Young Women’s Access to and Use of Contraceptives: The Role of Providers’ Restrictions in Urban Senegal

By Estelle M. Sidze, Solène Lardoux, Ilene S. Speizer, Cheikh M. Faye, Michael M. Mutua and Fanding Badji

CONTEXT: Contraceptive prevalence is very low in Senegal, particularly among young women. Greater knowledge is needed about the barriers young women face to using contraceptives, including barriers imposed by health providers.

METHODS: Survey data collected in 2011 for the evaluation of the Urban Reproductive Health Initiative in Senegal were used to examine contraceptive use, method mix, unmet need and method sources among urban women aged 15–29 who were either currently married or unmarried but sexually active. Data from a sample of family planning providers were used to examine the prevalence of contraceptive eligibility restrictions based on age and marital status, and differences in such restrictions by method, facility type and provider characteristics.

RESULTS: Modern contraceptive prevalence was 20% among young married women and 27% among young sexually active unmarried women; the levels of unmet need for contraception—mostly for spacing—were 19% and 11%, respectively. Providers were most likely to set minimum age restrictions for the pill and the injectable—two of the methods most often used by young women in urban Senegal. The median minimum age for contraceptive provision was typically 18. Restrictions based on marital status were less common than those based on age.

CONCLUSIONS: Training and education programs for health providers should aim to remove unnecessary barriers to contraceptive access.


Family planning services were introduced in Senegal in the early 1960s at the private Blue Cross Clinic in Dakar, but it was only in 1981 that the government developed an administrative structure capable of directing a national program and began to provide information, education and counseling support and family planning services. Wider provision of family planning prior to 1981 was prohibited by a law passed during the 1920s, when Senegal was a French colony, and repealed only in 1980. In 1988, a national population policy was issued, giving official and political approval of the family planning program and paving the way for progress in family planning in Senegal.

But despite changes in Senegal’s legal and regulatory environment in regard to family planning, contraceptive prevalence has been slow to increase. According to the 2010–2011 Senegalese Demographic and Health Survey (DHS), only 12% of currently married women used a modern contraceptive method, compared with 8% in 1997 and 10% in 2005. This slow change can be attributed to low demand for contraceptives, as well as to supply-side barriers. For instance, most African countries have been providing oral contraceptives and injectables through community-based distribution programs for decades; however, Senegal pilot-tested such a program only in 2012–2013, a delay caused by illogical restrictions on which types of providers can supply oral contraceptives and injectables.

Nearly 30% of currently married Senegalese women have an unmet need for family planning—that is, they want to either postpone their next birth for at least two years or stop childbearing altogether, but are not currently using a contraceptive method; the current level is slightly lower than in 2005 (32%). The level of unmet need in Senegal—especially for spacing (29% among currently married women)—is higher than in other West African countries, such as Burkina Faso, Ghana, Mali and Nigeria.

Factors contributing to unmet need for family planning in developing countries include lack of contraceptive knowledge, poor quality of and access to family planning services; method cost; women’s concerns about side effects; and women’s, husbands’ or family members’ objections to contraceptive use. According to a descriptive analysis of Urban Reproductive Health Initiative data, women’s beliefs and misconceptions about contraceptives, husbands’ objections to contraceptive use and the poor quality of family planning services are the most frequent reasons deterring women in urban Senegal from practicing contraception.

Youth constitute a key target in reproductive health strategies and, in Senegal, appear to have particularly low levels of contraceptive use. For example, in 2010–2011, only 2% of all 15–19-year-olds and 6% of all 20–24-year-olds reported using a modern method; the proportions among currently married women in those age-groups were slightly higher (5% and 8%, respectively). Access to reproductive health services remains an issue for young women.
and men because of cultural, medical and financial barriers.7–9 For example, although there are no legal restrictions to providing oral contraceptive pills to unmarried young women, results from simulated client studies suggest that providers are reluctant to do so and tend to promote abstinence instead.7,9 Consequences among young women of lack of access to reproductive health services are increased risk of unplanned pregnancy; unsafe abortion; STIs, including HIV; and early school dropout due to pregnancy.7

