Providers’ approaches to contraceptive provision in Cape Town

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Background: Health care providers can play a significant role in empowering women to make informed decisions when selecting suitable contraceptive methods during contraceptive counseling. This study explores primary care providers’ perspectives and approaches to contraceptive service provision for women attending public sector clinics in South Africa, with the intention of ascertaining established practices and training needs.

Methods: Ten in-depth interviews were conducted at five primary health care facilities in urban areas in Cape Town, South Africa. Eligible participants included nurses providing contraceptive services and willing to participate in the study. The qualitative software package NVivo was used to sort and manage data. Data was analyzed using a thematic analysis approach.

Results: Overall, providers emphasized supporting women in contraceptive decision-making. Sexual and reproductive health training increased providers’ confidence to deliver appropriate contraceptive services. Contraceptive prescribing practices were influenced by women’s medical history and preferred bleeding patterns. Providers’ concerns about adherence to methods for younger women and suspected adverse events for older women impacted on prescribing. Challenges experienced when providing contraceptive services included: contraceptive stockouts; time constraints of employed women accessing the service; and their work pressure due to providing other health services.

Discussion: Health care providers play a critical role in facilitating women’s right to access high quality contraceptive services. Providers saw themselves as negotiators during contraceptive counseling. They considered both women’s preferences and their own recommendations for contraception, to provide information that would enable women to make informed contraceptive decisions. By reinforcing this approach to contraceptive counseling and focusing on shared decision-making, should encourage autonomy in method selection and limit the influence of provider’s contraceptive method selection.

Keywords: family planning, contraceptive provision, contraceptive counseling, health care providers, South Africa, qualitative research
Introduction

Universal access to family planning services is critical to meet the sexual and reproductive health needs and desires of reproductive aged women. In 2019, globally, 190 million women of reproductive age wanted to avoid unintended pregnancy but were not using a contraceptive method (1). Reported reasons for non-use include misperceptions about the risk of pregnancy, concerns related to contraceptive side effects, partner resistance and, conflict between religious beliefs and use of contraception (2). Increasing contraceptive uptake could prevent millions of unintended pregnancies (2), minimize the risk of maternal and infant mortality (3, 4), and prevent adverse health outcomes from accessing unsafe abortion services in contexts where abortion services are unavailable or difficult to access (5).

In South Africa (SA), a 2016 household survey found the modern contraception-use prevalence rate was 47.9% amongst all women of reproductive age (15–49), which when compared to the 2003 rate of 50.1%, indicates a decline of 2.2% (6, 7). In SA, modern contraceptive methods are available at no cost in the public sector health services and include male and female condoms, injectable progestogen contraceptives, intrauterine devices (IUD), sub-dermal contraceptive implants (implant), oral contraceptives (OC) and sterilization (8). Notably, not all the listed contraceptive methods are offered at all public health facilities and methods may not always be available due to stockouts and lack of provider training in some methods (7). Amongst women using modern contraception, 16% of all women were using the depot medroxyprogesterone acetate (DMPA) injectable in 2016. Thus, DMPA remains the most used modern contraceptive method (6). In recent years, there has been significant debate about DMPAs role in increasing the risk of HIV acquisition amongst women using this injectable method (9–11). However, in 2019, the World Health Organization (WHO) released a statement advising there is no increased risk of HIV acquisition amongst DMPA users (12). Increasing access to accurate and comprehensive reproductive health information is important to empower women to make informed decisions about contraceptive method choices.

According to recent findings in SA, 12% of reproductive age women desired to limit or space their pregnancies but were not using contraception (6). Consequently, many women continue to experience unintended pregnancies (6, 13, 14). In 2019, the National Department of Health (NDoH) updated the National Contraception Clinical Guidelines (8). The updated policy, building on the 2012 guidelines, which expanded the availability of contraceptive methods (including longer-acting methods) in the public health sector such as the implant, introduced in public health facilities in 2014 (15), includes support for users’ agency and aligns local medical eligibility criteria (MEC) with the 2015 World Health Organization (WHO) MEC (8). The WHO MEC promotes the use of hormonal injectables in any circumstance; and, the use of progestogen oral pills (POC) or implants for breastfeeding women (16).

