

Menstrual pattern, sexual behaviors and contraceptive use among postpartum women in Nairobi slums

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Introduction

- Historically, postpartum women in the developing world relied on traditional birth spacing methods
 - Lactational amenorrhea &
 - Postpartum sexual abstinence
 - Long breastfeeding durations
- Today there is reduced role of traditional birth spacing mechanisms due to
 - Introduction of modern contraceptives,
 - Cultural transformations,
 - Increasing urbanization

Why study postpartum women?

- Nearly one third of women in SSA
 - exposed to the risk of pregnancy (sex + no contraceptives) within 2 years of childbirth.
- Short birth intervals and unwanted pregnancies
 - Decrease survival chances for the born baby
 - Present worse health outcomes for mother
 - Unwanted pregnancies - increasing abortion
- Challenges of unmet need
 - Highest in the first year of the postpartum period (Ross and Winfrey 2001)
 - High among poor and less educated women (Ashford 2003; Westoff 2006)

Why RH needs for urban poor?

- Urban populations projections

- Annual growth rate of 2.4% (UN-HABITAT 2008).
- Leading to rising poverty, inadequate shelter; access to safe water, sanitation, education and health services.
- Increasing urban populations means future population growth depends on the RH policies adopted for urban areas today.
- Understanding the RH needs of urban poor contributes to MDGs on maternal and child health.
- Mapping timing of the initiation of postpartum FP is essential in designing better FP programs for urban poor.

Example: Kenya urban slums

E.g. Kenya, rising urbanization is reflected in the many informal settlements that house over 50% of the Nairobi city population.



- characterized by congestion, disease, crime, poor hygiene, violence, poverty, early sexual debut, etc.
- Slum TFR is 4.0 (2000) vs 4.9 (Kenya national 2003)
- Slum maternal mortality ratio=706 per 100,000 live births.
- Slum HIV prevalence is 11.5 vs 7-8%(National 2007)

Research objectives

- To clarify the extent and nature of postpartum protection against pregnancy afforded
 - by amenorrhea &
 - sexual abstinence among urban slum women.
- Investigate contraceptive use modalities especially
 - the timing of contraception in relation to resumption of menses,
 - does timing influence method choice.

Data and Methods

- Eligibility criteria
 - birth since September 2006 (last 12 months).
 - Births in study area (2 Nairobi slums).
- Open-cohort
 - Follow-up interviews conducted every 4months thereafter.
- A monthly calendar type questionnaire used
 - Administered retrospectively to cover period since birth to interview
 - Data on sexual behaviour, menstrual resumption, breastfeeding patterns, and contraceptive was collected.
- Descriptive statistics and survival analysis techniques are used for the analysis.

