Provider-based barriers to provision of intrauterine contraception in general practice

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Practitioner-based barriers to the universal provision of intrauterine contraception in general practice

Corresponding author: Lesley Hoggart, Lesley.hoggart@open.ac.uk. The Open University, Faculty of Health and Social Care, Horlock Building, Walton Hall, Milton Keynes, UK MK7 6AA.
Tel and fax: 01908 659441

Co-author: Susan Walker, susan.walker@anglia.ac.uk. Anglia Ruskin University, Faculty of Health, Social Care and Education, William Harvey Building 2nd floor, Bishop Hall Lane, Chelmsford, UK CM1 1SQ. Tel and fax: 0845 196 4663

Co-author: Victoria Louise Newton, victoria.newton@open.ac.uk. The Open University, Faculty of Health and Social Care, Horlock Building, Walton Hall, Milton Keynes, UK MK7 6AA.
Tel and fax: 01908 659441

Co-author: Mike Parker, mike.parker@anglia.ac.uk. Anglia Ruskin University, Post Graduate Medical Institute, Faculty of Health, Social Care and Education, William Harvey Building 2nd floor, Bishop Hall Lane, Chelmsford, UK CM1 1SQ. Tel and fax: 0845 196 4663

Key words
Intrauterine devices; intrauterine systems; contraceptive barriers; general practice; long-acting reversible contraception

Word count: 3429
Abstract

Objectives: Intrauterine contraception (IUC) is highly effective, safe and long-lasting, but is not a popular method of contraception amongst British women. This research examines barriers to the uptake of IUC in a general practice setting in England.

Method: A sequential mixed-method approach to explore the views of practitioners regarding the provision of IUC. We e-surveyed 208 practitioners from 69 practices in a region of England and subsequently interviewed 14 practitioners from 8 practices.

Results: Just under half of GPs (46.8%; 58/124), and only 8.2% (4/49) of nurses, reported being trained to fit IUC. Lack of knowledge of IUC was a barrier to fitting, and also to recommending IUC, especially by practitioners who were not trained to fit. There was discordance between reported knowledge of eligibility for IUC and the likelihood of recommending IUC. Respondents were less likely to recommend IUC to young, nulliparous women, women who had experienced a previous ectopic pregnancy, a recent STI, or abnormal cervical smear. The qualitative data indicate that risk aversion and limited training sitting alongside practitioners’ assessments that women are uninterested, may lead to IUC being overlooked as a suitable method.

Conclusion: Increased practitioner education, for those not trained to fit IUC, may remove a barrier to the uptake of IUC in General Practice. More research is required on the discordance between the practitioners’ views on the characteristics of women considered suitable for IUC, and the criteria set out in the UK Medical Eligibility Criteria (UKMEC) guidelines.

Key Messages
1. There is discordance between practitioner knowledge of eligibility for IUC and the likelihood of recommending IUC to the full range of possible patients.
2. Practitioner lack of knowledge about IUC acts as a barrier to recommending IUC in contraceptive consultations.
3. Increased training in IUC counselling for practitioners who do not fit IUC could address barriers to recommending IUC and referring on to other services.
Practitioner-based barriers to the universal provision of intrauterine contraception in general practice

Introduction

Intrauterine contraception (IUC) is a form of long-acting reversible contraception (LARC) which can provide several years of protection against unintended pregnancy. On a par with sterilisation, this method is over 99% effective in preventing pregnancy, and is suitable for all women, including young and nulliparous women.[1] According to the Medical Eligibility Criteria (MEC) of the World Health Organisation (WHO), the advantages generally outweigh theoretical or proven risks for women from puberty to age 20 years both for initiation and continuation of copper and hormonal IUC.[2] Whilst IUC is safe, efficient and convenient in the long-term, researchers largely concur that long-acting contraceptive methods are not popular,[3] particularly amongst young women in the developed world,[1] and that many women display a lack of awareness or understanding of IUC.[4]

