaining or improving quality of life which aligns with the National Patient Safety Strategy 2019–2024. While some people need antidepressants to prevent relapse/recurrence, 30%–50% of long-term users have no evidence-based indication to continue their medication. Deprescribing typically takes place during medication reviews. There is currently no standardised approach to medication reviews in Ireland. The National Medicines Management programme in Ireland has one deprescribing guidance document for benzodiazepines. Current UK guidelines suggest when stopping an antidepressant, gradually reduce the dose over a 4-week period. Beyond that, detailed professional-approved guidelines for GPs on tapering and discontinuing antidepressants are not available.

Few researchers have explored GPs’ views and experiences of deprescribing antidepressants. The issues of risk of relapse, personal circumstances of the patients, expectations on responsibility for initiating discontinuation and organisational constraints of general practice have previously been identified as factors that influence deprescribing decisions. Furthermore, a recent systematic review concluded that further research is required to explore GPs’ perspectives on antidepressant discontinuation as an understanding of GPs’ views may support the development of safe and effective approaches to deprescribing antidepressants.

This study sets out to qualitatively explore GPs’ perceptions and involvement in discontinuing antidepressant use. To our knowledge, this is the first study to investigate GPs’ role in deprescribing in the Irish context. Understanding deprescribing processes in primary care is an important step in designing policy initiatives and healthcare systems to optimise appropriate antidepressant discontinuation. The reporting of this study was informed by Consolidated criteria for Reporting Qualitative research criteria.

METHODS
An exploratory qualitative design was chosen for this study as its emphasis on the environment, meaning and experience was considered appropriate to enable researchers to gain an in-depth understanding of participants’ experiences and clinical decision-making in relation to discontinuing antidepressants in primary care.

Purposive sampling was employed to ensure maximum variation in recruitment of GPs with a broad range of experience, practising in both urban and rural practices and providing care for patients from diverse social and cultural backgrounds. Recruitment was via a network of GP tutors affiliated with the ULEARN-GP network, a nationally represented network of GP practices. GPs were contacted by email and invited to participate (N=20). Those who agreed to participate were sent information packs, which included a letter of introduction, information leaflet and a consent form.

Data collection was undertaken from July 2019 to March 2020. Interviews were guided by a pilot-tested structured interview consisting of open-ended questions and probes developed after a preliminary review of the literature and through discussion with the research team which included GPs (see online supplemental table 1). GPs were asked to discuss their experiences of deprescribing antidepressants in general practice.

Interviews took place at a time and venue that suited the GP. Before the interviews began, participants had time to ask questions about the study and consider participation prior to giving written consent. All interviews were recorded digitally with consent, lasted 20–60 min (average length of 28 min) and were conducted by two researchers (PG and JG), both graduate entry medical students under the supervision of DK. In addition, following each interview, the researcher reflected on data collection and documented brief field notes to capture contextual details, summarise main ideas, identify emerging codes as data collection and analysis proceeded in parallel. Data collection ceased after 10 interviews were conducted as data saturation appeared to occur initially after eight interviews with the final two interviews serving to test the evolving themes. As no new codes were identified in the final two interviews, we concluded data saturation had occurred.

All interview audio files and transcriptions were stored in compliance with the Irish General Data Protection Regulations. Interviews were transcribed verbatim by one member of the research team, anonymised and accuracy confirmed by reading transcriptions while listening to original interviews. Braun and Clarke’s (2013) framework informed thematic data analysis. Codes and themes iteratively derived from the data were discussed and agreed by authors (DK, JG, MN) who met biweekly to review and compare summaries. Where we disagreed on meaning, we revisited the original interview transcripts to seek clarification and to attain a consensus on interpretation. Disconfirming evidence was identified and presented in the final analysis. Rigour was ensured by methodological coherence and sampling adequacy and an iterative process of data analysis which involved three researchers (DK, JG, MN) in coding and confirmation of themes. Furthermore, two general practitioners (PH...

and LG) participated in a reflective session to review and refine themes and to ensure that the findings captured a GP perspective. Thematic development is presented in online supplemental table 2.