Increased risk of unintended pregnancy is not limited to non-users of contraception; inconsistent and incorrect contraceptive use may also result in unintended pregnancy (7). Inconsistent use may result from inadequate reproductive health information provided to women during contraceptive counseling. Previous South African studies found that many women report receiving insufficient information about their chosen method when accessing family planning services (7, 17, 18). Furthermore, women also discontinued contraceptive use due to unwanted side effects (6, 7, 17), and many desired more information about side effects and their management from health care providers (providers) (17). Furthermore, amongst women attending public sector clinics, only 56.4% of women were provided with information about side effects and 47.9% were advised how to manage these (6). These findings are alarming given that providers delivering contraceptive services within clinics play a significant role in facilitating the process of contraceptive decision-making. Their work includes providing information about the various contraceptive methods available, the possible side effects associated with each method and its suitability for women.

As most reproductive aged women in South Africa access family planning services from the public health sector, providers’ recommendations are powerful and could contribute to women selecting a contraceptive method (19). Consequently, the attitudes providers have toward contraceptive methods may influence or restrict women’s contraceptive choices. These biases may not be evidence-based or have medical reasoning (20).

For example, one study found that providers are more likely to recommend a two-month injectable to younger women citing return to fertility is faster in comparison to the three-month injectable despite recommendations that women should not be limited to use either injectable based on age (8, 18). Providers also restricted access to contraception if women were not menstruating, as lack of menstruation was used as a measure to determine possible pregnancy (18). Other possible biases include providers questioning the suitability of OC for younger women, as they are “forgetful” (21) or providers’ personal experiences with a specific contraceptive method may influence their recommendations (21). Furthermore, providers’ lack of adequate knowledge and training, level of confidence and access to updated clinical guidance may also influence their recommendations and delivery of sexual and reproductive health services (20, 22). For example, providers who have been trained to perform IUD insertion may be more likely to recommend this method (22). Lastly, external factors may influence providers recommendations including sociocultural norms and health system challenges (20).

To gain a deeper understanding of how providers influence delivery of contraceptive services, this study explores primary
care providers’ perspectives and approaches to contraceptive service provision for women attending public sector clinics in SA. Ascertaining their perspectives and experiences could explain their prescribing practices and inform interventions and training to enhance good practice.

Methods
Study design, research setting and study population

We conducted a qualitative study with primary health care providers (providers) at five nurse-based public sector health care facilities, delivering free contraceptive services, in addition to a range of personal health services, spread throughout metropolitan Cape Town, SA. Prior to the recruitment process, we scheduled a meeting with health managers who provided a list of health care facilities providing contraceptive services and key personnel to contact to assist with study recruitment. We obtained approval from area managers to contact facility managers within selected areas. Most facility managers preferred to inform eligible providers about the research study themselves and negotiated an appropriate day and time for an interview if providers indicated their interest. Eligibility criteria included providers delivering contraceptive services and willingness to participate in the study. Each sampled clinic had two providers delivering contraceptive services; thus, only two providers were recruited from the five selected facilities. All ten providers recruited agreed to participate in the study.

We used purposive sampling to approach staff working in a range of facilities based on geographical location and the diverse patient population accessing contraceptive services including youth, migrants, and women utilizing clinics proximal to their workplace. Facilities were selected to determine how the diversity of patient characteristics and their contraceptive needs influenced the perceptions and experiences of providers.

Data collection

A semi-structured interview guide was developed by the first author (KF) and reviewed by the third author (JH). Additionally, the guide was piloted with two providers who were later included in the study sample and re-ordered for flow and clarity. Prior to the interviews, providers were asked to share their sociodemographic information including their professional background and years of experience. During the interviews, they were asked about their training, how they conducted contraceptive counseling sessions and what factors they considered when making contraceptive prescribing decisions.

A total of ten individual in-depth interviews were conducted by KF, a female, English-speaking, Master of Public Health student trained in qualitative research methods. Interviews were conducted between October and November 2019. Due to English being a common language used in healthcare settings in SA, all providers agreed to the interview being conducted in English. Interviews were conducted in a private room at the facility and varied in duration between an hour and 90 min. Providers working at the same facility were interviewed on two separate days to avoid disrupting services.

Two vignettes were developed based on existing literature related to health care providers who are involved in family planning services in an African context (22). They were presented to providers prior to exploring their prescribing practices at the appropriate moment of the interview. The interview guide and vignettes are found in Supplementary material.

Vignettes present fictional characters as cases to explore the underlying knowledge, beliefs and attitudes of participants which might be challenging to identify when reporting on their personal experiences (23). They are useful when exploring how health professionals make clinical judgements or to identify biases toward patients or treatment (22, 24) and have been used to explore provider bias in contraceptive provision elsewhere (22). To limit socially desirable responses, vignettes should focus on asking providers how they would approach a specific clinical situation and that the “client” description has various characteristics beyond the specific characteristic (for example, age) the researcher is attempting to assess to avoid providers identifying the focus of the vignette (24).

