Standing order use in general practice: the views of medicine, nursing and pharmacy stakeholder organisations

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ABSTRACT

INTRODUCTION: Standing orders are used by many general practices in New Zealand. They allow a practice nurse to assess patients and administer and/or supply medicines without needing intervention from a general practitioner.

AIM: To explore organisational strategic stakeholders’ views of standing order use in general practice nationally.

METHODS: Eight semi-structured, qualitative, face-to-face interviews were conducted with participants representing key primary care stakeholder organisations from nursing, medicine and pharmacy. Data were analysed using a qualitative inductive thematic approach.

RESULTS: Three key themes emerged: a lack of understanding around standing order use in general practice, legal and professional concerns, and the impact on workforce and clinical practice. Standing orders were perceived to extend nursing practice and seen as a useful tool in enabling patients to access medicines in a safe and timely manner.

DISCUSSION: The variability in understanding of the definition and use of standing orders appears to relate to a lack of leadership in this area. Leadership should facilitate the required development of standardised resources and quality assurance measures to aid implementation. If these aspects are addressed, then standing orders will continue to be a useful tool in general practice and enable patients to have access to health care and, if necessary, to medicines without seeing a general practitioner.

KEYWORDS: General practice; general practitioner; nurse; pharmacist; primary health care; standing orders

Introduction

Standing orders (SOs) for the administration of medicines are used in New Zealand (NZ) as a means of addressing general practice workforce shortages, which have an effect on patients’ abilities to access health care and medicines.1–3 This process is different to prescribing (Box 1). The former enables administration and/or supply of a medicine, while the latter results in a prescription.

The original 2002 legislation4 was developed to facilitate access to medicines during an emergency in the hospital environment when a prescriber was not immediately available.5 Over time, SOs became regularly used in primary health-care settings and the legislation was amended accordingly.9

In the United Kingdom (UK), a similar function is fulfilled by patient group directions (PGDs).7
WHAT GAP THIS FILLS

What is already known: There is little research within New Zealand or internationally on the use of standing orders in general practice. To date, it would appear that this is the first study to look at standing orders in general practice from an organisational strategic stakeholder perspective.

What this study adds: The use of standing orders in general practice is widespread, but stakeholder organisations believe there is little understanding by many general practitioners and practice nurses as to the legal and professional requirements around their use. This study draws attention to these discrepancies and suggests solutions to enable standing orders to be used in compliance with the legislation to protect those working with standing orders and to ensure patient safety.

Although there are small differences between SOs and PGDs, they are generally agreed to be very similar, with PGDs defined as ‘written instructions for the supply and administration of named medicines in an identified clinical situation … [and] within the strict terms of a predetermined protocol’. In some countries, the legislation refers solely to medicines, while in others, it refers to ordering tests. National legislation covers the functions of the issuer, review of competency, mechanisms to review and audit, and obligations of the person supplying/administering the SO. The key legislation and documents are shown in Table 1.

Standing orders enable practice nurses (PNs) and other disciplines to make an assessment that the SO applies to a patient and to administer medicines; if necessary, without general practitioner (GP) involvement. Some query whether nurses are assessing or diagnosing when using SOs. Wilkinson’s survey reported that primary health care nurses were ‘making diagnostic decisions on a regular, if not daily basis in relation to implementing SOs. Even so, some expressed uncertainty about whether diagnosis was within the RN (registered nurse) scope of practice’.

While used to administer and supply a range of medicines for common conditions (Table 2), the development process, by necessity, is complex and time-consuming to ensure patients are treated optimally and safely (Fig. 1).

Limited research has investigated SOs or PGDs in general practice settings. Interprofessional collaboration between GPs and PNs has been identified as an important factor in the successful use of SOs, with patients benefiting from the sharing of ideas and knowledge between healthcare professionals. Although SOs are generally perceived as safe and effective, and enable nurses to develop clinical knowledge and skills in assessment, nurses sometimes misunderstand the term. Studies have found that nurses as well as nurses and GPs have identified a need for greater education and/or training around their use. Although it is a legal requirement that the SO issuer (usually a GP) annually checks the competence of the person carrying out the process, this does not always appear to happen.

Historically and nationally, SOs have largely been developed in general practice settings for use by PNs. However, more recently, pharmacists have been responsible for monitoring and adjusting doses of warfarin in specific patients operating under SOs as part of the Community Pharmacy Anti-coagulation Management Service.

Worldwide, research has focused solely on the views of individual practitioners, with no studies identified from the perspective of the key organisational stakeholders (e.g., professional organisations, colleges or regulators).