Sample characteristics

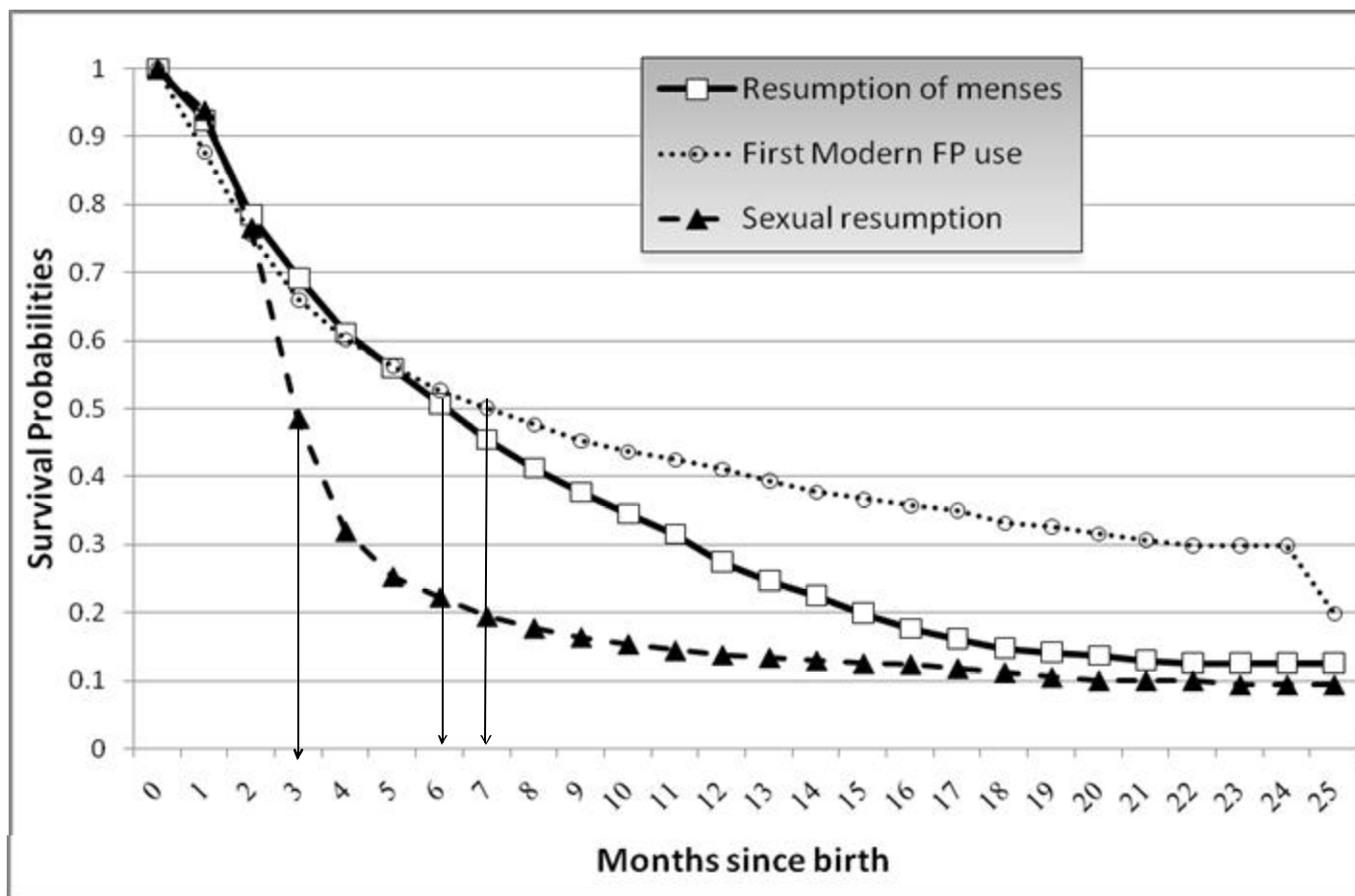
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	Baseline	Wave 2	Wave 3	Wave 4
	Feb-Apr 07	Jul-Aug 07	Oct07-May08	May-Aug 08
Cohort 1	617	490	312	233
Cohort 2	458		344	258
Cohort 3			948	691
Cohort 4				971

Characteristic	%
Currently married	78.6
With primary education	70.9
Used any method of contraception since birth	41.9

First menstrual resumption, first use of modern contraceptives & sexual resumption