RESULTS
Demographic details of GPs interviewed (n=10) are provided in table 1.

The data were categorised into five themes: shared decision-making; personalised therapy; medication-tapering toolkit; health service factors and concerns around tapering (table 2).

Theme 1: shared decision-making
This theme explores the factors that influence GPs’ decisions around discontinuing antidepressants.

Participants identified that a shared decision-making process was ideal and that, where possible, decisions to discontinue antidepressants were made in conjunction with patients. While in some cases patients took the lead in requesting a consultation to begin the process of discontinuing antidepressants, in the majority of cases it was the GP who opened the conversation around deprescribing: ‘My decision to stop the medication is usually very much in conjunction with the patient and sometimes led by them’ (GP1).

GPs revisited the conversation around deprescribing at a later time in response to patients who were reluctant to discontinue. GPs also acknowledged the ‘nebulous nature of depression’ and that many of the patients had complex reasons for ‘not wanting to rock the boat’ (GP6).

If someone really doesn’t want to come off, certainly I think that it’s something you revisit when you see them but you’re not going to force somebody off a medication if they feel that it is doing them some good and they want to stay on it. (GP7)

All participants recognised that patients sometimes discontinue antidepressants without medical guidance. GPs expressed concerns about the risk of relapse for patients who engaged in antidepressant self-discontinuation.

A lot of patients would come back in and you might see them in six months’ time and it emerges that they have taken themselves off. (GP9)

‘They come in and they’ve relapsed because they’ve just stopped it themselves because they felt good, I’m doing great and I don’t need these anymore. So that can be I suppose patient led deprescribing’ (GP4). In complex cases, the decision would be made by or in conjunction with a multidisciplinary team particularly where patients experienced severe or enduring mental health conditions.

Participants often identified the importance of having access to advise from colleagues in psychiatry for patients with complex presentations, severe and long-term illness, an initial diagnosis of refractory depression, co-occurring mental health conditions, substance dependency and for patients who had suicidal ideation or intent.

I think it’s really important that we have the safety component of secondary care backup if needed. That you know there is a pathway there. That you can speak with somebody in psychiatric care for advice if needed; that you can refer someone quickly if needed. (GP5)

Some participants suggested that the decision to discontinue antidepressants was the responsibility of the psychiatrist in cases where the patient was under the care of the mental health team. Participants frequently identified the challenges of deprescribing for patients who are on long-term antidepressants which were originally prescribed by the psychiatrist but who are no longer under the care of the psychiatrist.

They are particularly concerned about stopping it because they’ll say well the psychiatrist started the tablet, why are you stopping it and you’re, what happens
if this is the wrong course and all that. So they’re, an even harder group to try and manage: when they’ve been started by someone else many years ago. (GP4)

**Theme 2: personalised therapy**
This theme describes the context that influences GPs’ decision-making process around deprescribing. The following two subthemes were identified as influencing discontinuation and patient outcomes: medical factors and psychosocial factors.

**Medical factors**
The length of time the patient was taking antidepressants is one factor that GPs considered when deciding about deprescribing. Generally, GPs had their own protocols in relation to length of time that patients should stay on antidepressants and this varied between participants from 6 months to 1 year. Decisions around length of treatment were based on individual patient needs such as patient age and whether it was a first episode or recurrence of depression.

A young girl in her twenties. I would leave them on it for at least a year... If you've got an elderly person who’s got, a lot going on, then I would tend to leave them. (GP3)

For a recurrent depressive episode ... it would be a longer course of treatment.... If they had particularly bad episodes in the past, then they might need long term antidepressants. (GP10)

All participants took into account the patients’ functional response to treatment, when deciding to discontinue antidepressant medication.

Are they functioning better within their life and their family and their work context. Whether they feel that they are fully recovered. That they feel that they’ve been well for a significant number of months. (GP1)

Sometimes the decision was to leave patients with chronic depression on medication.