Over the last decade, there have been legislative changes nationally that have resulted in prescribing rights for several groups of nurses and allied health professionals. Some registered nurses practising in diabetes health, pharmacists and dietitians now hold designated prescriber status and are therefore legally allowed to prescribe within their area of practice from a specified list of medicines. In 2013, the designated prescriber

**Box 1. Definition of a standing order**

’a written instruction issued: by a medical practitioner… it authorises a specified person or class of people (eg registered nurses) who do not have prescribing rights to administer and/or supply specified medicines and some controlled drugs. The intention is for standing orders to be used to improve patients’ timely access to medicines.’
status of nurse practitioners and optometrists was changed to put them on an equal footing with other authorised prescribers (doctors, dentists and midwives), allowing them to independently prescribe within their scope of practice. In 2013, the Nursing Council of New Zealand (NCNZ) also undertook a public consultation to gauge response to a proposal for two further levels of prescriber within the designated nurse prescriber class (‘specialist’ and ‘community’), regulatory changes are underway.

In addition to these changes, Health Workforce NZ has been involved in initiatives to increase the groups of those who prescribe; for example, diabetes nurse prescribers. Given that such changes and initiatives potentially have an impact on the use of SOs, it was timely to gain an

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Table 1. Key legislation and documents governing standing order use in New Zealand

<table>
<thead>
<tr>
<th>Title (reference)</th>
<th>Year</th>
<th>Key content areas covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medicines (Standing Order) Regulations⁴</td>
<td>2002</td>
<td>The original legislation (also noting the 2011 amendments):</td>
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<tr>
<td></td>
<td></td>
<td>• Interpretation of the regulations.</td>
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<td></td>
<td></td>
<td>• People permitted to execute standing orders.</td>
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<td></td>
<td></td>
<td>• The required content of a standing order.</td>
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<td></td>
<td></td>
<td>• Annual review of competency.</td>
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<td></td>
<td></td>
<td>• Annual review of standing orders.</td>
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<td></td>
<td></td>
<td>• Functions of issuer including countersigning requirements.</td>
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<tr>
<td></td>
<td></td>
<td>• Obligations of people executing standing orders.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Audit.*</td>
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<td></td>
<td></td>
<td>* The Director-General may audit any standing order at any time.</td>
</tr>
<tr>
<td>Review of the Policy Relating to the Operation of the Medicines (Standing Orders) Regulations 2002⁵</td>
<td>2006</td>
<td>Ministry of Health discussion document noting ‘that the original policy underpinning the Medicines (Standing Order) Regulations 2002 requires review’ (pg 4). Comment was invited from interested parties on the following:</td>
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<td>Problem: ‘the strict requirement placed on practitioners working with standing orders to have every treatment countersigned is proving unworkable’ (pg 5).</td>
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<td>Possible solution: ‘that the requirement for countersigning every supply and/or administration be relaxed in instances where the requirement is negatively impacting on practitioners’ ability to deliver services’ (pg 6).</td>
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<td></td>
<td>The Ministry also proposed that alternative methods be established by each health-care provider to monitor a random sample of standing orders.</td>
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<tr>
<td>Medicines (Standing Orders) Regulations⁶</td>
<td>2011</td>
<td>Contains amendments to the 2002 legislation:</td>
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<tr>
<td></td>
<td></td>
<td>• Interpretation - definition for countersigning.</td>
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<tr>
<td></td>
<td></td>
<td>• The required content of a standing order – requirements for countersigning.</td>
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<td></td>
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<td>• Audit of charted treatments in certain cases.</td>
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<td></td>
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<td>• Functions of issuer revised including the new countersigning requirements, processes in place for monitoring and review of the operation of a standing order, and availability.*</td>
</tr>
<tr>
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<td>* They should be made available to the Director-General on request; the Director-General may audit any standing order at any time.</td>
</tr>
<tr>
<td>Standing Order Guidelines¹</td>
<td>2012</td>
<td>Guidelines issued by the Ministry of health covering:</td>
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<tr>
<td></td>
<td></td>
<td>• Purpose and exclusions.</td>
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<td></td>
<td></td>
<td>• Issuer.</td>
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<tr>
<td></td>
<td></td>
<td>• People working under standing orders.</td>
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<td></td>
<td></td>
<td>• Medicines that can be administered/supplied.</td>
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<td></td>
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<td>• Required content.</td>
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<td></td>
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<td>• Period for which a standing order applies.</td>
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<td>• Record keeping.</td>
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<tr>
<td></td>
<td></td>
<td>• Competency and training.</td>
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<td></td>
<td></td>
<td>• Countersigning, audit and review.</td>
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<td></td>
<td></td>
<td>• Availability and enforcement.</td>
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<tr>
<td></td>
<td></td>
<td>• Checklist for development and template.</td>
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</tbody>
</table>