Previous research has stressed the importance of helping young people in developing countries to be effective contraceptives users.10–12 As the medical mediators between clients’ knowledge and fears and their use of contraceptives, health providers are also key to ensuring access to, and adoption and continued use of, contraceptive methods among youth. Health providers’ knowledge and training influence access to specific contraceptives.13,14 In Tanzania, Speizer et al. demonstrated examples of obstacles that prevent women from using modern contraceptives, such as inappropriate contraindications, eligibility restrictions, unnecessary process hurdles, over specialization of providers, bias and unnecessary regulations.13

This study examines the role family planning providers’ restrictions play in young women’s access to and use of modern contraceptives in urban Senegal. Norms and policies have been developed over the years in Senegal to ensure that all individuals receive family planning services without any discrimination based on age, sex, marital status, ethnic group or religious affiliation.15–18 With regard to health services for young people in particular, the latest Senegalese national health development plan (2009–2018) specifies that health professionals should be able to counsel adolescents on pregnancy prevention, as well as on prevention of and voluntary testing for STIs.17 These responsibilities are clearly defined in training curricula for doctors, nurses, midwives and social workers, and are to be carried out without any stigmatization. Yet, very few studies have used provider data to assess the prevalence of providers’ restrictions for young people.13,14 We do so here by facility type, method type, and providers’ gender, age and specialization.

DATA AND METHODS

The study draws on data on women and health providers collected by the Measurement, Learning and Evaluation (MLE) project in Senegal as part of the evaluation of the Senegal Urban Reproductive Initiative, a five-year project (2010–2015) financed by the Bill & Melinda Gates Foundation. The initiative’s goal is to implement specific programs as part of a pilot project to show how using innovative approaches based on high-quality health care delivery in the public and private sectors—such as demand creation and advocacy efforts—can significantly increase the use of modern family planning methods in urban francophone Africa. The MLE project received ethical approval from the National Ethics Committee of Senegal and the institutional review board of the University of North Caro-

lina at Chapel Hill. Study participants were requested to sign a consent form and had the right to withdraw at any time, without reprisal.

Survey of Women

As part of the MLE project, a survey of women was conducted in 2011 using a two-stage stratified area sampling procedure to obtain a representative sample of women aged 15–49 in six urban sites (Dakar, Guédiawaye, Kaolack, Mbaa, Mbou and Pikine). In the first stage, 32–64 primary sampling units were selected with probability proportional to population size of each site. In the second stage, a random sample of 21 households was chosen from each selected primary sampling unit, and all women aged 15–49 in those households who were identified as habitual residents or visitors were eligible for individual interviews. Respondents answered questions about their social and demographic characteristics, marital and reproductive histories, fertility preferences, awareness and use of contraceptives, sources of contraceptives, spousal communication about contraceptive use and fertility preferences, migration history and exposure to media. Information about women’s unmet need for spacing and limiting births was also collected. Women were considered to have an unmet need for spacing if they reported that their last or current pregnancy was mistimed or that they were fertile, were not practicing contraception and wanted to wait at least two years before having their next child. Women were considered to have an unmet need for limiting if they reported that their last or current pregnancy was unwanted or that they were fertile, were not practicing contraception and did not want any more children. Currently pregnant women who became pregnant while using a contraceptive method were excluded from determinations of unmet need.

Overall, 9,614 women were successfully interviewed; the response rate was 89%.19 Sample weights were applied to adjust for the sample size at the different sites and for nonresponse. For our analyses, we selected two weighted samples of young women aged 15–29. One sample consisted of the 2,340 young women who reported being currently married; the other sample consisted of the 237 who reported having initiated sex, having been sexually active during the 12 months preceding the survey and not being married to or living with a man at the time of the survey. Descriptive analyses of young women’s modern contraceptive use, method choice and method source were conducted using the svy command in Stata. Confidence intervals were calculated to show the level of difference or similarity between comparison proportions, and standard errors were adjusted for clustering. Analyses were performed separately for the two samples to account for the differences in contraceptive demand between the two groups.