And then very elderly patients too who have a lot of co-morbid illness, chronic disease.... People who have a history of drug addiction, a history of alcoholism. (GP10)

**Psychosocial factors**
When making decisions about the timing of antidepressant discontinuation, participants considered the person’s current life circumstances such as changes in employment, upcoming events and support networks.

So we can look back at periods of stability, but then also look forward to any events coming up that may be stressful events. But if they are saying in the next three to four months I don’t expect anything unusual. I don’t have any big family events or not changing jobs. Then this might be a time where we might look at reducing the medication. (GP4)

**Theme 3: medication-tapering toolkit**
This theme explores the informal tapering programmes that GPs implemented to reduce withdrawal symptoms and increase the chances of success under two subthemes: tapering regimen and facilitators to deprescribing.

**Tapering regimen**
GPs viewed deprescribing as their role, recognised the opportunities for reviewing 'patients on multiple occasions over a period' (GP1) and were confident in supporting the majority of patients to discontinue antidepressants.

If it’s a mild to moderate depression, uncomplicated depression or perhaps that first episode of depression then I would be very happy to prescribe and deprescribe. GP1

Participants developed their own individual tapering regimen for discontinuing antidepressants which was typically informed by a combination of professional experience, knowledge shared by colleagues and the National Institute for Health and Care Excellence guidelines.17

The process of tapering medication was dependent on type of antidepressant, dose, length of treatment, patient’s response to a reduction in the dose of medication and involved a ‘gradual, soft deprescribing’ (GP6) regime. Deprescribing was frequently described as ‘low and slow’ (GP1).

Really do it very gradually and keep them under review, make sure that their mood is not suffering or their symptoms are not recurring and that they’re not having any physical symptoms related to them to deal with the withdrawal of antidepressants. (GP1)

Participants emphasised the importance of non-pharmacological approaches to depression which may include lifestyle advice such as ‘avoiding alcohol, avoiding drugs, taking exercise’ (GP9).

In general, GPs did not provide any other medication during the tapering process as they did not see the benefit of adjunct medicines as helping with withdrawal symptoms.

I don’t introduce any other drugs. There are no buffers for it. (GP2)

**Facilitators to deprescribing**
This subtheme explores the variety of factors that GPs perceived currently and in the future would support them in their role of deprescribing.

The majority of participants identified some value in having standardised clinical guidelines to assist them to provide evidence-based care for deprescribing. Additional advice on when and how to deprescribe was particularly welcome to guide decisions around complex cases
and where patients were on long-term treatment, had chronic illness, comorbidities and polypharmacy.

I think guidelines could be of potential use. But I think that use would be very limited unless people in the community such as pharmacists and GPs had major input into the designing of those guidelines. (GP5)

However, some participants did not see the value of having guidelines specifically on deprescribing.

Personally I’m not sure what a guide would do. I mean there is nobody really reads these guides anyway. (GP2)

Other facilitators included education on deprescribing, audit tools, and inbuilt prompts on prescribing software to review a patient’s medication and patient information on deprescribing.

Repeat prescription systems, maybe a notice when you’re a printing them off, not even specific to SSRIs but some sort of a notice like have you taken the opportunity to deprescribe at this time. (GP2)

A participant then suggested that repeat prescriptions should not be available for antidepressants.

Practice policy of not having repeat prescriptions. They are only prescribed every time you see the doctor. You can’t just rock up and ask for a refill or repeat prescription without seeing a healthcare professional either a nurse or a doctor beforehand. I think if those sort of strategies are in place, then the deprescribing doesn’t become an issue as it’s done appropriately. (GP10)

Theme 4: health service factors
This theme covers health service factors that influence the management of depression by GPs and explores access to psychological services, psychiatry and gaps in care.

Availability of psychological services
GPs acknowledged their therapeutic role in listening to and counselling patients, however they recognised their limitations and valued the importance of having referral options for psychological interventions. ‘In a lot of cases we don’t have the skills. And that’s really important as a doctor, right, is to know your limitations’ (GP3).

All participants identified the importance of evidence-based adjunct psychological interventions to support the deprescribing process such as cognitive therapy, counselling and talk therapy.