Table 2. Common health conditions for which standing orders are used

<table>
<thead>
<tr>
<th>Condition</th>
<th>Common health conditions for which standing orders are used</th>
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</thead>
<tbody>
<tr>
<td>Allergies</td>
<td>Respiratory conditions (e.g., Asthma)</td>
</tr>
<tr>
<td>Constipation</td>
<td>Sexually transmitted infections</td>
</tr>
<tr>
<td>Fevers</td>
<td>Skin infections</td>
</tr>
<tr>
<td>Gout</td>
<td>Sore throats</td>
</tr>
<tr>
<td>Infestations</td>
<td>Unplanned sexual intercourse</td>
</tr>
<tr>
<td>Pain</td>
<td>Urinary tract infections</td>
</tr>
</tbody>
</table>
understanding of the place of SOs from strategic stakeholder perspectives. This study aims to explore NZ organisational stakeholders’ views of SO use in general practice.

**Methods**

Face-to-face, semi-structured interviews were undertaken with representatives from relevant professional stakeholder organisations who have a national regulatory and/or advocacy role for their profession. As doctors are the issuer of SOs, nurses and pharmacists the most frequent users, and medicines an important feature, key strategic organisations representing medicine, nursing and pharmacy were purposively sampled. Nine stakeholder organisations were identified as potential participants (Table 3).

An invitation to participate, with a copy of the study information sheet, was sent by email to each organisation’s Chief Executive Officer. Those willing to participate were asked to nominate the most appropriate staff member for interview. Eight of the nine organisations approached agreed to participate. All interviews were undertaken by RT using a semi-structured interview schedule covering seven broad topic areas (Table 4).

Interviews of between 20 and 40 min were conducted between December 2013 and December 2014, audio-recorded and transcribed verbatim. All interviewees were provided with an opportunity to review the content of their transcribed interview.

Qualitative analysis was undertaken using an inductive thematic approach. This initially involved RT reading and re-reading the transcripts, coding categories and identifying emerging themes,

Followed by EM and CM independently doing the same. Transcripts were coded according to professional discipline (nursing, medical, pharmacy) rather than individual organisation to provide discipline-specific insights in relation to SOs. All three authors met to discuss and compare findings and agree on the final themes, with differences resolved by consensus. Some individuals representing an organisation were either former or current clinicians and

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**Figure 1. Flowchart showing the process for developing a standing order**

1) Identify the condition to be treated
2) Explain why the standing order is necessary
3) Specify the scope of the standing order
4) Identify the best person to be the issuer of the standing order
5) Determine the class of person permitted to administer and/or supply the medicine (e.g., PNs)
6) Specify the class of people to whom medicines can be administered (e.g., adults or children 2–12 yrs)
7) Specify the circumstances in which the standing order applies
8) Include the specified treatments that apply for the stated condition
9) Outline which medicines are to be administered and/or supplied
10) Specify if the standing order needs countersigning or requires monthly audits of a sample of records
11) Define the terms of use
12) Ensure the standing order is in written format
13) Ensure the standing order is signed and dated by the issuer
14) Ensure a date of review has been established for the standing order
we noted that they answered questions from a
personal perspective rather than an organisa-
tional viewpoint. Furthermore, we accounted
for the fact that participants’ views could not be
assumed to reflect that of the organisation’s indi-
vidual member practitioners during analysis.

Ethical approval was obtained from the Univer-
sity of Otago’s Human Ethics Committee (Refer-
ce: D13/357).

Results

Three key themes emerged from the data:

- A lack of understanding around SO use
  in general practice.
- Legal and professional concerns.
- The impact of SOs on workforce and
  clinical practice.

Each of these themes (with sub-themes where applicable) is described below with illustrative quotes.

Overall, there was general agreement from all participants that SOs are a useful and successful way of improving patient access to health care and to medicines if needed.

Lack of understanding around standing order use in general practice

Definition of standing orders: Despite being deemed the most appropriate person to speak on this subject, the majority of participants gave incorrect or confused versions of the official definition of SOs.

‘… it’s like an algorithm of medications, you can use for certain conditions that are defined…’
(Nursing Organisation 2)

Lack of resources or information: All organisations were supportive of the use of SOs; however, they believed SOs are not a priority in strategic planning or development. A lack of ownership by any one organisation resulted in a lack of strategies for developing, implementing, auditing and reviewing SOs in general practice. Similarly, there is no single place for GPs or PNs to obtain relevant information or education on how to implement SOs.

