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Modern Contraception Among Adolescent Girls and Young Women at Pikine Health Center (Dakar, Senegal)

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Introduction

In Senegal, according to the 2013 report of the National Agency of Statistics and Demography (NASD), maternal mortality is estimated at 434 per 100,000 live births. With a fertility rate of 5 children per woman, family planning, a major strategy to reduce maternal and infant mortality, has increased significantly. Indeed, according to the 2014 Continuous Demographic and Health Survey, contraceptive prevalence moved from 12% in 2010-2011 to 20.3% in 2014 [1]. However, unmet need for contraception has increased by 29%. The 2011 Multiple Indicator Cluster Demographic and Health Survey (MIC-DHS) revealed that adolescent girls constituted 22 per cent of all women of childbearing age. They also represent nearly 10% of all female fertility in Senegal. This survey also revealed that for women, 56% had had sexual intercourse before the age of 20 [2]. Sexual activity among adolescents and youngsters is often correlated with risky behaviors that expose them to unwanted pregnancies and their complications. Thus, for adolescents and young people who are already sexually active, the prevention of high-risk pregnancies through family planning is a public health concern to avoid the dramatic consequences associated with unwanted pregnancies. The objective of our survey is to study contraceptive practices among adolescents girls and young women at Pikine Health Center.

Clients and Methods

This was a retrospective, descriptive and analytical study over a 12-month period (January 1 to December 31, 2013) on contraceptive use among adolescents girls and under 25 young women at the maternity ward at Baye Talla Diop Health Center in Pikine. We included all clients under 25 who had received a contraceptive method. We excluded all those who were 25 or more. Data collection was done through the family planning record, which identified socio-demographic characteristics, medical and surgical history, eating habits, clinical examination results, con

traceptive method and side effects. We processed data and analysis with Epi info 3.5 software.

Result

Table 1: Distribution of patients by socio-demographic characteristics.

Socio-Demographic Features	Number (N)	Percentage (%)
Age		
Less than 20 Years	46	20
More than 20 Years	185	80
Marital Status		
Married	203	88
Single	28	12
School Level		
Uneducated	91	39.4
Educated	140	60.6
Primary school level	78	55.8
Secondary school level	58	41.4
Higher study level	4	2.8
Profession		
Housewife	174	75.3
Employee	57	24.7
Parity		
Nulliparous clients	3	6.9
Primiparous clients	105	45.5
Pauciparous clients	71	30.7
Multiparous clients	52	16.9

231 clients out of a total number of 713 new clients - young women and adolescent girls representing a frequency of 32.25% - have received contraceptive methods at the Pikine Health Centre. The clients were between 15 and 24 years of age. Among them, 20% were teenage girls (n=46) and 80% were young

women (n=185). The average age was 21.2 years. The average parity was 2 with extremes of 0 and 5. Clients were mainly primiparous (n=105) or 45.5% of clients, followed by pauciparous clients (n=71) or 30.7% of clients. Multiparous, nulliparous and large multiparous clients accounted for 10.8%, 6.9% and 6.1% of clients respectively (Table 1). The majority of clients were married (n=203) or 88%. A number of 26 single clients were identified (11%) and 91 clients (39.4%) were uneducated.

In our series, 159 clients or 68.6% were requesting a contraceptive method for the first time. The injectable method was essentially the most chosen contraceptive method (n=148) or 64.1%. 31 clients or 13.4% chose the estrogen-progestogen pill and 29 clients or 12.6% chose implants. Side effects related to the use of contraceptive methods concerned 46 women or 19.9% of clients. Side effects were dominated by secondary amenorrhea (30.4%), pelvic pain (21.7%) followed by migraines (19.6%). Metrorrhagia and weight gain accounted for 17.4%.

Table 2: Distribution of patients by socio-demographic characteristics.