‘It would be great to use those psychological supports for that (deprescribing SSRIs)’. A lack of access to psychological services was identified as a challenge.

There are no cognitive services freely available. People can pay for them. There are none freely available. I’m not going to get priority if I say I want to stop a SSRI and I want you to provide cognitive support. (GP2)

Access to psychiatry
GPs valued the opportunity to consult with colleagues in the psychiatric services and this was difficult to access for some participants.

There is a whole bunch of people falling in between the cracks between us and secondary care services, because there are no services there. (GP9)

Gaps in care
Another subtheme that influenced patient outcomes is gaps in care. Split care was sometimes a feature of mental health, where a patient sees another GP rather than their own GP.

In the busyness of our everyday work, they might leave in one prescriptions for 6 months and the next prescription for 6 months and no one is keeping an eye on their file. And if you are particularly in a multi-partner practice, you may fall in between lots of different stools. Like a collusion of institutional anonymity. So you kind of get lost in the system. (GP6)

All participants spoke about the importance of having time to therapeutically engage with patients and support them through the discontinuation process. Time was the most common resource constraint identified by GPs.

I think people can benefit a lot if a doctor has time to talk to them about it. But often you are very rushed in general practice. You have 10-minute consultations. Obviously, you will always give someone the time they need. But they are aware that you are under time restrictions. (GP8)

GPs also acknowledged that some patients may be left on antidepressants for too long due to a lack of review or that antidepressants may be prescribed for mild depression where they are not warranted.

There are always lots of factors around decisions. But I think often patients do probably stay on antidepressants a bit longer than they should possibly or stay on medications that perhaps aren’t really helping their symptoms. So I think we do need to really try and be that better by following those patients up and making decisions. (GP1)

Theme 5: concerns around tapering
This theme explores participants’ concerns around tapering antidepressant medication which were primarily focused on the patients’ and GPs’ fears of relapse and withdrawal symptoms. Fears around relapse centred around the impact this decision would have for the patient and their family.

If someone relapses during the tapering period, it can be quite difficult to know. They can see it as quite a negative thing, that they will be on these for life. (GP4)
Participants emphasised that discontinuing antidepressants may not be the right decision for some patients and when patients relapsed, it left GPs questioning the consequences of their decisions for the patient.

If someone rebounds when you drop them from a high dose to a medium dose they are now poorly. You might sit on that for a week or two and see does it ameliorate but you may have made the wrong decision and now caused a medical problem for somebody who was well, through interfering with their medications. (GP2)

**DISCUSSION**

**Summary of findings**

The findings of this study reveal the multitude of factors that shape GPs’ decision-making on antidepressant deprescribing, providing information for clinicians and policymakers that may optimise antidepressant discontinuation in primary care. GPs felt confident in deprescribing antidepressants for patients receiving treatment for mild-to-moderate depression. However, hesitancy around considering deprescribing was expressed when reviewing patients with long-term, recurrent depression, older patients and patients with comorbidities. Access to evidence-based psychological therapies, guidelines, information on rates of relapse, patient information on discontinuing antidepressants and reminder prompts to deprescribe on GP-prescribing software were suggested to optimise appropriate antidepressant discontinuation.

**Comparison with the literature**

We found the decision to discontinue antidepressants usually required detailed conversations between GPs and their patients, either prompted by the GP or patient. Time was sometimes a barrier to these conversations being done proactively. Patient preference for involvement in decision-making varies and studies have found a substantial number of patients prefer less involvement in medical decision-making than perceived. A study by Malpass et al. found that GPs sometimes assigned patients with ownership of making decisions regarding antidepressant treatment specifically. They concluded that patients may have what they termed ‘unvoiced agendas’ within the complexity of a shared decision-making model and caution that in some cases patients ‘do not voice their needs around continuation, deteriorating illness and discontinuation of antidepressants. There is limited evidence of previous research among GPs with one study reporting that some GPs expect patients to contact their practitioner when they wish to make changes to or discontinue their antidepressant. These findings caution against assuming the patient will initiate a discussion about discontinuation and suggest that patients want support and guidance for this process from their GP.

