Table S6
 Illustrative quotations for recommendation themes and subthemes

otations from participants in primary study	Interpretations of findings offered by authors
away my first thought was what are the low flying at we can get rid of ⁶⁷	Strategies included targeting medicines that are easier to deprescribe in the first instance, adopting a gradual approach to changing medicine regimens and deferring to patients in making a deprescribing decision ⁶⁷
people first come, I don't usually go OK well we need this, this, this, this and this. I mean, you've got to me sort of confidence that you know what you are as that you wouldn't also stop some medicine that	A common response was to take a conservative approach, deferring any attempt to intervene and cease PIMs until the circumstances were most favourable for obtaining patient engagement ⁷² The more unstable or ill the patient or the more complicated the
s their bones, alendronate, cholecalciferol, Caltrate.) the Caltrate is contributing to the constipation, find ing else to blame ⁶⁷	issues, the better to find an alternative path to avoid creating a more serious risk, especially among patients who express no desire or expectation for change in their medicines ⁶⁷
as you get older, you realize that is not really true e you have done it so many times and they have not croke the next week 67	The exchange between these participants demonstrates how repeated positive experiences can shift the risk frame. It also again reinforces the desire for better evidence that deprescribing is safe and effective ⁶⁷
if there was some sort of training about how to those [PIP] that would be good [] and some sort of so then it makes us aware that 'right, we are going out for' you know ⁶⁹	The participating GPs experienced the CME group meetings as an important arena for learning. They reported picking up good advice from others and learning practical alternatives to drugs that should not be used ⁷³
edication reviews] could be incorporated into your continuing professional development], I know exists who would be much more inclined to do it we are all trying to clock up our CPD hours ⁶⁹	Pharmacists believed their pharmacology/therapeutics knowledge to be sufficient to identify PIP but stressed the need for continuing professional education to bring their knowledge in line with new medications and most up-to-date guidelines ⁶⁹
ole point is to reflect more, that you think twice, and spect to this it has been a good project. It should ten done within other areas too ⁷⁴	One important outcome for the GPs was an experience of being more reflective in decision-making about prescriptions ⁷⁴
I start anybody [on NSAIDs] I always check their renal n make sure their eGFR is good ⁷²	Risk stratification of potential harm could be conducted for some PIMs prior to commencement of therapy and, once a PIM was being used, monitoring of side-effects could be instituted ⁷²
nose IPU [Irish Pharmacy Union] and HSE [Health is Executive] campaigns about generic medications imple, have been very successful. I think a similar ign along the lines of 'do you need everything you are. Or encouraging patients to go to their doctor 69	Suggested initiatives were campaigns from health authorities to patients and/or healthcare providers (Table 1). The purpose of these campaigns should be to inform patients or GP about particularly problematic drug classes and raise awareness69
if there's a caregiver or someone in the family who with them [] sometimes you can't complete tion reconciliation with the veteran themselves in uation, so you have to rely on caregivers ⁶⁶	Presence of a caregiver or someone who had knowledge of the patient's medication administration in this situation was felt to be very helpful in achieving accurate medication reconciliation ⁶⁶
ne decision and we don't know if there will be a side but they have to trust me that the medication is right m. They are not able to understand all this, I don't now if they understand me ⁶⁴ n education to the patient ⁷³	GPs communication skills (e.g. the ability to use patient-centred language or to structure the conversation) and attitude towards shared decision-making were determinants on a healthcare-professional level ⁶⁴ Patient counseling/education in the present study, the FPs also highlighted the proof for improving patients' appropriate and such
at's the starting point — to establish what the ship is. I guess that's my point. So, until you know he relationship is — whether it is an ongoing ship or whether it's an episodic one; then that lead to where you take the consultation and if it's	highlighted the need for improving patients' awareness on such issues ⁷³ An underpinning element to working through uncertainties with regard to deprescribing was the consideration of relationships. For GP participants, a continuous therapeutic relationship with a patient was critical to better assessing harms and benefits and committing to the potentially protracted process of
at's	they understand me ⁶⁴ ducation to the patient ⁷³ to the starting point — to establish what the ip is. I guess that's my point. So, until you know relationship is — whether it is an ongoing p or whether it's an episodic one; then that