Health Facility Survey

The MLE project also collected data in 2011 from health facilities that supplied reproductive health services and from providers who worked in such facilities. For the sampling
procedure, a list of operational health facilities providing reproductive health services in survey sites was obtained from the Ministry of Health. This list was updated using information from Dakar Medical Region, Mbour Health District, Kaolack Health District, National Health Information System and IntraHealth, and included 269 health facilities. Some 205 (76%) were successfully located and surveyed, of which 153 were public facilities (eight hospitals, 22 health centers, 111 health posts and 12 other public facilities such as dispensaries and community health centers) and 52 were private (27 hospitals or clinics, 10 faith-based facilities, five nongovernmental organization clinics and 10 other private providers).

For each facility, 2–4 providers involved in the provision of reproductive health services (i.e., doctors, nurses, trained midwives, maternal and child health aides, medical assistants and auxiliary staff) were randomly selected for interview from a list of active, permanent facility personnel on duty when interviewers visited. The number of providers selected depended on how many were involved in the provision of reproductive health services at the facility. A total of 637 providers were interviewed: 516 from public facilities (32 from hospitals, 81 from health centers, 364 from health posts and 39 from other public facilities) and 121 providers from private facilities.

All selected providers answered questions about the reproductive services offered at their facility, as well as their demographic characteristics and medical specialization. Providers were asked about the two restrictions most likely to affect young women’s access to contraceptive methods: minimum age and marital status. For selected modern contraceptive methods (the pill, the injectable, the implant, condoms and emergency contraception), providers were asked, “What is the minimum age you would offer the method to anyone?” and “Would you offer this method to an unmarried person?” Providers who did not report a minimum age were considered as not restricting provision of contraceptive methods by age. Providers who reported that they would not offer a given method to an unmarried person were considered to restrict provision of that method based on marital status.

For each of the selected methods, we divided the number of providers applying minimal age and marital status restrictions by the total number of providers who reported offering the method at their facility at the time of interview. We present these estimated percentages separately for public and private health facilities; although staff at both types of facilities receive the same training and are required to follow the same national guidelines for family planning service delivery, differences in the prevalence of restrictions could be observed due to differences in monitoring systems. In addition, we computed median ages below which providers would not offer a specific method, as well as interquartile ranges—a measure of dispersion computed as the difference between the 75th percentile (Q3) and the 25th percentile (Q1).

Finally, we conducted chi-square analyses to examine the levels of minimum age and marital status restrictions by providers’ gender, age and specialization. We restrict the results to the three methods found to be most commonly used by young women in urban Senegal: the pill, the injectable and condoms.

### RESULTS

#### Use and Sources of Contraceptives

The proportion of young urban Senegalese women who reported using a modern contraceptive method was 20% among those currently married and 27% among those who were unmarried and sexually active (Table 1). The greatest proportion of the married group relied on the injectable (43%), followed by the pill (33%) and the condom (15%); this pattern was consistent across age-groups. In contrast, the greatest proportion of the sexually active unmarried group relied on the condom (56%), followed by the injectable (21%) and the pill (14%). Overall, 19% of married women had an unmet need for contraception, almost all for spacing; the highest level of unmet need for spacing was among 20–24-year-olds (20%). Among sexu-

### TABLE 1. Among married and sexually active unmarried women aged 15–29, percentage currently using a modern contraceptive method; percentage distribution of users % current use