In this study, the vignettes provided opportunity for further exploration into providers underlying attitudes and what factors they considered when recommending a specific contraceptive method. The first vignette aimed to explore how providers would approach counseling a female adolescent requesting OC, as it has been widely cited providers often question the suitability of OC for younger women (20, 25, 26). In view of research that reported that providers are more likely to recommend the IUD for women who have previously given birth (27, 28), the second vignette aimed to explore how providers would approach counseling a young woman who is primiparous requesting the IUD. Following the presentation of the vignettes, providers were asked to explain why they agreed or disagreed with the requested contraceptive method and if they disagreed, what alternative method would they recommend.

Ethical considerations

We obtained ethical approval for the study from the Human Research Ethics Committee at the University of Cape Town (HREC REF 536/2019). Permission was also obtained from the health authority in order to access facilities. Prior to the interviews, written informed consent was provided by all study participants including permission for audio recording. Providers
were also assured that to maintain confidentiality, identifying information would not be included in any research report, including their names, the facilities at which they work. We stored signed informed consent forms in locked cabinets. Digital data, including recordings and transcriptions, were stored in password protected files on a private, password-secured computer. Access to digital data was limited to the research team and a professional transcriber. We deleted all audio recordings after transcribing was completed and verified.

Data analysis

The audio recordings of the individual interviews were transcribed by an independent transcriber. The first author listened to all audio recordings and reviewed all transcripts for accuracy and quality. Reflexive memoing was conducted by KF throughout the data collection and analysis process. All sorting, management and coding of data used NVivo (QSR International) qualitative software. We developed a codebook based on a priori codes derived from questions in the interview guide. The codebook was further refined after inductive codes were derived from the data. We used a thematic analysis approach was to identify and examine key themes and sub-themes emerging from the data. Illustrative quotes are provided for each theme. Informants are identified by their rank and years of experience, with PN for professional nurse and SN for staff nurse. PN’s have four years training and work autonomously in specific areas including contraceptive prescription. SN’s have 2 years training and work under the supervision of a PN.

Results

Facility and participant characteristics

Amongst the five facilities selected, three facilities provided all the contraceptive methods available in public-sector facilities including progestogen-only injectables, OC including combined oral contraceptive pills (COC) and POC, male condoms, intrauterine contraceptive devices (IUD) and the implant. Two facilities provided all the contraceptive methods excluding the IUD; one facility provided injectables and OC only.

Ten providers were interviewed, two from each facility. All were female and included one registered staff nurse (SN) and nine registered professional nurses (PN’s) who provided contraceptive services. The median nursing work experience amongst providers was 8 years. In line with the services offered at their facility, in addition to family planning services, providers delivered a range of services including child health, women’s health services such as antenatal and postnatal care, youth-centered services, cervical smears and breast examinations and diagnosis, treatment and management of HIV and tuberculosis and chronic health conditions.

The key themes identified during data analysis included the influence of contraceptive knowledge on providers practice, attitudes toward providing contraceptive services and factors which influenced prescribing practices. Sub-themes are explored within each key theme.

Influence of contraceptive knowledge on practice

Providers emphasized that contraceptive knowledge prepared them to confidently deliver comprehensive contraceptive services. This knowledge came from prior sexual and reproductive health (SRH) training and clinical guidelines.

Sexual and reproductive health training

All providers had prior knowledge of contraception acquired through their studies, work experience and/or training. When commencing this work, they relied on previous knowledge, which gave them confidence to deliver an effective service. Over the course of their employment, providers who delivered contraceptive services were expected to complete an additional six-month SRH training course. After this training, many reported they found their prior knowledge did not sufficiently prepare them to provide contraceptive services that promoted women’s contraceptive preferences:

> … except for you know how to inject … you don’t really have that background knowledge of choosing what is best for the client. Whereas when you get this [SRH training] course you have a better understanding of how to, to treat. (PN, 3 years)

Furthermore, many providers reported the training challenged common misconceptions about the suitability of certain contraceptive methods for women. Consequently, the training prompted reflection on prescribing practices and to critically reassess if these aligned with women’s contraceptive needs and desires. For example, one PN who attended the training reported that clinic staff deterred providers from prescribing implants for younger first-time contraceptive users which differed from the training information received:

> … [Clinic staff] would say ‘never put in an [implant] for a 16 year old that’s never had family planning’. And when I did sexual reproductive training [SRH trainers] said like why not? … So, there’s some myths that … was clarified … I sat in that training, I was like – now why do people say that, like why? Why are [nursing staff], like so resistant to do certain things and we can. (PN, 4 years)
Additionally, one PN with 3 years’ experience, who recently enrolled in the training emphasized that providers delivering contraceptive services needed additional SRH training “… because [clinic staff] are mis-prescribing, we are giving wrong information, we’re not giving enough information with regards to reproductive health”, despite their previous knowledge gained from their professional qualification and training. This indicates that some relied on training to ensure their contraceptive knowledge was up to date, and most providers who attended SRH training were more confident to prescribe suitable contraceptive methods for women. This included the five providers who received training on implant and IUD insertion and removal. Those who had undergone IUD training often promoted the IUD to first time contraceptive users as well as those considering switching to a non-hormonal contraceptive method due to side effects. Conversely, providers who had not received training felt less confident to promote the IUD to women despite having theoretical knowledge of the IUD, and would only provide information and not prescribe the IUD when requested:

… but personally, me, I won’t [prescribe the IUD]. The IUD, I’m not supposed to do that, but I don’t really advertise as much you know, but at the end of the day it’s still, if they ask for the information I will give them. But I won’t … I don’t like to do things that I’m not able to stand my ground. (PN, 11 years)

Clinical guidelines

In addition to their knowledge acquired through training, most providers also used algorithmic clinical guidelines to assist with clinical decision-making. Some reported the guidelines increased their confidence in clinical decision-making. However, others reported that the guidelines were only suitable for the “normal/ideal patient” and were not tailor-made for all women. Furthermore, some associated the use of clinical guidelines with “computerized” – to follow the decision-tree based assessment as opposed to exploring women’s specific contraceptive needs:

… Each patient is different and … the PACK [clinical guideline] isn’t always like about the patient … you can follow the PACK but there’s some cases where it’s not like as in the algorithm … like I think that [providers] have been computerized … I think that we’ve driven away from what the patient needs and each patient is different. And we try and generalize and that’s the biggest mistake. (PN, 4 years)

Consequently, at times, some providers overlooked clinical guidelines in favor of prioritizing women’s personal contraceptive needs. For example, one PN with 33 years’ experience, questioned why women older than 40 years should switch from injectables to POC because it is “…stated in a book somewhere” and reported that she would prioritize women’s preferences “if [the patient] wanted to stay on it because [they] feel safe, that’s fine with me, I will give it”. Conversely, others reported that women older than 40 years should be counseled to switch from injectables to POC, basing this on “clinical guidelines” that suggest that injectables might result in reduced bone density. However, the risk of osteoporosis and risk of fracture remains uncertain in long-term users of injectables, such as depot-medroxyprogesterone (29).

Providers’ contrasting opinions highlights how they weighed clinical knowledge and judgment against women’s contraceptive needs. One PN maintained that she would not provide COC to women who have hypertension regardless of their choice as she needed to use clinical judgment to prescribe methods for women who could have adverse health outcomes:

But if [patients] choose oral contraceptive while there are things that are hindering me to prescribe this oral contraceptive, I won’t provide it. Because at the end of the day, let’s say they have a raised blood pressure that is part of the side effects of the oral contraceptive. So for me to … put your life at risk as a patient, I wouldn’t be able to sleep at night knowing that I killed a patient. (PN, 7 years)

Providers were generally not flexible about recommending COC’s if it was contraindicadicated after assessing a woman’s clinical history as they perceived the risk of an adverse event to be high and possibly dangerous. An alternative, more suitable contraceptive method then would be recommended. In comparison, providers had varying levels of flexibility for women over 40 years old continuing to use injectables, with some feeling more comfortable to continue prescribing injectables despite “clinical guidelines”. Providers also described their dilemmas when, based on medical history, women’s preferred contraceptive methods were not suitable for them, yet women would insist on using it. In these situations, providers attempted to educate women about contraindications or provided them with booklets to read at home. However, if women refused alternative methods, they would document this and prescribe the preferred method as they reported “at the end of the day, it’s the patient’s choice”. Thus, despite many providers emphasizing that women have the right to choose their desired contraceptive method, they also used their clinical knowledge and experience to counsel women to use a more appropriate method, particularly when contraindications were present.
Attitudes toward providing contraceptive services

Most providers enjoyed engaging with women about their sexual and reproductive health, providing health education and supporting women in their reproductive health choices. They maintained that access to contraceptive services was essential for women, including younger women, as it would allow them to space childbearing and avoid the socioeconomic impact that unintended pregnancy could have on both mother and child:

I think it’s an absolute necessity … it doesn’t matter what age you are, people need to be able to have the right to decide when they want a child … or if they want children at all. I think it is part of, one of the building blocks in our communities. Because if we are not going to allow any lady to not be able to decide when she wants, she’s going to end up with children that she’s not going to be able to care for. She’s not going to be able to care for herself. (PN, 33 years)

Consequently, many providers were supportive of family planning decisions being centered on women’s reproductive needs and desires through exploring their contraceptive preferences. They perceived themselves as negotiators who assisted women to make contraceptive decisions by delivering accurate reproductive health education that accounted for both women’s preferences and provider’s recommendations:

You negotiate yes, but it must come from them, you need to know what she wants. I can’t say this is good for you because of this benefit – but it’s not what [the patient] came for, [they] wanted the 2 months [injectable] but you’re advising for 3 months [injectable] … so let them talk, let’s just share. (PN, 7 years)

Thus, many providers disagreed with "forcing" women to use a contraceptive method they had not requested as they believed this would result in non-adherence. Consequently, to improve adherence, they felt that they should prescribe contraceptive methods tailored to women’s choices:

… But what I have seen is you cannot force a woman, if she does not want to use it. Because if you give her the tablets and she doesn’t want to take it, she’s not going to take it. So, don’t force yourself, give the patient’s what they want so they can be compliant on it. (PN, 5 years)

Contraception provision to younger and older women

Despite providers reporting the importance of negotiating with women about their desired contraceptive method, they displayed varying attitudes toward the suitability of contraceptive methods for specific age groups. Responses to the vignette of a 17-year-old female adolescent requesting to use COC demonstrated positive attitudes toward prescribing COC to younger women, but also highlighted perceptions of younger women’s inability to be “responsible”. Many believed COC should be prescribed for “mature”, “responsible” and "organized" women who “have a routine” whereas younger women were described as "forgetful" and lacking a structured, daily routine. Consequently, providers probed younger women’s adherence to other medication regimens to assess their ability to use COC consistently. Most would counsel younger women to use injectables instead, and some also suggested longer acting methods such as the implant and IUD. However, many also stated they would prescribe COC if women refused any other method as their main concern was the risk of an unintended pregnancy. Generally, providers advocated for and encouraged younger women’s access to contraceptive services by establishing an effective youth-centered family planning service to avoid teenage pregnancies. Nonetheless, providers preconceived notions of younger women influenced their contraceptive counseling approach and prescribing practices, which might not be in young women’s best interest.

Similarly, providers attitudes toward older women also influenced their contraceptive counseling approach and prescribing practices. Many reported that women over the age of 40 years old preferred injectables and refused to switch to POC, which was perceived to be a safer contraceptive method for older women. As reported above, while some providers were flexible about continuing injectables, others became frustrated with women who were reluctant to switch to POC, despite receiving education about the perceived possible health risks (such as reduced bone density) associated with the injectable. This resulted in these providers questioning their approach to contraceptive counseling as they felt they failed to persuade older women to switch to a perceived safer method:

… Most [older women] have already come in with the mind set of I am not changing, and I think that is the, the problem that we have. We have so many older women in their 40’s, 50’s, not wanting to change from [injectable progestogen] to [progestogen only OC] which is a safer method for their age … they say no, no sister I will maybe consider it at the next time but today, give me my family planning. So, they’re very adamant like I don’t know, if our approach is wrong or I really don’t know. (PN, 4 years)

In summary, despite providers voicing they promoted women’s empowerment to choose their preferred method, options were limited due to their assessment of contraindications to specific methods. Consequently, women’s contraceptive preferences were not always be prioritized, and method choices needed negotiation.
“Every woman is different”: Factors influencing prescribing practices

Providers identified specific factors they considered when prescribing suitable contraceptive methods. These were women’s clinical history, minimizing unwanted side effects and women’s preferred bleeding patterns.

Clinical history

Providers identified women’s clinical history as being the main factor they prioritized when prescribing contraception. This included asking women about their chronic illness history, current medication use and HIV status. One PN with 23 years’ experience avoided prescribing OC for women using multiple chronic medications because “adding another pill” added to their oral medication burden. A few avoided the implant for HIV-infected women due to contraindications with one commonly prescribed antiretroviral drug at the time, efavirenz, which reduced the effectiveness of the implant, and rather prescribed injectables for these women. They also removed implants from HIV-infected women. Many found the changing guidelines that recommend adding condoms for HIV-infected women using implants, confusing and unrealistic, as they maintained that HIV-infected women were not compliant with condoms. Consequently, as previously highlighted, providers perform a balancing act by drawing on clinical guidelines, professional experience and their own clinical judgment for each individual woman’s specific circumstances.