	primary GP is ⁶⁷	
	The electronic communication is wonderful. It avoids the whole issue of phone tag. It avoids the whole issue of someone having to give their message to another person, which often distorts the meaning of the request. The asynchronous communication makes all communication easier ⁶⁶	The direct patient contact via SM reduced time spent in "phone tag" (ie, leaving messages for the patient to call back) and providers reported feeling like communication was easier and often more descriptive ⁶⁶
	A recall that sends out something to the patient every year and says, "Next time you're at the doctor make sure to look over the pills." ⁷⁰	activating patients to become more involved in medicines management and alert to the possibility that less might be better ⁷⁰
Environment-related factors	5	
financial remuneration (69, 70)	I suppose it's [PIP] a bit under the radar in a lot of my daily work because you are not incentivised to look for it [] Well it's really a case of your incentives. You know, you are not incentivised to do it. It does not really benefit you directly at all ⁶⁹	State reimbursement, or professional acknowledgement, for doing medication reviews was both considered to be motivating factors to do medication reviews ⁶⁹
cross-disciplinary	I would love [for pharmacists] to review the prescriptions with the patient after the visit. If there wasa real problem patient If I could say to them, look I'm really having a problem with this patient. He brought all his medications in but he's also in congestive heart failure or he's worse or whatever problem I might need to deal with that day, could you go over his meds with him ⁶⁶	A majority of providers envisioned a scenario where a pharmacist or clinical staff member performed detailed medication reconciliation prior to the provider's visit. This could minimize the time necessary for medication reconciliation by the provider, freeing up time to discuss clinical issues ⁶⁶
collaboration (64, 66-70, 73)	That strategy of phoning specialists there and then, in front of them—we collaborate on this and this is what we are doing ⁶⁷ The channels need to be a bit more open. Sometimes they	Good working relationships, that is, between GPs and CPs or in the following case between a GP and specialist, facilitated timely, collaborative deprescribing decisions ⁶⁷ Suggested improvements included more direct lines of
	are very closed and if they [the doctors] were a bit more open and a bit more receptive to what our [pharmacists] role as like a professional could be ⁶⁹	communication and willingness to collaborate from all parties. Geographic proximity and face-to-face interaction were believed to be key facilitators of a good collaborative relationship ⁶⁹
workflow optimisation (64, 66, 69, 70)	I think it can also get to the point of it much more succinctly. Not to be antisocial, but you don't have to deal with the niceties of 'How are you feeling today?' They write you with whatever is the concern and you respond to it ⁶⁶	The team-based model of SM triage means that providers never saw many of the messages that patients addressed to them, as team members were able to answer and fulfill requests by SM with minimal or no provider input, something providers appreciated ⁶⁶
	You need some funded time with the patient so that you can bring the patient in and say "This is a special appointment that's not to talk about your current medical problems, it's specifically about managing your medicines better."	Protected time to review medications facilitated by extra pharmacist staff was a suggested solution ⁶⁹
Technology-related factors		
electronic health record optimisation	An alert would give you a little bit of courage to do it, or give you more reassurance, or give you a way to bring it up with the patient like, "Look, you see, the computer has noticed you're on too many medications, maybe we can reduce it" 70	Providers imagined a variety of approaches to improve medication reconciliation, many involving streamlining the EHR to identify errors and interactions ⁶⁶
(66, 70, 73)	I feel that must have a chat in the system between the physicians ⁷³	A need for technology and/or a system: better communication between physicians and health care providers ⁷³
advanced technical aids (65-67, 70, 73)	It would be good to have some figures so—there is going to be a big push to be not prescribing statins forever—so some figures to back it up ⁶⁷	Better evidence that deprescribing is safe and effective and decision support provided in a format that is easily accessible at the point of care (e.g., integrated into the practice software) for use in discussion with patients was offered by participants as a key facilitative strategy ⁶⁷
	I've recently come across an app, which I have on my iPad [MedStopper], and you can put in the medication list there and it will prioritize them for you. So, that's a really neat little tool ⁷⁰	Improved access to expert advice and user-friendly decision support ⁷⁰
	I think we need multi-morbidity guidelines, the commonest multi-morbidities like chronic pain from arthritis and heart	Updating guidelines to include advice on when to consider stopping medicines, developing new guidelines for the

failure and diabetes together ⁷⁰	management of common comorbidities, tools and resources to
	assist in the communication of risk to patients ⁷⁰
I simply find it better to have concrete recommendations	Rather than having a black- list "banning" certain medications,
made for the elderly. [] I would prefer something with a	they would prefer a whitelist indicating which medications can
positive formulation ⁶⁵	be safely used for elderly patients ⁶⁵