GPs in this study described a shared decision-making process that involved a combination of familiarity and rapport with the patient and knowledge of their social circumstances (family, job, significant relationships) coupled with their own clinical experiences with depression and antidepressants. In our study, GPs acknowledge the complexity of contextual factors that influence the trajectory of depression and discontinuation of antidepressants and this has been described elsewhere. The perceived cause of depression has been reported as both a barrier and facilitator to deprescribing antidepressants. Suggesting antidepressants correct a biochemical deficiency is likely to encourage a belief in the need for life-long use among patients, while seasonal and life circumstances as triggers for depressive episodes can facilitate discontinuation.

Associations between depression and ageing are well documented. In our study, GPs stated that older patients may have to remain on antidepressants long term. More generally, it is a common perception that an accepted part of ageing is to become depressed. More recent studies are emerging that negative ageing perceptions predict the persistence of depression and anxiety. The low expectations for recovery among this cohort may be a modifiable factor in GPs and patients that may lend itself to interventions targeting recovery and antidepressant discontinuation. Information on the rate of relapse after antidepressant discontinuation in this cohort would be useful.

Avoiding destabilisation of a patient during and following discontinuation was a primary concern for GPs in our study. Fear of relapse has been reported in the literature among both GPs and patients. Rates of relapse during discontinuation are currently unavailable for different patient groups, with a recent systematic review reporting rates of between 15% and 80% for various interventions. Information on rates of relapse during discontinuation and among those who stay on antidepressants long term would be useful to inform clinical decisions. Some evidence suggests that cognitive–behavioural therapy or mindfulness-based cognitive therapy can help patients discontinue antidepressants without increasing the risk of relapse/recurrence. Limited access to psychological services in the Irish healthcare system was highlighted by GPs. Fractured care such as split care between psychiatrists and GPs or consultations with multiple GPs were identified as barriers to discontinuing antidepressants. This is a persistent feature of mental healthcare in Ireland, which liaison psychiatry models partly address, although more resources and research are needed to expand collaborations.

Regarding drug choice and dose, prescribing was influenced by GP’s prior clinical experience and SSRIs were viewed as an effective and safe choice echoing the literature. GPs were in agreement that tapering slowly was the preferred way to reduce and eventually stop an antidepressant medication. Prescribing practices were developed through seeking advice from colleagues in general practice and psychiatry experience, and by exploring patient preferences. Prescribers viewed antidepressants...
as one component of a multifaceted approach in which GPs valued their therapeutic function as listener, counsellor and facilitator. These findings are in keeping with the literature.44 The use of subtherapeutic doses may be a helpful dose-reduction strategy45 but is not currently in line with current recommendations and requires further research to determine feasibility and effectiveness among patients.

Implications to research and practice
Negative expectations and experiences of ageing can reinforce perceptions that antidepressants are long-term treatments, and that discontinuation is thus undesirable. This needs to be countered by appropriate patient and practitioner education. GPs require access to nationally integrated guidance and care pathways on antidepressant discontinuation with a particular focus on supporting deprescribing for older patients and patients on long-term antidepressants. Treatment plans and formal practice protocols that include discontinuation and scheduled medication review rather than current informal approaches may support optimal antidepressant discontinuation. Access to evidence-based psychological interventions, patient leaflets and web information sources may prevent patient self-discontinuation and relapse. Audits and inbuilt prompts on GP-prescribing software and on pharmacy systems to review a patient’s medication may support antidepressant discontinuation. Studies that examine rates of relapse during discontinuation among older patients and those who stay on antidepressants long term would be useful to inform clinical decisions.