Minimizing side-effects

Many highlighted that women often requested specific methods based on recommendations by female friends and family members. They noted that women struggled to understand the differing side effects experienced by women using the same method. They emphasized that “every woman is different” and that it was challenging to predict the physical effects of a prescribed hormonal contraceptive method:

But for family planning, there’s hormones involved and not everybody’s hormone levels are the same and not everybody’s mood swings are the same – you may have moods, I don’t have moods; you may have heavy bleeding – I don’t have heavy bleeding. Even though we are both on contraception... (PN, 23 years)

Consequently, many strongly emphasized the need to provide health education, particularly focusing on possible side effects of methods. Education on side effects was important as providers considered this was the main reason women discontinued contraception:

Because if you are not given the proper information when you start ... we have a lot of people here who start on the injection and then they just don’t come again and then you find out they started bleeding ... some people get a period, others don’t. Some people gain weight, others stay the same. Some people have, most people have irregular periods for the first 4 to 6 months, but we can treat that until your body is accustomed to it”. (PN, 33 years)

Bleeding pattern preferences

Across all interviews, irregular and unwanted bleeding was seen as the main side effect for method discontinuation. Consequently, providers often asked women about their preferred bleeding pattern, as many requested specific contraceptive methods based on preferences, such as no bleeding or bleeding patterns that were “regular”, mimicking a regular menstrual period cycle. For example, one PN thought the primary motivation for many women requesting injectables was to avoid bleeding, and family planning was secondary to this:

And patients who don’t want a period ... That’s why most of them are on it, not because they are sexually active – because of her period ... they are the ones [that say] ‘Sister, I don’t want a period” because that’s what they tell me. But it’s a family planning method. ‘Yeah sister, and that as well, but I don’t want a period’. (PN, 5 years)

Another important factor reported was access to sanitary products, which were usually purchased by the parents of younger women. Providers reported that women were often concerned that reduced or excessive bleeding, resulting in use of sanitary products less or more frequently, may cause their parents to become suspicious that they were using contraception. Furthermore, one provider highlighted a woman who preferred no bleeding considered the injectable to be more economical because it was “free” and sanitary pads were not affordable.

Health system challenges’ influence on contraceptive delivery practices

Many providers experienced health systems related challenges which affected their ability to provide comprehensive contraceptive services. This included contraceptive stock outs and limited counseling time.

Contraceptive stock-outs

Despite providers wanting to provide women with information on all the contraceptive methods available and
their side effects, as well as exploring women’s preferences and needs, they felt this was mostly not possible. They highlighted challenges that impacted on service provision and might compromise women’s contraceptive compliance. For example, contraceptive stockouts were repeatedly reported as a significant challenge, which limited women’s ability to choose their preferred method. This resulted in forcing women using a method they did not choose and resistance to the alternatives. Occasionally, stockouts resulted in some women not returning for their follow-up appointment:

Yes and there was a time that ... the two-month injection was out of stock for maybe 2 to 3 months, then the client must be forced to take something else and some of them stayed away. There was also a time that the [oral contraception] was out of stock now for 3 months. So, it was also not nice because now the lady must go onto the injectable and some of them decided, no they rather go [and] buy it or they [planned] to come back whenever”. (PN, 11 years)

Limited counseling time

A common challenge was insufficient time to provide women with counseling, particularly at facilities that provided contraceptive services to large numbers of employed women. Working women usually attended clinics during lunch breaks or before work. Consequently, many providers had little time for counseling despite clinics using an appointment-based system which facilitated spacing consultations:

They get here, sister I did not come for this I literally have to be back at in, like 15 min … they come in their lunch time. So, when you want to sit with them and they … already made up their mind – so you just give them what they came for and then they leave … give them condoms, try and give the message … it is difficult. (PN, 4 years)

Furthermore, at some facilities, there was pressure to work more quickly due to staff being “one-stop shops” and the provision of a broad range of health services. Providers remarked on the pressure and feasibility of providing services to a targeted number of patients. They believed this would limit their ability to provide comprehensive contraceptive counseling

Exactly and also even with our patients … if I had to say … am I spending the adequate amount of time on counseling of, or helping patients or client – no. Because as, as much as you want to, like you want to help, like that patient can only take that much at that time (PN, 4 years)

Discussion

This study provides key insights into primary care providers’ approaches to contraception and their experiences when delivering contraceptive services in Cape Town, SA. Our data suggests that providers’ knowledge and attitudes influence the delivery of contraceptive counseling and prescribing practices, with no differences between facilities. Furthermore, despite providers across all five facilities displaying positive attitudes that prioritized women’s contraceptive needs and desires, this study suggests that underlying factors, such as health system challenges, provider knowledge and perceptions as well as and women’s bleeding preferences, influence how providers are delivering this service.