In 2005 in the United Kingdom (UK) the National Institute for Health and Care Excellence (NICE), a body which makes recommendations based on effectiveness and cost effectiveness of treatments, recommended increased use of LARC for all women seeking contraceptive advice.[5] The recent increase in LARC use is mainly due to an increase in the uptake of contraceptive implants, and not intrauterine contraception.[6] IUC remains an unpopular method in England in particular. Our data from the patient survey arm of this research project showed IUC used by only 13.1% of women attending the surgeries and completing the survey, as compared to 21.8% using oral contraception (COCP/POP).[7] Data available from the NHS England Sexual and Reproductive Health Activity Dataset (SRHAD) for 2016 shows that IUC is used by 14% of women, as compared to 45% using the COCP/POP and 14% condoms.[6]

Internationally, research suggests that gaps in medical training and health care services result in some professionals lacking appropriate knowledge or even harbouring misperceptions of their own.[8, 9, 10] Of particular note is the reluctance of some health care professionals to consider adolescents and nulliparous women as suitable candidates for IUC, reinforcing perceptions that IUCs suit a narrower range of women than international
and national clinical guidelines advise.[11, 12] Internationally, cost can also be an issue, but this is not the case in the UK, where contraception is provided free of charge.

Recent evidence about the attitudes, experience and practice of UK practitioners regarding IUC is limited. It might have been expected that NICE Guidance (2005) and the introduction of a Quality Outcomes Framework (QoF) payment encouraging GPs to advise women on all forms of LARC in 2004 might have changed the situation. However, two subsequent studies found that practitioners were less likely to recommend IUC to younger women,[13, 14] and a 2014 survey of 150 UK based GPs and Family Planning Practitioners (as part of a larger study) found that the most frequently reported barriers to the use of IUC were nulliparity, concerns about pelvic inflammatory disease (PID), concerns about difficult insertion and the belief that women do not like the method.[15] This research called for improved training to overcome the persistence of beliefs that are not supported by evidence. The United Kingdom Medical Eligibility Criteria (UKMEC) guidelines for IUC place no restrictions on its use (UKMEC1) in nulliparous women, women with a history of PID or previous ectopic pregnancy [16] and state that the advantages outweigh the risks of its use (UKMEC 2) in teenagers, those at risk of STIs, and with HIV.[16]

Our research sought to understand barriers to uptake of IUC in general practice, and to provide evidence that could help explain the persistence of low uptake. The research was conducted with practitioners and patients. This paper focuses only on the results from the practitioner arm of the study. The results from the patient arm of the study have been published separately.[7, 17]

**Methods**

The Study was registered on the NIHR CRN Portfolio, study ID 15912 "Acceptability of intrauterine contraception: a mixed methods study". Our full methods are reported in detail elsewhere.[7, 17] The practitioner arm reported in this paper adopted a QUANT/qual approach, in which a quantitative online survey (e-survey) was followed by qualitative interviews in order to generate explanations for findings. Ethical approval was obtained from NRES Committee London South East (14/LO/0004).

Our research was conducted in one region in South East England, and the local Primary Care Research Network (PCRN) supported study recruitment. A total of 69 (12%) practices out of
577 in the region took part in our e-survey (via SurveyMonkey) and from those we received 208 individual responses. The e-survey was followed up by qualitative interviews with 7 General Practitioners (GPs) and 7 Practice Nurses (PNs) from across 8 practices. One nurse withdrew informally from the study (by not returning a consent form following a telephone interview). The qualitative data for interviewee PN06 were therefore excluded from analysis. Our quantitative sample was pragmatic and non-random and as a consequence we have reported only descriptive statistics and cross-tabulations. The non-random sampling method was chosen to allow us to maximise responses to the survey, as it was felt that any attempt to generate a random sample, within the budgeting and time constraints of the project, would result in a very small response rate. Practices were remunerated for the time of staff participating. We present the quantitative findings of a cross-section of practitioners as an indicator of likely barriers. We do not claim that our findings can be generalised with respect to frequency.

The demographic and practice characteristics of those who responded to the e-survey are presented in Table 1.