Strengths and weaknesses
This study, the first of its kind in an Irish context, employed robust and transparent methods to conduct and report study findings. A strength of this study is recruitment of a diverse sample of GPs, with experience ranging from less than 5 years to more than 25 years, practising in a range of urban and rural population practices. A detailed description of context, methods, and findings facilitates judgement of transferability and validity. Multiple coders from different professional backgrounds supported a more complex understanding of the phenomenon and a greater reflexivity in the data analysis. However, findings should be interpreted in the context of study limitations where the sample of GPs was small and affiliated to one country. Furthermore, participants were from a network of GP tutors affiliated with the ULEARN-GP network and who, because of their role in education, may have an enhanced knowledge of deprescribing. While data saturation was reached, theoretical saturation and theory development were not within the scope of the study.

CONCLUSION
This paper explores factors involved in GP decisions behind deprescribing antidepressants. The findings suggest that multiple strategies including scheduled medication review, detailed guidance on tapering, audits, inbuilt prompts on GP-prescribing software and access to evidence-based psychological interventions and patient information sources may support optimal antidepressant discontinuation. Further research is required to document the risk of relapse when antidepressants are discontinued, particularly for older patients with multimorbidity and patients on long-term antidepressant therapy.

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Contributors
DK was responsible for overseeing the project. DK and LG were responsible for study design. PG and JG carried out interviews under the supervision of DK. JG, MN, PH, LG, JMcF and DK were involved in data analysis and write up of the manuscript. All authors approved the final manuscript.

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An anonymised dataset can be made available to researchers upon reasonable request.

Supplemental material
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ORCID iD
Derval Kelly http://orcid.org/0000-0001-9836-5400

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Supplementary information
An exploration of GP perspectives on deprescribing antidepressants: a qualitative study
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Table S1 Semi-structured interview guide
(blue text – instructions)

<table>
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<th>Introduction</th>
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<tr>
<td>Greet the doctor and thank him/her for giving appointment for interview.</td>
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<tr>
<td>Introduce yourself (interviewer) and who you are.</td>
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<tr>
<td>Provide the interviewee with the leaflet on the study design and briefly explain about the study.</td>
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<td>Explain about confidentiality and use of the study outcomes.</td>
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<td>Introduce the consent form. Ask for consent to audio recording and note taking.</td>
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<th>Personal Characteristics</th>
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<td>Current Position</td>
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<th>Interview</th>
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<tr>
<td>1. Do you think diagnosis and treatment of depression in Ireland have changed over time?</td>
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<tr>
<td>Prompts: Overdiagnosis or underdiagnosis?; Treatment strategies</td>
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<td>2. How do you feel about discontinuing antidepressants for patients in primary care setting?</td>
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<tr>
<td>Prompts: Challenges of deprescribing in this setting: managing discontinuation symptoms, relapse; Ease or difficulty of reviewing medicine profiles; Clarity of clinical notes and medicine charts; Communication</td>
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<td>3. When prescribing medicines for these patients, what factors do you think are important to consider?</td>
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<td>Prompts: Patient factors (e.g.: quality of life, benefit gained versus risk caused)</td>
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<tr>
<td>Physician factors (e.g.: prescribing habits, personal preferences, past experience)</td>
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<tr>
<td>Other factors (e.g.: secondary care prescribers, patient/relatives’ wishes)</td>
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<tr>
<td>4. How do you approach reducing or stopping antidepressants in patients in primary care?</td>
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<tr>
<td>Prompts: Do they endorse this idea? Do they have any concerns? (patients’ or relatives’ views)</td>
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<tr>
<td>Do they find stopping medicines challenging? Why? How frequently do they tend to stop medicine(s)?</td>
</tr>
<tr>
<td>5. What factors do they take into account when making those decisions?</td>
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<tr>
<td>Prompts: Do deprescribing decisions occur at the patient’s regular clinical review multi-disciplinary meetings or at another time? Strategies: Dose reduction — from treatment to maintenance dose. Therapeutic substitution — moving patients off antidepressants to another type of treatment; Non pharmacological interventions; Self-regulation — taking antidepressants in an individually tailored regime to minimise discontinuation symptoms.</td>
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6. If there were a guideline designed to assist prescribers in making decisions around deprescribing antidepressants in patients, would you consider this to be useful for your clinical practice?  
*Prompts: What type of guidance would they find useful? Would they find deprescribing guidelines helpful or burdensome? Would guidelines make it easier or more efficient to review patients' medicine lists?*

7. Is there anything you think you would like to help you with this process of reducing/stoping antidepressants (i.e. deprescribing)? Is there anything that could make this process easier?