<table>
<thead>
<tr>
<th>Marital status and age</th>
<th>% using modern method</th>
<th>% distribution of users</th>
<th>% unmet need</th>
<th>Urban Reproductive Health Initiative, Senegal, 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Pill</td>
<td>Injectable</td>
<td>Implant</td>
</tr>
<tr>
<td>All (N=2,340)</td>
<td>19.7</td>
<td></td>
<td>32.7</td>
<td>42.5</td>
</tr>
<tr>
<td>15–19 (N=1,756)</td>
<td>19.6</td>
<td></td>
<td>31.3</td>
<td>37.4</td>
</tr>
<tr>
<td></td>
<td>(18.0–21.6)</td>
<td></td>
<td>(18.0–23.6)</td>
<td>(36.7–47.5)</td>
</tr>
<tr>
<td>20–24 (N=52)</td>
<td>19.7</td>
<td></td>
<td>30.5</td>
<td>40.7</td>
</tr>
<tr>
<td></td>
<td>(5.1–11.1)</td>
<td></td>
<td>(14.3–53.5)</td>
<td>(23.6–60.4)</td>
</tr>
<tr>
<td>25–29 (N=191)</td>
<td>21.6</td>
<td></td>
<td>36.3</td>
<td>40.9</td>
</tr>
<tr>
<td></td>
<td>(19.1–24.5)</td>
<td></td>
<td>(20.9–43.3)</td>
<td>(34.2–48.0)</td>
</tr>
<tr>
<td>Unmarried (N=237)</td>
<td>27.1</td>
<td></td>
<td>14.1</td>
<td>20.8</td>
</tr>
<tr>
<td></td>
<td>(20.7–34.7)</td>
<td></td>
<td>(6.6–27.4)</td>
<td>(11.9–33.8)</td>
</tr>
</tbody>
</table>

Notes: Figures in parentheses are 95% confidence intervals. na=not applicable.
ally active unmarried women, the level of unmet need for contraception—all for spacing—was 11%.

Sixty-seven percent of all young women currently using a modern method of contraception reported obtaining that method from the public sector (2% from hospitals, 17% from health centers, 43% from health posts and 4% from other public health facilities; Table 2). Health posts were the facility type most commonly cited by women as their public source for the pill (39%) and the injectable (64%); health centers were the most common public source for the implant (60%). Twenty-six percent of young women obtained their contraceptive method from the private sector. Young women mostly turned to private-sector health facilities for condoms (61%); however, 34% of condom users obtained the method from NGOs or other facilities.

### Minimum Age and Marital Status Restrictions

Public-sector providers commonly apply a minimum age restriction for provision of contraceptives, including the pill and the injectable—two of the most commonly used methods among young women (Table 3). Overall, 57% of public-sector providers reported that they would not provide a client below a certain age with the pill; that proportion was 59% in hospitals, 47% in health centers and in other public facilities, and 46% in health posts. For the injectable, 44% of public-sector providers applied a minimum age restriction; that proportion was 52% in hospitals, 43% in health centers, 40% in health posts and 37% in other public facilities. In addition, 45% of public-sector providers applied an age restriction for the implant, 25% for the condom and 24% for emergency contraception. In private facilities, the proportion of providers who required

### Table 2. Percentage distribution (and 95% confidence intervals) of currently married and sexually active unmarried young women using a modern contraceptive method, by source of most recent method, according to method