Overall, in-service SRH training was important, ensuring healthcare providers felt confident to provide effective contraceptive services. Inadequate knowledge and training affected providers’ confidence when prescribing contraceptives and was a barrier to providing effective services (27, 30–33). In a recent South African study, providers reported that nurses required more specialized family training to address gaps in providing accurate information to women during contraceptive counseling (34). Studies across Africa have highlighted that in-service training could assist in mitigating provider bias (22, 35–37). Additionally, as was found elsewhere (28, 38), clinical training promoted trainees’ provision of IUDs. Thus, despite local policy promoting the availability and accessibility of the IUD, without training in the promotion and insertion of the IUD, this might not be unachievable. However, other studies found differing results with regards to the impact of training; training had no effect (39), or it had a limited impact on some providers recommendations (35). It has been argued that training focusing exclusively on contraceptive safety is insufficient to mitigate against providers imposing restrictions on specific contraceptive methods (20). A key lesson that emerged during the introduction of the contraceptive implant in SA was the importance of providing high quality training (40). In this study, providers praised the in-service SRH training due to its depth and use of real-world scenarios in comparison to prior training they received. It also facilitated providers to reflect critically during assessments to determine the appropriateness of a specific contraceptive method which is both suitable and preferable for women. Consequently, the role of SRH training and how it impacts on providers prescribing practices requires further attention.

Providers also used clinical guidelines to assist with their clinical judgement. They considered multiple factors incorporated into decision trees to assess if women were medically suitable for their preferred contraceptive method. However, as was found in this study, providers may limit
women’s contraceptive choices regardless of available clinical and national guidelines (20). Furthermore, guidelines that promote a one-size-fits-all approach to contraceptive counseling may limit providers’ autonomy and overlook the individual needs of women (41–43). Providers with negative attitudes toward algorithmic guidelines may rely on personal judgment, which could restrict women’s access to a suitable contraceptive method, a common finding in studies related to the IUD (28). This study highlights the importance of accurate guidelines being clearly communicated to providers, particularly where contraindications to specific methods are present (40). These must speak to local experience. For example, as found elsewhere in SA (21), providers knew that the implant reduced contraceptive efficacy amongst HIV-infected women also using efavirenz. However, changing guidelines—to add condoms for these women (44)—was not seen as viable and created confusion amongst staff, resulting in them promoting implant removal and alternative methods. Providers did not report having avenues to address the prescribing dilemmas they experienced. These included issues such as the implants for HIV-infected women, and how to manage older women who insist on receiving injectables. Routine meetings usually discuss operational issues, staff and facility performance and targets. Forums and in-service training for staff to address common clinical dilemmas faced could both improve provider confidence, the health education they provide and ensure that women receive appropriate contraceptives of their choice.

Central to their professional identity, providers saw themselves as enablers of women’s reproductive health decision-making by providing accurate information to guide their decisions, including method side effects. However, other SA studies conducted among women contraceptive users, found they often receive little to no information on side effects (17, 18). This mismatch could be explained by the constraints experienced by providers. They highlighted that they frequently experienced stock-outs which limited available methods. In addition, they were often unable to provide in-depth contraceptive counseling due to time constraints, imposed by both women and their own workloads. Irrespective, providing accurate information is essential to increase women’s involvement in contraceptive decision-making and to promote the correct and consistent use of their preferred contraceptive method (45). In the United States, emerging research on contraception has focused on shared decision-making (46–48). This involves the provider facilitating the process toward agreement on an appropriate contraceptive method—providing accurate information, addressing misconceptions and helping women identify the suitability of the methods available, consistent with their contraceptive preferences (46).