<table>
<thead>
<tr>
<th>Table 1</th>
<th>Demographic and practice characteristics of respondents to practitioner survey</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td></td>
</tr>
<tr>
<td>Count</td>
<td>%</td>
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</tbody>
</table>


<table>
<thead>
<tr>
<th>Male</th>
<th>58</th>
<th>32.2</th>
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<tr>
<td>Female</td>
<td>122</td>
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<td></td>
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<tr>
<td>GP</td>
<td>124</td>
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<td>Practice nurse</td>
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</tr>
<tr>
<td>Advanced Nurse Practitioner</td>
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<td>2.8</td>
</tr>
<tr>
<td>GP registrar or FY2</td>
<td>4</td>
<td>2.2</td>
</tr>
<tr>
<td>Other</td>
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<td>2.2</td>
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<td><strong>Total</strong></td>
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<td>100.0</td>
</tr>
<tr>
<td>Age</td>
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<td></td>
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<tr>
<td>20-29</td>
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<td>2.2</td>
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<tr>
<td>30-39</td>
<td>41</td>
<td>22.5</td>
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<td>60-69</td>
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<tr>
<td>Year of qualification</td>
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<tr>
<td>1971-1980</td>
<td>23</td>
<td>12.7</td>
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<td>1981-1990</td>
<td>58</td>
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<td>1991-2000</td>
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<td>27.1</td>
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<tr>
<td>2001-2010</td>
<td>40</td>
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<tr>
<td>After 2010</td>
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<td>2.2</td>
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<tr>
<td><strong>Total</strong></td>
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<tr>
<td>Trained to fit IUC</td>
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<td>70</td>
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<tr>
<td>NO</td>
<td>133</td>
<td>65.5</td>
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<tr>
<td><strong>Total</strong></td>
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<td>Post-Registration Qualification in Contraception</td>
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<tr>
<td>NO</td>
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<td>35.7</td>
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<tr>
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<td>Which qualification?</td>
<td>DRCOG²</td>
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</tr>
<tr>
<td>DFRSH³</td>
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<td>27.4</td>
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<tr>
<td>Postgraduate Certificate</td>
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<tr>
<td>ENB⁴</td>
<td>18</td>
<td>8.7</td>
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<tr>
<td>Other</td>
<td>24</td>
<td>11.5</td>
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<tr>
<td>Practice Characteristics</td>
<td>Enhanced service payment for the fitting of IUC</td>
<td>155</td>
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<td>Training practice which trains medical students</td>
<td>128</td>
<td>61.5</td>
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<tr>
<td>Practice which mentors student nurses</td>
<td>41</td>
<td>19.7</td>
</tr>
<tr>
<td>Practice which trains other staff to fit IUC</td>
<td>25</td>
<td>12.0</td>
</tr>
</tbody>
</table>

1. Foundation Year 2 (junior doctor grade)
The e-survey questions were developed from existing literature, in particular drawing on a US study,[11] and from the clinical experience of one of the authors [SW]. It was refined by the research team and an advisory group, and piloted. The topic guide for the semi-structured qualitative interviews was developed from the preliminary findings from the e-survey.

Descriptive quantitative analysis was carried out using SPSS (IBM SPSS Statistics for Windows, Version 20.0. Armonk, NY: IBM Corp), and ‘R’ (R: A language and environment for statistical computing”, In: R Foundation for Statistical Computing, Vienna, Austria: R Development Core Team; 2015.) The qualitative data were originally analysed independently by two researchers, who checked each other’s selection of themes and employed a descriptive thematic analysis.[18] The transcripts were then coded independently by two researchers using the data management software Nvivo (QSR International Pty Ltd. Version 10, 2012).

The final analysis was checked against the original transcripts for accuracy and context. The qualitative data allowed us to generate answers to questions that emerged from our quantitative findings.

**Results**

**Quantitative findings**

Two strong themes in the quantitative data were around fitting and training, and around knowledge and opinions.

**Fitting and Training**

Of the 208 practitioners who responded to the e-survey, 70 (33.6%) reported being trained to fit IUC. In contrast, 133/208 (63.9%) reported having a post-registration qualification in contraceptive care. 13.2% of those trained reported that they did not fit IUC in their

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1 Strictly speaking this is not a qualification in contraception, but is a common qualification taken by GPs in regard to women’s health, and includes a section on fertility control/contraception.
present role. 8.2% of respondents reported that no-one in their practice was trained to fit. In the UK, General Practices can receive a locally enhanced service payment (ESP) to fit, monitor, check and remove IUC. There was a statistically significant difference in terms of numbers of practitioners trained to fit IUC between practices receiving ESP and those not, with 57.7% (15/26) of non-ESP practices reporting having no-one trained to fit, compared with 1.3% (2/154) of ESP practices (p<0.001, Fisher’s exact test).