<table>
<thead>
<tr>
<th>Source</th>
<th>All (N=536)</th>
<th>Pill (N=166)</th>
<th>Injectable (N=239)</th>
<th>Implant (N=36)</th>
<th>Condom (N=77)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public</td>
<td>66.5</td>
<td>66.1 (57.3–73.9)</td>
<td>83.8 (76.0–89.4)</td>
<td>95.4 (83.3–98.9)</td>
<td>5.2 (1.8–13.7)</td>
</tr>
<tr>
<td>Hospital</td>
<td>2.1</td>
<td>2.3 (0.8–6.2)</td>
<td>1.5 (0.6–3.8)</td>
<td>10.4 (4.4–22.5)</td>
<td>0.0</td>
</tr>
<tr>
<td>Health center</td>
<td>17.2</td>
<td>19.3 (13.1–27.7)</td>
<td>13.3 (9.2–18.9)</td>
<td>60.1 (41.1–76.6)</td>
<td>1.2 (0.2–8.1)</td>
</tr>
<tr>
<td>Health post</td>
<td>42.8</td>
<td>39.3 (30.9–48.4)</td>
<td>63.7 (55.9–70.9)</td>
<td>24.1 (11.8–43.0)</td>
<td>3.7 (1.0–12.5)</td>
</tr>
<tr>
<td>Other public†</td>
<td>4.4</td>
<td>5.2 (2.3–11.2)</td>
<td>5.3 (2.9–9.6)</td>
<td>0.8 (0.1–5.8)</td>
<td>0.2 (0.0–1.7)</td>
</tr>
<tr>
<td>Private</td>
<td>26.1</td>
<td>29.9 (22.5–38.5)</td>
<td>14.6 (9.2–22.5)</td>
<td>0.0</td>
<td>61.1 (46.7–73.8)</td>
</tr>
<tr>
<td>Hospital/clinic</td>
<td>8.2</td>
<td>9.1 (4.9–16.2)</td>
<td>11.3 (6.4–19.3)</td>
<td>0.0</td>
<td>1.0 (0.1–6.7)</td>
</tr>
<tr>
<td>Other private</td>
<td>17.9</td>
<td>20.8 (14.8–28.5)</td>
<td>3.3 (1.5–7.2)</td>
<td>0.0</td>
<td>60.1 (45.8–72.9)</td>
</tr>
<tr>
<td>NGO/other‡</td>
<td>7.4</td>
<td>4.0 (1.6–9.7)</td>
<td>1.6 (0.6–4.1)</td>
<td>4.6 (1.1–16.7)</td>
<td>33.7 (21.5–48.5)</td>
</tr>
<tr>
<td>Total</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
</tr>
</tbody>
</table>

†Includes dispensaries and community health centers. ‡Includes workplace clinics, youth centers, voluntary counseling and testing centers, shops, markets and peer educators. Notes: NGO=nongovernmental organization. Data for the IUD and other methods are not presented because of small sample sizes.

### Table 3. Percentage of family planning providers who apply a minimum age or marital status restriction to contraceptive provision, by method; and median minimum age restriction (and interquartile range), by method—all according to facility type

<table>
<thead>
<tr>
<th>Barrier/method</th>
<th>Public</th>
<th>Private</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum age</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pill</td>
<td>57.0</td>
<td>46.9</td>
</tr>
<tr>
<td>Injectable</td>
<td>43.6</td>
<td>36.7</td>
</tr>
<tr>
<td>Implant</td>
<td>45.2</td>
<td>37.5</td>
</tr>
<tr>
<td>Condoms</td>
<td>24.5</td>
<td>25.7</td>
</tr>
<tr>
<td>EC</td>
<td>24.2</td>
<td>34.8</td>
</tr>
<tr>
<td>Median minimum age</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pill</td>
<td>17 (3)</td>
<td>15 (2)</td>
</tr>
<tr>
<td>Injectable</td>
<td>18 (5)</td>
<td>18 (2)</td>
</tr>
<tr>
<td>Implant</td>
<td>18 (7)</td>
<td>18 (2)</td>
</tr>
<tr>
<td>Condoms</td>
<td>18 (3)</td>
<td>18 (2)</td>
</tr>
<tr>
<td>EC</td>
<td>18 (3)</td>
<td>18 (2)</td>
</tr>
<tr>
<td>Marital status</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pill</td>
<td>12.2</td>
<td>23.1</td>
</tr>
<tr>
<td>Injectable</td>
<td>13.6</td>
<td>17.9</td>
</tr>
<tr>
<td>Implant</td>
<td>13.6</td>
<td>12.8</td>
</tr>
<tr>
<td>Condoms</td>
<td>8.3</td>
<td>12.8</td>
</tr>
<tr>
<td>EC</td>
<td>8.7</td>
<td>10.3</td>
</tr>
</tbody>
</table>

†Includes dispensaries and community health centers. Note: EC=emergency contraception.
Clients to be above a certain age to receive a contraceptive method was 49% for the pill, 41% for the injectable, 38% for the implant, 20% for the condom and 21% for emergency contraception.

Overall, the median minimum age required by public providers who reported having an age restriction for contraceptives was 17 for the pill and 18 for the injectable, the implant, and emergency contraception; the median minimum age was as high as 20 for provision of the implant in public hospitals and health centers. In the private sector, the median minimum age was 18 for all methods studied.