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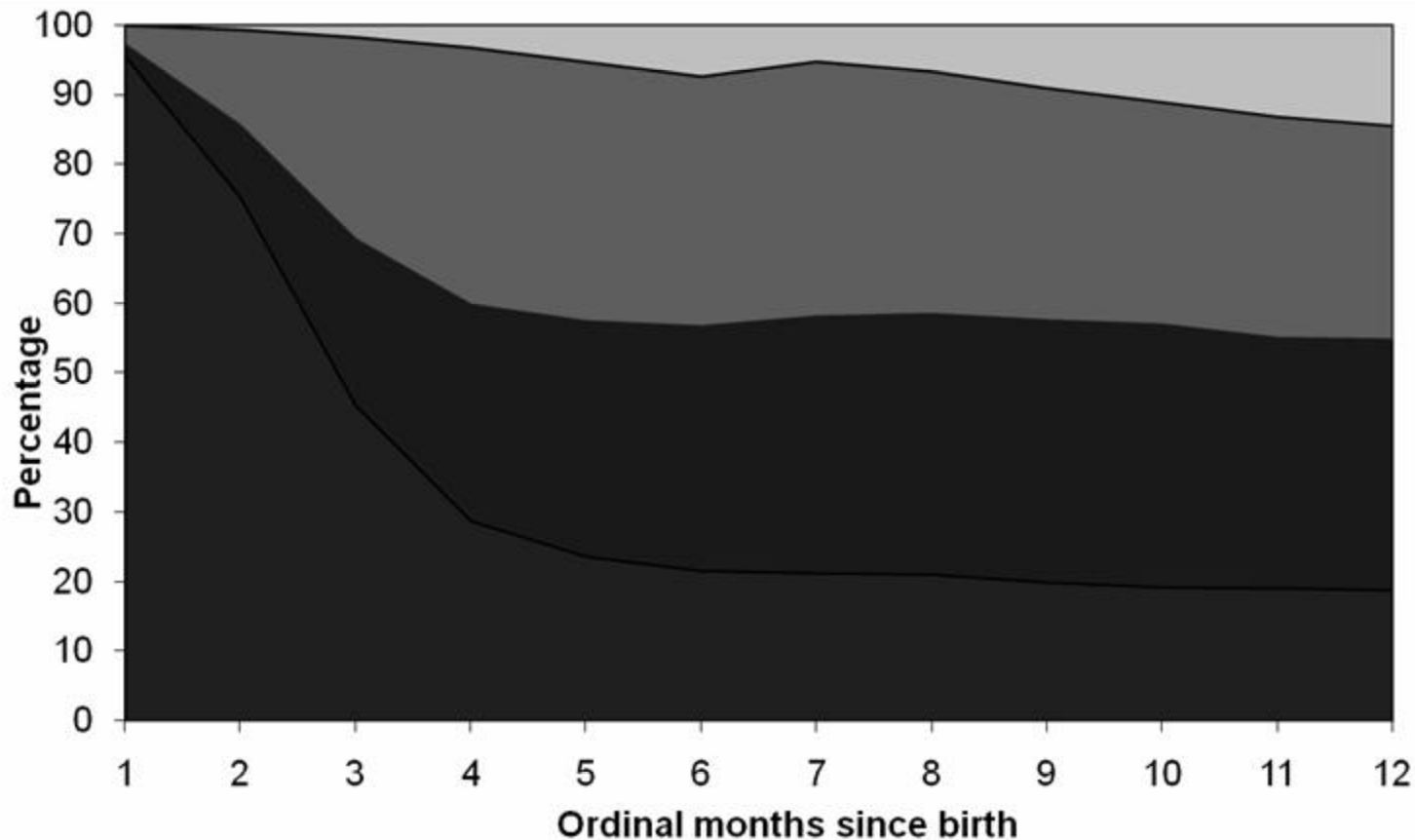


Postpartum & contraception

Protection categories of Postpartum months	No FP (%)	Modern FP (%)	Traditional FP(%)	Total (N)
Protected(amenorrhea+ sex)	87.6	10.8	1.6	7549
Protected(no sex+has menses)	76.2	21.3	2.5	2904
Low protection(Amenorrhea + sex)	52.8	39.3	7.9	8237
Exposed(has menses+sex)	27.5	63.3	9.2	6907
Currently pregnant	98.0	1.4	0.6	350
Total	59.4	34.9	5.7	25947