Practitioners were asked about potential barriers to providing or recommending IUC within General Practice. They responded by ticking boxes against a list of statements and were also provided with an opportunity to give a free-text ‘Other’ response. Respondents could tick multiple boxes and so findings are reported as numbers of respondents endorsing each potential barrier. Ninety respondents endorsed at least one statement (N=90). Responses were analysed according to whether or not the practitioner reported being trained to insert IUC. Non-trained practitioners endorsed many more proposed barriers than trained practitioners. Unsurprisingly, the most endorsed barrier was lack of training to insert IUC (n=54) or not knowing enough about IUC (n=23). These statements were endorsed only by non-trained practitioners.

**Knowledge/Opinion gap**

Respondents were asked to state whether they thought a range of statements about IUC were TRUE or FALSE or they were UNSURE. Fig. 1 lists these in order of those statements most marked as ‘TRUE’.

**Insert Figure 1  Knowledge regarding IUC**

Respondents were also asked how likely they were to recommend IUC to women with a range of characteristics. Fig.2 is ordered from most to least likely to recommend.

**Insert Figure 2  Likelihood of Recommending IUC**
Opinions

We noticed a difference between responses with respect to knowledge regarding eligibility and likelihood of recommending IUC. This may indicate a gap between cognitive knowledge and actual practice. For example: 178 (97%) answered ‘true’ to the statement ‘IUCs can be used in patients with no previous pregnancies’, whereas only 116 (63%) would recommend IUC to women who had never had children; and 136 (74%) answered ‘true’ to the statement ‘currently available IUC methods are suitable for all ages’, but only 76 (42%) were likely or very likely to recommend IUC to women under 20.

Two main issues identified and selected for exploration in the qualitative interviews were therefore: 1) the dissonance between knowledge about suitability of IUC and the categories of women to whom the practitioners would be likely to recommend IUC (a gap which has been recognised in other fields such as diabetes care and osteoporosis treatment;[18]) and 2) training barriers and why a lack of training to fit IUC might affect confidence in recommending IUC.

Qualitative Findings

Our thematic analysis on practitioner-based barriers to IUC identified four strong themes:

- proactive selection of women for whom IUC is considered suitable
- risk aversion
- perceived and received knowledge of ‘what women want’
- competencies, training deficits and confidence.

Proactive selection

Most of the practitioners, both GPs and practice nurses, felt that IUC was suitable for more women than were currently using it, and that it could be used more by young women. Some practitioners, however, said they were less likely to recommend IUC to young or nulliparous women, and this data is therefore important. GP05 (trained) indicated proactive selection of women:

*After the first child I try to steer them towards the coil insertion and I prefer not to do it in the nulliparous unless they specifically request.*
Others mentioned the very limited circumstances in which they might recommend IUC. GP03 (trained) described how other methods had to fail before IUC was considered:

> for the youngsters ... if they’re not good [at taking the pill] then the implant I think is what we tend to try and go for next, then Depo and then say the coil for when all else fails.

The view that IUC was an ideal form of contraception to target at women who seek out emergency hormonal contraception (EHC) was also expressed:

> If they’d had one lot of emergency contraception, that was fine. If they came a second time then they got sent to me and we’d try and talk them round and have coils fitted (PN04, trained).

**Risk aversion**

If respondents expressed a reluctance to recommend IUC to some groups of women, the reasons they gave were primarily based on technical difficulties and the perceived heightened risks associated with the procedure for nulliparous women:

> The ladies that haven’t had children the cervix tends to be closed making it technically a bit more difficult to physically get the coil in [...] also ladies that have had children and are more familiar with gynaecological examination tend to tolerate the procedure better. (GP03, trained).

GP05 (trained) noted that

> the cervix is so sensitive in the nulliparous, that’s my only concern

and worried about cervical shock in those circumstances.