‘There is a lack of organisations to provide advice to people who are setting standing orders up about the clinical guidelines …’. (Nursing Organisation 4)

Variability of use: All participants believed there is significant variability in how SOs are used.

‘Sometimes [SOs] are used in compliance with the legislation and sometimes they’re not, so there’s variability’. (General Practice Organisation 2)

Stakeholders described examples of both correct and incorrect use of SOs. Notably, some incor-
directly described instances of nurses generating a prescription as a SO.

**Legal and professional concerns**

Most identified legal and professional risks as a major concern. Participants noted general risks as well as risks related to nurses’ competence to assess and diagnose, and also made a distinction between these and formal quality assurance measures.

**General risk:** Most participants acknowledged the variability as a risk. They felt this has the potential to put both health professionals and patients at risk.

‘I have questions around safety for the nurse, safety for the patient and safety for the issuer’. (Nursing Organisation 1)

**Practice nurses’ lack of assessment and diagnosis skills:** Concern was expressed about the level of PNs’ assessment and diagnosis skills. Some participants felt many PNs have not undertaken appropriate training, nor had the relevant experience to be able to diagnose and appropriately use a SO.

‘If you can’t make a diagnosis, you can’t use a standing order’. (General Practice Organisation 1)

However, one participant believed that PNs were competent to carry out SOs by virtue of their practice experience.

The perception existed that GPs in practice were unaware they are required to assess or be knowledgeable about nurses’ competence to carry out SOs. Furthermore, GPs may not know how to assess a nurse’s competence.

‘... even in some forward thinking practices ... a GP’s trust in a nurse’s competence is not founded on very scientific means’. (Nursing Organisation 1)

**Lack of quality assurance measures:** Although there is a high level of endorsement of SO use, some participants felt that few quality assurance measures are in place and that there is a lack of national standardisation for use:

‘I’ve done a little bit of work [to] actually develop a set of national standing orders ... they are very supportive of the idea and keen to explore it ... and would like to see the development of a national set’. (General Practice Organisation 3)

‘...some better information from the Ministry around examples ... or an audit template and where do they keep and store that information, and sign off the audit is done. Because if someone wants to audit where do they go. Most general practices don’t have a quality safety person’. (Nursing Organisation 4)

Despite high-level SO guidelines being available, these do not clearly set out the requirements for practical development and implementation.

Some participants considered insufficient funding and lack of ownership at an organisational level as reasons for this lack of quality assurance measures:

‘It’s not happening because no-one’s got the funds to do it, no-one’s got the ownership to do it...’. (Nursing Organisation 4)

**Impact on workforce and clinical practice**

The use of SOs was believed to have considerable impact on workforce capacity and utilisation. They were considered to support role extension, enhance interdisciplinary collaboration and lead to better use of health professional skill sets.

**Workforce issues:** Many participants noted the impact of an ageing professional population, a lack of younger replacement GPs and PNs, increasing patient co-morbidities and the relocation of some secondary care medical services into primary care as a driver for the use of SOs.

‘It [SO use] has potential workforce benefits ... because it allows a practice to organise its workforce differently and nurses to work more independently’. (General Practice Organisation 1)

All participants recognised that SOs have extended PNs’ roles. They described PNs being able
to work at a more advanced level of practice and offer a wider range of patient services.

'It's [use of SOs] a better utilisation of their [PNs] … skills … (and) it has improved nurses' autonomy'. (Nursing Organisation 4)

Pharmacy participants could also see an increased role for pharmacists and allied health professionals in the future use of SOs.

'… we know New Zealand is going to suffer an acute shortage of GPs and who better to step into those gaps than nurses and pharmacists, and be complementary to the GP'. (Pharmacy Organisation 1)

Enhanced relationships: Most stakeholder organisations felt SOs have encouraged more collegial working relationships between GPs and PNs.

'[SOs] improve teamwork and improve access for patients to care … they do free up time within the team …'. (General Practice Organisation 3)

Discussion

This study explored organisational stakeholders’ views of SO use in general practice in NZ. Both benefits and challenges to the use of SOs were identified. While they were perceived to have a valuable role to play in the safe and timely access to medicines for patients, two key challenges emerged. First, stakeholders frequently misunderstand the use of SOs; second, no single organisation is taking responsibility for overseeing their use in this setting.

There is a general misunderstanding at a strategic organisational level about the definition and implementation of SOs. Although it is unclear why this confusion has occurred, there is a need for one organisation to promote and disseminate the correct definition.