Continuity Rate (P Value= 0.000)							
	Injectables	Oestrogen-Progesterone Pills	Jadelle	Progesterone Pills	Intra-Uterine Device	Total	
Active	68 (59.1)	10 (8.7)	26 (22.6)	8 (7.0)	3 (2.6)	115	
Stoppages	4 (66.7)	2 (33.3)	0 (0.0)	0 (0.0)	0 (0.0)	6	
Dropouts	7 (63.6)	0(0.0)	0 (0.0)	4 (36.4)	0 (0.0)	11	
Lost to follow-up	69 (69.7)	19(19.2)	3 (3.0)	5 (5.1)	3 (3.0)	99	

Among the 231 adolescent girls and young women enlisted in 2013 at Pikine Health Centre, 115 were still active clients or 49.8% at the time we were collecting data. A lost to follow-up rate of 42.9% was also noted. Abandonments accounted for 4.8% and stoppages accounted for 2.6% of clients. The continuity rate was strongly linked with the type of contraception as reported in Table 2.

The choice of contraceptive method was linked to educational level and exclusive breastfeeding. Injectable contraceptive use rates were estimated at 64.8% for uneducated clients, 70.1% for

clients with primary school level, and 58.6% for clients with secondary school level. For estrogen-progestogen pills, rates ranged from 15.4% for uneducated clients, to 5.2% for clients with primary school level and 20.7% for those with secondary school level. 122 women or 57.8% were exclusively breastfeeding. Contraceptive practice varied according to exclusive breastfeeding with a p value=0 ,030. Thus 19.3% of non-lactating clients were on estrogen-progestogen pills compared to 7.4% for lactating clients. The difference was statistically significant. There was no significant link between contraceptive choice and age, parity, marital status and side effects (Table 3).

Table 3: Factors influencing the choice of contraceptive methods.

Contraceptive Methods	Injectables N (%)	Oestrogen- Progestogen Pills N (%)	Jadelle Implants N (%)	Progestogen Pills N(%)	IUD N(%)	Total
Age Group (P Value=0.599)						
15-19 years	30(65.2)	5(10.9)	6(13.0)	5(10.9)	0(0.0)	46
20 -24 years	118(65.8)	26(14.1)	23(12.4)	12(6.5)	6(3.2)	185
Parity (P value=0.149)						
Nulliparous clients	7(43.8)	3(18.8)	5(31.3)	1(6.3)	0(0.0)	16
Primiparous clients	77(73.3)	9(8.6)	11(10.5)	8(7.6)	0(0.0)	105
Pauciparous Clients	40(56.3)	14(19.7)	9(12.7)	5(7.0)	3(4.2)	71
Multiparous clients	16(64.0)	3(12.0)	3(12.0)	1(4.0)	2(8.0)	25
Large multiparous clients	8(57.1)	2(14.3)	1(7.1)	2(14.3)	1(7.1)	14
Side Effects Amenorrhoea						
Yes /No	9(64.3) /139(64.1)	1(7.1)/ 30(13.8)	4(28.6)/25(11.5)	0(0.0)/17(7.8)	0(0.0)/ 6(2.8)	14/217
Abdominal Pains						
Yes /No	10(100.0)/138(62.4)	0(0.0)/31(14.0)	0(0.0)/29(131)	0(0.0)/17(7.7)	0(0.0)/ 6(2.7)	10/221
Migraines, Headaches						
Yes / No	9(100.0)/ 139(62.6)	0(0.0)/31(14.0)	0(0,0)/29(13.1)	0(0.0)/17(7.7)	0(0.0)/ 6(2.7)	9/222