In general, restrictions on contraceptive provision because of marital status were less common than those because of age. Overall, 12–14% of providers in public health facilities reported requiring that a woman be married to receive the pill, the injectable or the implant, and 8–9% applied a marital status restriction for the condom and emergency contraception. In private health facilities, 21–30% of providers reported refusing to offer unmarried women the pill, the injectable, the implant or emergency contraception; 12% imposed a marital status restriction for condoms.

**Restrictions by Providers’ Characteristics**

Contraceptive restrictions varied among providers depending on their characteristics. For instance, among public-sector providers, a greater proportion of men than of women reported applying a minimum age restriction for provision of the injectable (54% vs. 39%; Table 4), male providers at public facilities were also more likely than their female peers to restrict young clients’ access to at least one of the three methods studied (58% vs. 45%). In the private sector, male providers were generally more likely than female providers to apply minimum age restrictions to contraceptive method provision, although no significant differences by gender were found. It is important to note that few public- or private-sector providers of the pill, the injectable and condoms in the public sector were male.

**TABLE 4. Percentage of family planning providers who apply a minimum age restriction to contraceptive provision, by providers’ gender, age and type, according to health care sector and method**

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Public</th>
<th>Private</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No. of providers</td>
<td>Pill</td>
</tr>
<tr>
<td><strong>Sex</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>86</td>
<td>65.2</td>
</tr>
<tr>
<td>Female</td>
<td>430</td>
<td>44.0</td>
</tr>
<tr>
<td><strong>Age</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;30</td>
<td>66</td>
<td>47.5</td>
</tr>
<tr>
<td>30–39</td>
<td>153</td>
<td>44.2</td>
</tr>
<tr>
<td>≥40</td>
<td>297</td>
<td>48.5</td>
</tr>
<tr>
<td><strong>Provider type</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doctor</td>
<td>13</td>
<td>33.3**</td>
</tr>
<tr>
<td>Nurse</td>
<td>131</td>
<td>62.0**</td>
</tr>
<tr>
<td>Midwife/other</td>
<td>372</td>
<td>42.8**</td>
</tr>
</tbody>
</table>

*Differences across subgroups significant at p<.05. **Differences across subgroups significant at p<.01. Notes: Differences assessed using chi-square tests. Few providers of the pill, the injectable and condoms in the public sector were male.

**TABLE 5. Percentage of family planning providers who apply a marital status restriction to contraceptive provision, by providers’ gender, age and type, according to health care sector and method**

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Public</th>
<th>Private</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No. of providers</td>
<td>Pill</td>
</tr>
<tr>
<td><strong>Sex</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>86</td>
<td>9.3</td>
</tr>
<tr>
<td>Female</td>
<td>430</td>
<td>12.8</td>
</tr>
<tr>
<td><strong>Age</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;30</td>
<td>66</td>
<td>4.5*</td>
</tr>
<tr>
<td>30–39</td>
<td>153</td>
<td>9.2*</td>
</tr>
<tr>
<td>≥40</td>
<td>297</td>
<td>15.5*</td>
</tr>
<tr>
<td><strong>Provider type</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doctor</td>
<td>13</td>
<td>7.7</td>
</tr>
<tr>
<td>Nurse</td>
<td>131</td>
<td>14.5</td>
</tr>
<tr>
<td>Midwife/other</td>
<td>372</td>
<td>1.6</td>
</tr>
</tbody>
</table>

*Differences across age-groups significant at p<.05. Notes: Differences assessed using chi-square tests. Few providers of the pill, the injectable and condoms in the public sector were male.
tive method provision were generally consistent across provider age-groups. In regard to provider type, in the public sector, greater proportions of nurses than of other providers reported having a minimum age restriction for the pill (62% vs. 33–43%) or for at least one of the three methods (57% vs. 39–44%); the pattern by provider type in the private sector seemed to follow that seen in the public sector, but no differences were significant.