**Closing**

Switch off the recorder. Thank interviewee for time and inputs. Ask the interviewee if he/she wants to share anything. Assure the sharing of study results with interviewee. Ask permission to get back to interviewee for any clarifications/further information.
Table S2 Thematic mapping of iterative qualitative analysis process

Themes draft 1

Decision to Taper
- Length of treatment
- Buy-in
- Patient expectations
- Treat depression as a chronic illness
- Not a life long treatment
- Lifelong treatment

Shared decision making
- Patients perspective
- Patients involvement
- Patient insight
- Patient led vs GP led

Managing depression
- Complex, varied definitions
- Medical card vs private patients
- GP as therapist
- Involvement of multidisciplinary team in decisions

Multidisciplinary team
- GPs as specialists in primary care
- Specialist involvement in complex cases

Medication tapering
- Low and slow
- Transition to talking therapy
- Continue with therapy during transition
- Availability of talking therapy
- Patient resistance to tapering
- Open communication

Psychological therapies
- Relapse
- Withdrawal symptoms
- Follow up
- Patient info on deprescribing
- Prompts to deprescribe

Facilitators for deprescribing
- Audit tools
- Guidance
- Follow up prompts
- Patient info on deprescribing
- Prompts to deprescribe

Barriers to deprescribing
- Time
- Dependency
- Abuse of medications
Themes draft 4

Deciding to taper
- Shared decision making: patient expectations, GP led discontinuation
- Patient self-discontinuation or patient led deprescribing

Medical and social factors that influence decision to taper
- Medical factors: facilitators and barriers
- Social factors

Tapering Process
- Tapering regimen
- Concerns around tapering
- Facilitators to deprescribing

Falling between the cracks
- Time
- Availability of psychological services
- Gaps in care
- Non-pharmacological solutions
Themes draft 5

Clinical dilemmas
  - Shared decision making
  - Patient led deprescribing

Personalised therapy
  - Medical factors: facilitators and barriers
  - Social factors
  - Gaps in care

Medication tapering toolkit
  - Tapering regimen
  - Facilitators to deprescribing

Talk therapy
  - Availability of psychological services
  - Access to psychiatry

Concerns around tapering
  - Fear of relapse
  - Withdrawal symptoms
### Table S3 assessment of the manuscript against the consolidated criteria for reporting qualitative research (COREQ) checklist(1).