Metrorrhagia						
Yes / No	7(87.5) /141(63.2)	0(0.0) /31(13.9)	1(12.5) /28(12.6)	0(0,0)/17(7.6)	0(0.0)/ 6(2.7)	8/223
Weight Gain						
YES / No	6(75.0)/ 142(63.7)	1(12.5) /30(13.5)	0(0.0) /29(13.0)	1(12.5)/ 16(7.2)	0(0.0)/6(2.7)	8/223
Exclusive Breastfeeding						
Yes	80(65.6)	9(7.4)	15(12.3)	14(11.5)	4(3.3)	122
No	58(65.9)	17(19.3)	8(9.1)	3(3.4)	2(2.3)	88
P value=0.030						
School level						
Uneducated	59(64.8)	14(15.4)	8(8.8)	6(6.6)	4(4.4)	91
Primary school level	54(70.1)	4(5.2)	12(15.6)	6(7.8)	1(1.3)	77
Secondary school level	34(58.6)	12(20.7)	6(10.3)	5(8.6)	1(1.7)	58
P value=0.008						

Discussion

The frequency of enrolment of adolescent girls and young women was 32.2%. this rate was close to that of SARR [3] in Senegal in 2013, whose findings were 30% of female clients under 25 years of age. The average age of the clients was 21.2 years, with the 19-24 age group predominating, accounting for 80% of the clients compared to 20% for the 15-19 age group. Haidara [4] in Senegal in 2013 out of a young population of female, students found an average age of 23.7 years while LY [5] in 2001, out of a population of female adolescents, found an average age of 18 years.

As for the marital status, the majority of our clients (87.9%) were married. Most African authors had made the same observation. Indeed, Sanogo in Senegal [6] had found 90% of married women. This predominance of married women could be explained by the fact that in Senegal the majority of women (66%) are married [7] and that marriage is the favorable framework for sexual activity and procreation. Thus, married women are more likely to attend Family Planning services without fear of being judged negatively, unlike young adolescent girls, single women and widows. Marital status thus has a significant impact on contraceptive practice in our context. Regarding the educational level, most clients were illiterate (40%), followed by clients with primary school level (33.3%) and clients with secondary school level (25.1%). These results are very similar to those found by LY [5] in Dakar, Senegal in 2001, on a study of contraception among adolescent girls, with 45.3% illiterate, 37.1% having primary school level and 30.3% having secondary school level.

In our study, five modern contraceptive methods were mainly used by our clients. These were, first, injectables (64.1%), the estrogen-progestogen pill (13.4%), Jadelle implants (15.6%), the progestogen pill (7.4%) and the intrauterine device (2.6%) of the clients. Our results are not far from those of GUINDO in Mali in 2005[8] where 50% of clients had opted for injectables, 32.7% for oral contraceptives and 15.1% for IUD. Sarr [3] in Senegal

in 2013 at the Dakar Institute of Social Hygiene also found that five contraceptive methods were mainly used by clients for age groups under 20 and between 20 and 24. Thus, for the under-20 age group, Sarr [3] found 48.4% for injectable, 25% for oral contraceptives, 19.2% for the implant and 7.4% for the IUD. For the 20-24 age group, Mrsa [3] found 48.9% for injectables, 28% for oral contraceptives, 14.1% for implant and 8.9% for IUD. This predominance of injectable and oral contraceptives over long-term methods (IUDs and implants) in our study is supported by the results of the latest demographic and health survey in Senegal [7].

According to the Continuous Demographic Health Survey (DHS-C) 2014 [7], only 4.1% of women aged 15-19 years used modern contraception, with a preference for the pill for 1.6% and the injectable method for 1.1%. For women aged 20 to 24 years old, the Senegal 2014 Continuous Demographic and Health Survey (DHS) showed that of the 8.1% of women who used a modern contraceptive method, 3.6% used the injectable method followed by those who use implants 1.7% and then those using pills 1.1% of women in this age group [7,8]. As for injectable contraceptives, their easy use (one injection every 3 months) could be a factor influencing clients' choices. The low use of the IUD in Senegal (0.4%) according to the C-DHS and Nguer [9], is due to rumors about it, in particular the possibility of IUD migration, the occurrence of pelvic inflammatory disease, cervical cancer and also to its insertion, which requires a good command of the technique.