In our analyses of providers’ restrictions based on marital status, we found only one significant finding: the proportion of public staff who would not provide the pill to unmarried women increased with provider’s age (from 5% among those younger than 30 to 9% among those 30–39 and 16% among those 40 or older, Table 5, page 180). The pattern by age seemed to also apply to provision of the injectable and condoms at public facilities, but was opposite for pill and injectable provision at private facilities; however, the differences were not significant. In general, female providers were slightly more likely than male providers to require clients to be married to receive contraceptives; female providers in private facilities were generally more restrictive than their counterparts in public facilities. In regard to provider type, in the public sector, restrictions by marital status generally were more common among nurses than among other providers; in the private sector, midwives appeared to be the provider type most likely to restrict unmarried women’s access to contraceptives.

Further analyses (not shown) indicated no correlation between minimum age restrictions and parity restrictions.

DISCUSSION

As unmet need remains high in Senegal, family planning programs face challenges in removing barriers to family planning access and use. Young people have particularly low levels of contraceptive use, despite being knowledgeable of contraceptive methods. In this study, we found that in urban Senegal, only about one-fifth of married young women and one-fourth of unmarried, sexually active young women reported current use of a modern contraceptive method. In addition, one in five married young women and one in 10 unmarried, sexually active young women had an unmet need for contraception. These levels of contraceptive use and unmet need suggest a need for improvement in family planning services for youth in urban Senegal.

An important goal of this study was to investigate the role providers’ restrictions play in young women’s access to contraceptives. Providers are key to ensuring young people’s access to, and adoption and continued use of, contraceptive methods; thus, provider biases and restrictions may hamper young people’s access and use.

According to our findings, providers in Senegal seem generally more likely to impose restrictions based on age than on marital status; this pattern has been reported in previous research. More than half of providers in the public sector and almost half of those in the private sector reported applying a minimum age for provision of the pill. Minimum age restrictions for the pill and the injectable are particularly troubling, because these are the two methods most used by young married women. Minimum age restrictions for emergency contraception and the condom were relatively less common in both the private and the public sectors; however, restricting young women’s access to these methods is still problematic. Emergency contraception is an effective way of preventing unwanted pregnancies among young women after unprotected sex, and the condom—the method used by the greatest proportion of unmarried, sexually active young women—is the only method that prevents against STIs (including HIV) as well as pregnancy.

On average, providers in both the public and the private sectors required clients to be at least 18 for most of the contraceptive methods studied, which presents a major barrier to contraceptive access not only for young adolescents, but for most teenagers and some young adults as well. It does not appear that providers consider parity when making decisions to restrict methods by minimum age.

We found that male providers—particularly in the public sector—were more likely than female providers to impose restrictions by minimum age for the pill, the injectable and condoms. Also in the public sector, nurses were more likely than other staff to impose minimum age restrictions for those methods. The context must be considered, however, when interpreting these results. In Senegal, few public providers of these methods are male, and different types of providers play different roles in service provision.

Previous studies have demonstrated that provider restrictions reflect the social norms and values of providers. For example, according to Batieno, the choice of methods providers offer their female patients may perpetuate norms and values of the society. In Senegal, provider-imposed restrictions are most likely a reflection of the country’s long history of restrictive family planning practices and a generally socially conservative environment. Strong norms exist against premarital sexuality, especially for women, and health providers may tend to promote abstinence for young women, while restricting unmarried women’s access to the pill. Providers may also be reluctant to offer contraceptives (including condoms) to young people out of fear that youth might be stigmatized by parents or other community members.