<table>
<thead>
<tr>
<th>COREQ checklist Domain 1: Research team and reflexivity</th>
<th>Location in manuscript (Section, page no.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Personal Characteristics</strong></td>
<td></td>
</tr>
<tr>
<td>1. Interviewer/facilitator</td>
<td>JG, PG</td>
</tr>
<tr>
<td>Which author/s conducted the interview or focus group?</td>
<td>Methods - 4</td>
</tr>
<tr>
<td>2. Credentials</td>
<td>PG: BSc MSc</td>
</tr>
<tr>
<td>What were the researcher’s credentials? E.g. PhD, MD</td>
<td>JG: BSc MSc</td>
</tr>
<tr>
<td>3. Occupation</td>
<td>Graduate entry medical students</td>
</tr>
<tr>
<td>What was their occupation at the time of the study?</td>
<td>Methods - 4</td>
</tr>
<tr>
<td>4. Gender</td>
<td>Male</td>
</tr>
<tr>
<td>Was the researcher male or female?</td>
<td></td>
</tr>
<tr>
<td>5. Experience and training</td>
<td>PG: MSc Public Health.</td>
</tr>
<tr>
<td>What experience or training the researcher have?</td>
<td>Experienced qualitative researcher.</td>
</tr>
<tr>
<td></td>
<td>JG: epidemiology and literature review training</td>
</tr>
<tr>
<td><strong>Relationship with participants</strong></td>
<td></td>
</tr>
<tr>
<td>6. Relationship established</td>
<td>No</td>
</tr>
<tr>
<td>Was a relationship established prior to study commencement?</td>
<td></td>
</tr>
<tr>
<td>7. Participant knowledge of the interviewer</td>
<td>Participants were briefed on the purpose of the study and understood that it was a research project led by PI DK. Ethical approval had been granted, participants reviewed the participant information documentation prior to giving their written informed consent to be involved.</td>
</tr>
<tr>
<td>What did the participants know about the researcher? e.g. personal goals, reasons for doing the research</td>
<td></td>
</tr>
<tr>
<td>8. Interviewer characteristics</td>
<td>No interviewer-related biases identified.</td>
</tr>
<tr>
<td>What characteristics were reported about the interviewer/facilitator? e.g. Bias, assumptions, reasons and interests in the research topic</td>
<td></td>
</tr>
<tr>
<td><strong>Domain 2: study design</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Theoretical framework</strong></td>
<td></td>
</tr>
<tr>
<td>9. Methodological orientation and Theory</td>
<td>Open coding with thematic content analysis.</td>
</tr>
<tr>
<td>What methodological orientation was stated to underpin the study? e.g. grounded theory, discourse analysis, ethnography, phenomenology, content analysis</td>
<td>Methods – 4</td>
</tr>
<tr>
<td><strong>Participant selection</strong></td>
<td></td>
</tr>
<tr>
<td>10. Sampling How were participants selected? e.g. purposive, convenience, consecutive, snowball</td>
<td>Recruited via email</td>
</tr>
<tr>
<td>---</td>
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</tr>
<tr>
<td>11. Method of approach How were participants approached? e.g. face-to-face, telephone, mail, email</td>
<td>Email</td>
</tr>
<tr>
<td>12. Sample size How many participants were in the study?</td>
<td>Ten</td>
</tr>
<tr>
<td>13. Non-participation How many people refused to participate or dropped out? Reasons?</td>
<td>Of the first ten respondents that were invited for a semi-structured interview, all gave informed consent and completed the interview. There were no participants who subsequently refused to participate, withdrew consent or dropped out.</td>
</tr>
</tbody>
</table>

**Setting**

| 14. Setting of data collection Where was the data collected? e.g. home, clinic, workplace | Data was collected via Skype or in non-clinical professional location e.g. meeting room in a conference centre or university. | - |
| 15. Presence of non-participants Was anyone else present besides the participants and researchers? | No | - |
| 16. Description of sample What are the important characteristics of the sample? e.g. demographic data, date | 7 males, 3 females. Level of experience ranged from <5 years to > 25 years. Data was collected between July 2019 and March 2020 | Table 1 |

**Data collection**

| 17. Interview guide Were questions, prompts, guides provided by the authors? Was it pilot tested? | Interviews were semi-structured using a guide (supplemental table 1); supplemental information table 2 | Methods – 4 and supplemental information table 2 |
| 18. Repeat interviews Were repeat interviews carried out? If yes, how many? | No | - |
| 19. Audio/visual recording Did the research use audio or visual recording to collect the data? | The semi-structured interviews were audio recorded using a laptop. | - |
| 20. Field notes | No additional field notes were made. |
| 21. Duration | The semi-structured interview durations ranged from 18:25 to 53:29 (minutes : seconds) |
| 22. Data saturation | No |
| 23. Transcripts returned | No |

**Domain 3: analysis and findings**

**Data analysis**

| 24. Number of data coders | Three |
| 25. Description of the coding tree | Open coding. Coding described in methods section. |
| 26. Derivation of themes | Themes were derived from the data |
| 27. Software | Microsoft Word and Excel |
| 28. Participant checking | No |

**Reporting**

| 29. Quotations presented | Yes, specific comments were supported with direct quotes attributed to anonymised participant |
| 30. Data and findings consistent | Yes |
| 31. Clarity of major themes | Yes |
| 32. Clarity of minor themes | Subthemes were identified under each theme. |

**References**