Lack of clear understanding at an organisational level may have led to the variability of SO use in general practice and lack of understanding by both GPs and PNs of their legal responsibilities and professional accountabilities. This variability and lack of understanding was noted in 2013 by Scott-Jones, the then Chairman of the NZ Rural General Practice Network, stating that several general practices had stretched the bounds of SO legislation by developing ‘local solutions’ for use. He further stated ‘How they [SOs] are supposed to be used does not quite fit with how they are used in practice’.

Both Jones15 in the UK and Wilkinson14 in NZ gave examples of nurses generating prescriptions for doctors to sign, mistakenly thinking these are SOs. Scott-Jones also acknowledged that PNs generating prescriptions for GPs to sign is common practice, with GPs and PNs both believing they are working under SOs.

With a range of disciplines including pharmacists and podiatrists beginning to work with SOs, and proposed changes in who can issue SOs (nurse practitioners and optometrists), measures are needed to improve understanding of their use.

Misunderstanding and misinterpretation of SO use may partially occur because no single organisation is taking the lead to support implementation and monitor use. Measures to improve the quality of usage would be worthwhile implementing, given their use is currently commonplace in general practice and likely to continue.

In line with recommendations made internationally,9,33 it makes sense these measures be coordinated and implemented by key stakeholder organisations. We suggest the Ministry of Health alongside the Royal New Zealand College of General Practitioners (RNZCGP) as organisations to potentially take a lead in developing standardised SOs, and for a nursing professional organisation to develop a standardised education framework.

Despite changes to health professional prescribing, stakeholders still endorsed the current use of SOs. They did, however, raise concerns about the lack of national quality assurance measures to ensure SOs are uniformly developed, implemented and quality assured. This aligns with previously published international findings.7,14,35
Despite a nationally available template for development and use of SOs, participants noted the practise of individual general practices developing, implementing and auditing their own versions, with a lack of strategic organisations able to provide the appropriate information or advice. This does not ensure that GPs and PNs are meeting the legal and professional standards for use. Similarly, participants perceived that some GPs did not understand their responsibilities regarding the issuing of SOs, or ensure regular quality checks in terms of use.

This study suggests that standardisation of education is important and the current practice of in-house training given by GPs to PNs regarding assessment and diagnosis is insufficient to ensure PNs have the necessary skills. While nurses are expected to be competent in terms of the NCNZ standards to administer medicines within the constraints of legislation (competency 2.1 and 2.9), previous studies have found a need for greater education and/or training around the development, implementation, use and audit of SOs.

Some ad hoc mechanisms were suggested by participants to address these issues; however, we propose a broad systems approach to change. This includes the promotion of the correct definition of SOs; formalisation of a standardised, clear set of up-to-date SO guidelines including detailed legal, professional and competence requirements for GPs and PNs; and establishment of a national standardised template of SOs for common conditions with agreed medicines and doses. As is common in the UK, a pharmacy professional body should be included in setting-up guidelines to ensure additional safety aspects are in place.

As the RNZCGP already undertakes interdiscipli- nary quality assurance checks on general practices through the ‘Aiming for Excellence’ Cornerstone accreditation programme, they could take on a major role. They could advise on the training required to implement SOs in general practice, and Cornerstone accreditation could include measures to monitor that SOs are instigated, maintained and reviewed on a regular basis. Currently, only doctors issue SOs and it seems reasonable that a medical organisation pro-

vide information and advice on how to develop and implement legally and professionally sound SOs. It is unlikely that SO use will decline in the future; the importance of a national approach that ensures the safety of both patients and health-care practitioners should not be underestimated.

**Strengths and limitations of the study**

Although participants were nominated by their organisation’s Chief Executive Officer, not all appeared to have a clear perspective of the organisation’s view. It is therefore possible that some participants did not provide an accurate account of their parent organisations’ views. A second interview could have been sought with another person in their organisation to address this issue.

If time and resources had allowed, other potential stakeholder organisations could have been approached to ascertain their views on this issue; for example, the Medical Council or the College of Nurses Aotearoa. Similarly, views of other organisations could have been sought, such as Regional Public Health or Family Planning Association, both of which employ nurses using SOs.

**Conclusion**

This study has found a suboptimal understanding about SO use in general practice by some of the key strategic professional stakeholder organisations. It also identified a lack of standardised training or education on SO development, implementation or use, and no single organisation providing advice on these issues. It is therefore unsurprising that some GPs and PNs are less than clear about the legal requirements for development and implementation of SOs in general practice.

**References**


CONFLICTS OF INTEREST
The authors have no conflicts of interest to disclose.

COMPETING INTERESTS
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