In the provision of family planning services, concerns defined by the state of medical knowledge and scientific advances should prevail over social norms. According to the World Health Organization’s report on medical eligibility criteria, even the medical concerns expressed regarding the use of certain methods must be balanced against the advantages of avoiding unintended pregnancies, particularly when it comes to youth. Clients’ approach to choosing a contraceptive may vary according to individual social issues, such as frequency of intercourse among young adults, for example, as well as the economic activities and educational aspirations of women. In the absence of a clear regulatory framework for service provision to young peo-
ple, health providers may refer to their own perspectives to
determine how and when to offer youth services and meth-
ods. Proper provider training is essential to prevent provid-
ers from limiting the options available for young women. In
addition, family planning programs should organize more
regular follow-up and updates on contraception via forums
and seminars for providers. Health providers currently
may not have enough knowledge about methods, or about
the potential health consequences and side effects of con-
traceptives. In Kenya and Ethiopia, for instance, counsel-
ing on and provision of emergency contraception was posi-
tively associated with providers’ greater level of knowledge
of the method.24 Thus, an increase in provider knowledge
may allow clients better contraceptive access.

Limitations
We must acknowledge our study’s limitations. Data on
providers’ characteristics were limited; thus, multivariate
analyses examining associations between providers’ char-
acteristics and age or marital restrictions were not possible.
Because only 2–4 providers were interviewed per health
facility, the data may not represent all providers at the facil-
ity level; nonetheless, we believe that the data collection
procedure was suitable for our study given that all facil-
ities located in study sites were eligible for inclusion, rather
than a random sample—often used in situation analyses.25
Reported age-heaping occurred in our data on the service
provider minimum age restriction, particularly at age 18
and at all ages with “0” and “5” digits beyond 15 years of
age; this would speak to the quality of data on age restric-
tions reported by service providers. Finally, the women’s
survey data about reasons for nonuse (among women not
using contraceptives) does not fully capture the extent to
which providers’ restrictions could have accounted for the
nonuse.

CONCLUSIONS
Findings from this study suggest several programmatic
recommendations. First, training and education programs
for medical staff in Senegal should aim to reduce unnec-
essary provider-implemented barriers to contraceptive ac-
cess, such as restrictions by age or marital status. All staff
of both public and private facilities should receive train-
ing and education; however, targeted training for male
providers, nurses and older staff may be warranted, given
evidence that those groups may be more likely to apply re-
strictions by age and marital status. Such programs could
contribute to increased access to and use of contraceptives
among young women, lower unmet need and improved
health outcomes in urban Senegal and beyond.

Second, all family planning service delivery protocols
or policies should make clear that young people are eli-
gible for services. Currently, the documents related to the
norms and protocols in Senegal specify no regulatory
restrictions against youth’s access to family planning ser-
dices; however, they also do not include a clear official
statement that adolescents and young people should have
unrestricted access. In the absence of a clear message, pro-
dviders in Senegal can define their restriction criteria based
on their own opinions and values regarding sexuality and
contraception.

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La edad mediana mínima para la provisión de anticonceptivos fue típicamente 18 años. Las restricciones basadas en el estado conyugal fueron menos comunes que aquellas basadas en la edad.

Conclusiones: Los programas de capacitación y educación dirigidos a los proveedores de salud deben procurar la eliminación de barreras innecesarias relacionadas con el acceso a los anticonceptivos.

**RÉSUMÉ**

Contexte: La prévalence contraceptive est très faible au Sénégal, chez les femmes jeunes en particulier. Il convient de mieux cerner les obstacles à la contraception auxquelles les jeunes femmes se trouvent confrontées, y compris ceux imposés par les prestataires de santé.


**Resultats:** La prévalence contraceptive moderne était de 20% parmi les jeunes femmes mariées et de 27% parmi celles non mariées mais sexuellement actives. Les niveaux des besoins non satisfaits en matière de contraception—à des fins d’espace-ment principalement—étaient respectivement de 19% et 11%. Les prestataires étaient le plus susceptibles d’imposer des restrictions d’âge minimum concernant la pilule et l’injectable, deux des méthodes les plus pratiquées par les jeunes femmes du Sénégal urbain. L’âge minimum médian pour l’obtention de la contraception était généralement de 18 ans. Les restrictions basées sur l’état matrimonial étaient moins courantes que celles imposées en fonction de l’âge.

**Conclusions:** Les programmes de formation et d’éducation à l’intention des prestataires de santé doivent chercher à lever les obstacles inutiles à l’accès à la contraception.

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