Selection against younger women was also explained by a perception of heightened aged-based risks:

> the infection risk with the chlamydia and things like that is [...] much higher in those under 25. And I think that age group as well [...] we want to be certain ladies aren’t pregnant when we put coils in, they have to abstain from intercourse and have alternative contraception beforehand, I find that group tend to be more difficult when it comes to that. (GP03 - trained).
The perception of IUC insertion as a risky procedure was a strong theme identified in the qualitative data:

You always run a risk with any gynaecological procedure of increased sort of complaints...you can perforate uteruses, cause really nasty infections, drop blood pressures...it’s not without risk (GP03, trained).

This was a risk that was highlighted by practice nurses who explained that perforation was a major risk that distinguished IUC fitting from implant insertion:

Part of me is still slightly nervous, you think ‘ooh what if I do, what if I perforate or do something wrong’ (PN07, not trained).

Perceptions of risk also informed ideas about the different roles of doctors and nurses. The risk of litigation was seen as a burden which doctors, rather than nurses, are more likely to accept in their everyday practice.

The practice nurses don’t want to do it because it’s quite...an invasive procedure and a lot of nurses are a bit scared about litigation (PN04, trained).

**What women want**

Practitioners explained their own hesitation at recommending IUC more generally by referring to what women want. Most practitioners stressed that contraceptive consultations were patient-led and there was a perception that the most difficult barriers to address lay with the women themselves who know which method they would like:

I don’t think we do so much contraceptive choice consultations in general practice, a lot of younger ladies will come and say, “I want the Pill, I want the injection, I want an implant”; they’ve often made their mind up before they come (GP04, trained).

Additionally, practitioners felt that women themselves were averse to IUC:

I definitely feel that a lot of women, when you just say “coil” recoil (GP07, trained).

In this context, women would need to be proactive and request IUC.

Practitioners were asked why they thought women might be averse to IUC. Their explanations centred upon the role of women’s informal information sources on their contraceptive choice:
Often women will pay more attention to each other and the media than they will health professionals (PN02, trained).

Other practitioners thought that discomfort around fitting could cause general negativity, and that hearing about other women’s bad experiences led to reluctance to try the method:

*I think there’s a lot of bad experiences out there, and those that haven’t had children they hear horror stories about the fitting of the coil so therefore, choose not to have it* (PN03, not trained).

**Training**

The qualitative interviews provided some plausible explanations for the training-based barriers. A shortage of trainers was identified as an issue:

*There aren’t that many people that train and so I was probably waiting for at least a year* (GP07, trained).

Funding for training was also cited as a barrier:

*I think part of it is funding, part of it is the availability of training and mentorship* (PN05, not trained).

However, practitioners also thought that lack of demand was a limitation on training:

*if for example there were lots of patients within a practice who it was obvious they needed coils fitting, lots of people were trying to book appointments and they were getting frustrated they couldn’t get any, then it would generate a need and perhaps that would be a way to try and get nurses to do it* (PN02, trained).

These limitations fed into issues around revalidation and who should have precedence with respect to fitting sufficient numbers of IUC to retain competency. Maintaining competency was also seen as a potential problem in practices where there is a lower demand and/or more practitioners are trained:

*You need to be fitting a certain number of coils per year or per month and that the general feeling is that you won’t be able to see that many, if many of us are doing the fitting* (GP06, not trained).
There was an awareness that practice nurses are not often trained in IUC fitting (although they assist with fittings, and some are trained in other LARC methods), and it was acknowledged by both general practitioners and nurses that additional nurse training in IUC may help strengthen their contraceptive service. However, a number of barriers were identified. It was noted that nurses have a lot of clinical skills to maintain, and training in IUC could mean losing a different skill, or being too stretched to continue to deliver all of their other services effectively:

*We have lots of different roles, lots of different hats, so we’d have to be taken away from something else to actually do that* (PN05, not trained).

Other barriers included ideas about job roles and who should fit IUC:

*Not all family planning GPs wanted to actually train any nurses to do it because the way they see it, is that we’re taking their jobs* (PN04, trained).

As discussed earlier, there was also evidence of risk aversion, and this affected practice nurses’ willingness to consider training.

**Discussion**

The strength of this study lies in the use of qualitative interviews to amplify the findings of the quantitative e-survey. New insights obtained from the qualitative data add to understandings of barriers, and suggestions of how they may be ameliorated in a general practice setting.