In our study, providers engaged with women about their bleeding preferences when selecting a contraceptive method. This accords with findings from multi-country studies in Europe, North America and Latin America, that suggested bleeding preferences may influence contraception choices, where bleeding negatively impacted on women’s daily activities (49, 50). Some women prefer a predictable bleeding whereas others prefer to reduce or eliminate bleeding and use hormonal contraception to achieve this (49, 50). Although information is very limited on women’s bleeding pattern preferences in Africa (51), a scoping review highlighted that using contraception to achieve amenorrhea was more preferable in Europe, North America and Latin America compared to African countries. A few African studies indicate that some women perceive amenorrhea negatively and consider menstruation to be an indicator of fertility and wellbeing, which could influence contraceptive decision-making (51, 52). As was found in our study, bleeding preferences may differ across various populations due to individual, physical and social influences (51, 53), with some women wanting to avoid menstruation due to unaffordable sanitary products whereas younger women preferred a regular bleeding pattern to avoid parental suspicion of their use of contraception. Thus, providers in this study facilitated decision-making that aligned with women’s bleeding preferences, which was influenced by their lived realities.

Providers displayed pre-existing attitudes that may have influenced contraceptive prescribing to younger and older women. As was found in other SA studies investigating the attitudes of providers toward providing contraceptive services to adolescent and young women (25, 26, 53, 54), our study findings highlight that when prescribing contraception to adolescents, providers continue to use stereotypes and value-based judgements, such as adolescents being irresponsible (25, 54, 55). Additionally, we found that providers had a negative attitude toward prescribing injectables to older women who request to use this method. Providers believed that injectable use might result in reduced bone density in older women and thus recommended women switch to a perceived safer method. The research predated the 2019 SA guidelines and contradicted the WHO guidelines which state that women over 40 can safely use injectables unless they have contraindications such as are smokers or are migraineurs (16, 56). This highlights the importance of timeous communication to providers about guideline changes, and discussion. While the clinical implications for the risk due to reduced bone density amongst older women using DMPA remains uncertain (29), this finding highlights that lack of accurate knowledge may bias providers against providing women their preferred contraceptive method.

As this study was confined to public primary health care facilities in urban Cape Town, SA, findings may not be generalizable to rural areas. However, facilities selected served a diverse population in terms of age, socio economic status and county of origin, and thus may be relevant for providers working in primary care facilities in the public sector elsewhere.
in SA. Although providers may have provided socially desirable responses, we aimed to mitigate this by using vignettes and follow-up questions, which explored providers' application of clinical judgment to motivate a specific contraceptive method and, the agreement with women's requests for a specific method.

The WHO emphasizes health care providers' critical role in ensuring women's right to accessing high quality contraceptive services (57). Achieving this, requires providers to be trained to prescribe and administer a range of contraceptive methods and deliver evidence-based information to ensure women make informed decisions about methods. Providers should enable women selecting a suitable method, without judgement, supporting their approval or refusal of suggested contraceptive methods. This study demonstrates that providers in a busy, pressurized work setting are committed to promoting contraceptive services that uphold women's preferences, despite their knowledge and attitudes influencing their counseling and prescribing practices. Ensuring that providers receive timeous, standardized evidence-based SRH training can support the provision of high-quality services, as prescribing practices varied and were based on the level of inservice training received. Outdated or inadequate knowledge influenced providers attitudes toward younger and older women and can be addressed by instituting avenues to resolve prescribing dilemmas. Additionally, shifting contraceptive counseling to focus on shared decision-making may promote providers' respect for women's autonomy during decision-making about method selection (48). However, this is an emergent area of research in family planning in other contexts such as the United States and requires further exploration within the SA and other LMIC contexts.

Data availability statement

The datasets presented in this article are not readily available because informants were assured of confidentiality and anonymity, and consent was not obtained for sharing transcripts. Further enquiries can be directed to kulthum.fataar@uct.ac.za.

Ethics statement

The studies involving human participants were reviewed and approved by University of Cape Town, Faculty of Health Sciences, Human Research Ethics Committee. The patients/participants provided their written informed consent to participate in this study.

Author contributions

KF conceptualized the study, wrote the study proposal, conducted the fieldwork and data analysis, and drafted the article, as part of her work for a Master of Public Health. VZ fund raised for the study, reviewed the proposal, and contributed to article writing. JH gave input for and supervised the study proposal writing, fieldwork, and writing of the article. All authors contributed to the article and approved the submitted version.

Funding

This study was funded by the Cape Higher Education Consortium (CHEC), in South Africa.

Acknowledgments

The authors gratefully acknowledge the support of Cape Town City Health Department, the managers who facilitated access to the study participants and to participants who gave generously their time and perspectives. The content of this manuscript, submitted as a thesis for the Master of Public Health of KF, has previously appeared online and is listed in the reference list below (58).

Conflict of interest

The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

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Supplementary material

The Supplementary Material for this article can be found online at: https://www.frontiersin.org/articles/10.3389/fgwh.2022.917881/full#supplementary-material
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