Analysis of the side effects shows that 19.9% of the clients noted that they were dominated by secondary amenorrhea (30.4%), followed by pelvic pain (21.7%) and migraines or headaches (19.6%). LY [7] in Dakar, Senegal in 2001 showed that secondary amenorrhea is the most common side effect among injectable clients (27.7%). According to Sarr [3] 39.9% of clients with weight gain were on injectable contraceptives (50.9%) and 25.3% were on oral contraceptives. In our study, the continuity

rate varied according to contraceptive choice with a p value of < 0.000. Active clients predominated at 49.8%. There was also a fairly high rate of loss of contact, representing 42.9% of clients. Abandons and stops represented 4.8% and 2.6% of clients respectively. The active ingredients were mainly under injectables 59.1% or under jadelle implant (22.6%). Of the clients who had dropped out, 63.6% were on injectables and 36.4% on progestin-only pills. The active ingredients were mainly under injectable (59.1%) or jadelle (22.6%). Of the clients who had dropped out, 63.6% were on injectables and 36.4% on progestin-only pills. According to DHS-continue Senegal 2014 [7], the overall 12-month discontinuity rate of contraceptive methods is 34.4%, in which 41.3% of clients were under injectables and 37.8% under oral contraceptives. SARR in Senegal [3] in 2013, during client follow-up, had recorded 6.8% stoppages, 2.4% dropouts. In addition, more than half of active clients were implants (69.1%) and IUD (34.5%) clients. Moreau [10] had noted an active client rate of 51.7% for injectable contraceptives, 58% for the jadelle implant, 63.6% for the IUD and 71.8% for oral contraceptives, with an average active client rate of 53.7%. This high rate of lost follow-ups (42.9%) could be explained by poor client awareness for follow-up or by dissatisfaction with clients who do not continue contraception. Indeed, BA [11] in his study carried out at the Gynecology and Obstetrical clinic at the University Hospital Centre Aristide Le Dantec in 1993, which examined the knowledge, practices and prospects of contraception among adolescent girls, found that there was little knowledge (17%) of contraceptive methods among adolescent girls. This was mainly due to a lack of information or inaccuracy in the information given in the field of contraception [12]. The epidemiological profile of pregnant adolescent girls, reveals that most of them are illiterate. As a result, the information conveyed in the population does not reach this target group. In addition, rumors as to contraceptive products are harmful in general also constitute a reluctance to take them [10].

In our study, the uneducated clients and those with secondary school level were more likely to choose the estrogen pill than primary school clients. Thus the distribution of the choice of method varied according to the level of education with a p value=0.008. In Burkina Faso and Congo [13] in 2005 we found that educated women, i. e. those with at least primary education, were 7 times more likely to use modern contraception than women with no education. Women's education therefore plays an important role in reducing their fertility. Apparently in Senegal, according to the DHS-continues 2014 Program [2] modern contraceptive prevalence increases with education level. From 14.3% for those with no schooling, this rate rises to 29.6% for primary school level clients and 33.4% for middle and secondary school level clients. These results are different from those found in our study, which show rates of 39.4% for clients with no schooling followed by clients with primary school level 33.3% and secondary school level clients 25.1%.

In our study 122 women (57.8%) were exclusively breast-feeding. Contraceptive practice varied according to exclusive breastfeeding with a p value=0 ,030. Thus 19.3% of non-lactating clients were on estrogen-progestogen pills compared to 7.4% for lactating clients. The difference was statistically significant. This correlation could be explained by the fact that after delivery, more specifically during breastfeeding, estrogen-progesterone are not recommended because they could reduce milk production [1].

Conclusion

Nowadays, sexuality during adolescence is becoming increasingly early, resulting in unwanted pregnancies and clandestine induced abortions. Therefore, managing this early sexuality and preventing its consequences becomes an imperative through the implementation of a favorable family planning policy, which responds to the reproductive health needs of adolescent girls in our regions.

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