We acknowledge that there are some limitations to our study. We used a non-random sample of practitioners for the e-survey resulting in the possibility of bias in the findings, since the attitudes, knowledge and experiences of non-responders cannot be ascertained and may have differed from those who did respond. Additionally, with both samples it is important to bear in mind that these practitioners opted-in to the study and thus may be more likely to be supportive of IUC than a representative sample. As such, we are likely to be understating the barriers we have identified.

Changes in the past 5 years to the way contraceptive and sexual health care services are commissioned and funded in the UK have led to increased complexity and fragmentation of the services. GP practices may undertake insertion of intra-uterine contraception as part of
a locally enhanced services (LES) contract (or similar local arrangement), which varies from region to region, and is commissioned by the Local Authority (RCGP position statement March 2014).[20] These usually take the form of a fixed payment per device inserted, monitored and removed. Training of nurses or doctors is not generally included in such arrangements, and the costs in terms of time, and any fee for training, are borne by the practice (as employer) or the individual practitioner. Indemnity for nurses employed by a general practice is funded by the nurses, or by the employing practice. Undertaking more advanced procedures such as insertion and monitoring of IUC may lead to increased indemnity fees, which are another expense associated with providing IUC services at a practice level. This reimbursement structure helps account for the difficulties expressed by practitioners with regard to training staff, funding for training, and staff time in terms of providing an IUC service. Our study did indicate that enhanced service payments for fitting and removing IUC appear to have a beneficial effect on numbers trained to supply IUC within a practice. Commissioning of practices should include recompensing them for the time and cost involved in supplying IUC, and ensuring that all women have local access to practices where IUC is provided.

In our quantitative sample only a very small number of practitioners were trained to fit IUC, or even had a specialist qualification in contraception. Given the expanded role of practice nurses with regard to contraception, it is especially concerning not only that few nurses were trained, but that significant barriers to such training were identified in the qualitative interviews. We also found that lack of knowledge about IUC acted as a barrier to initiating discussion about IUC, let alone recommending it. This suggests that increased training in IUC counselling for practitioners who do not fit IUC could address barriers either to recommending IUC or to referring on to other services if necessary. A requirement for a basic level of training on IUC as a method of contraception for all practice nurses who provide contraceptive advice might help ensure that contraceptive counselling includes knowledgeable discussion on all methods, which is particularly important when women express a preference for LARC methods.

There is a gap between practitioner assessments of which women are suitable for IUC and those who are eligible for the method according to UKMEC guidelines. Whilst this is not a new finding, it is a persistent one. The difference between responses with respect to
eligibility and suitability is of interest and may indicate a gap between cognitive knowledge and actual practice. The qualitative research helps clarify why practitioners may make non evidence-based judgments about characteristics of women for whom IUC is suitable. The effect of this is likely to be unnecessary restriction to recommending IUC for women for whom it is a valid and safe contraceptive option. Our wider study, also reported in this issue, suggests a double barrier effect: IUC is not offered to women because they do not request it, but women do not have good knowledge of IUC and opportunities to discuss the method are being missed.[17] This impasse is reinforced by the barriers identified around training, which is not seen as a priority when low demand does not justify its time and expense.

Measures need to be taken to dissipate both practitioner assumptions about women’s suitability and demand for the method, and women’s misperceptions about IUC, to ensure that as far as possible women are able to make informed choices based on the full range of contraceptive methods that may be suitable for them. Research has shown that additional practitioner training may help: a 2013 survey of 106 US medical students found that poor knowledge of IUC was improved by an obstetrics and gynaecology attachment.[9] Research has also suggested the need for specific targeted strategies to encourage implementation of research-based recommendations to ensure change in practice, since passive dissemination of information is generally ineffective (21, 22). In the case of our research, this may include the development of an ‘aide memoire’ designed to address patient concerns, for all practitioners who provide contraceptive consultations in general practice, not just those who are trained. This could help address the knowledge-practice gap around IUC provision.

Acknowledgements

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Figure legend
Figure 1 Knowledge regarding IUC

Figure 2 Likelihood of Recommending IUC