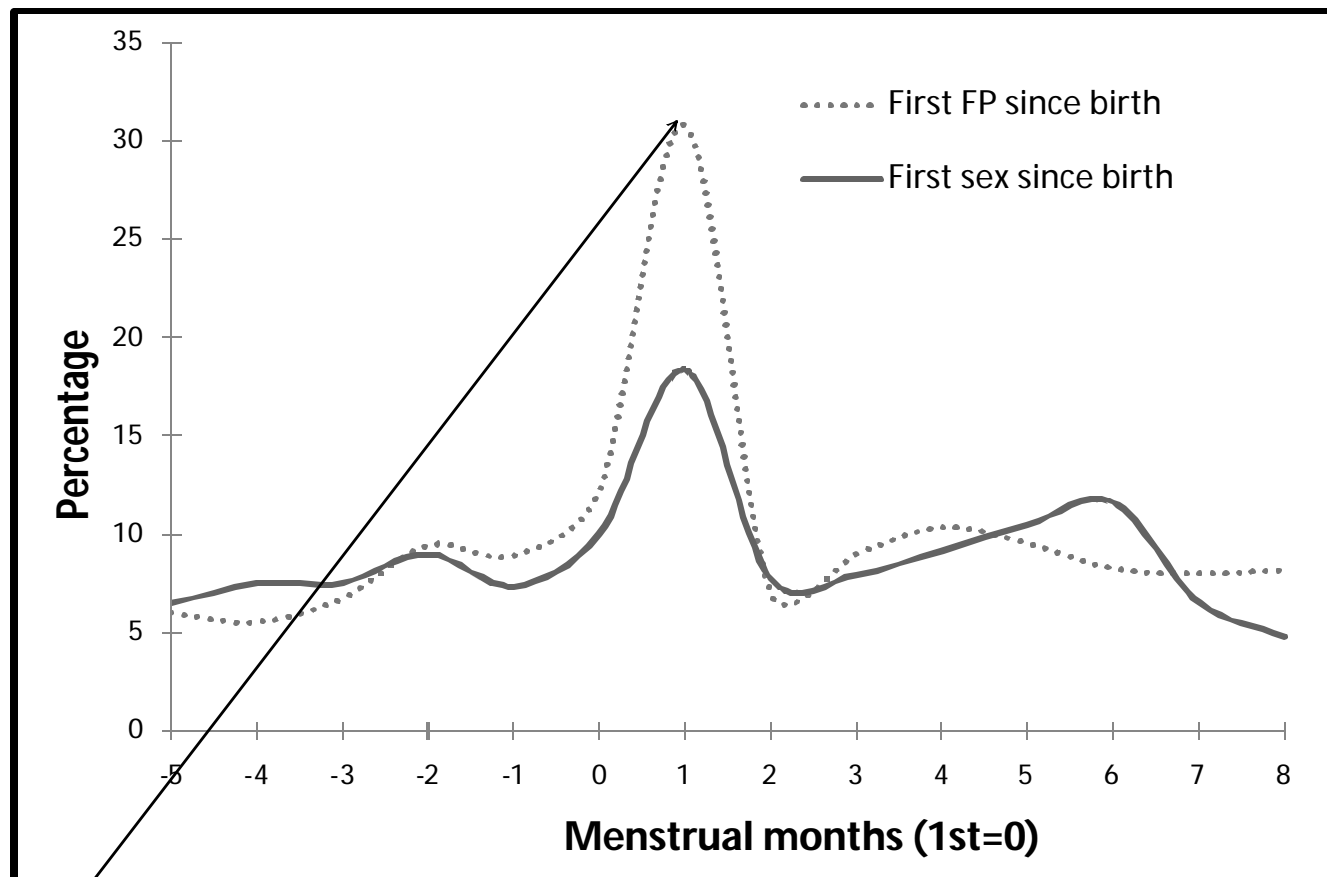
Cumulated postpartum women-months of exposure and protection against pregnancy

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■ No sex ■ Sex+FP ■ Sex+no FP ■ Currently pregnant

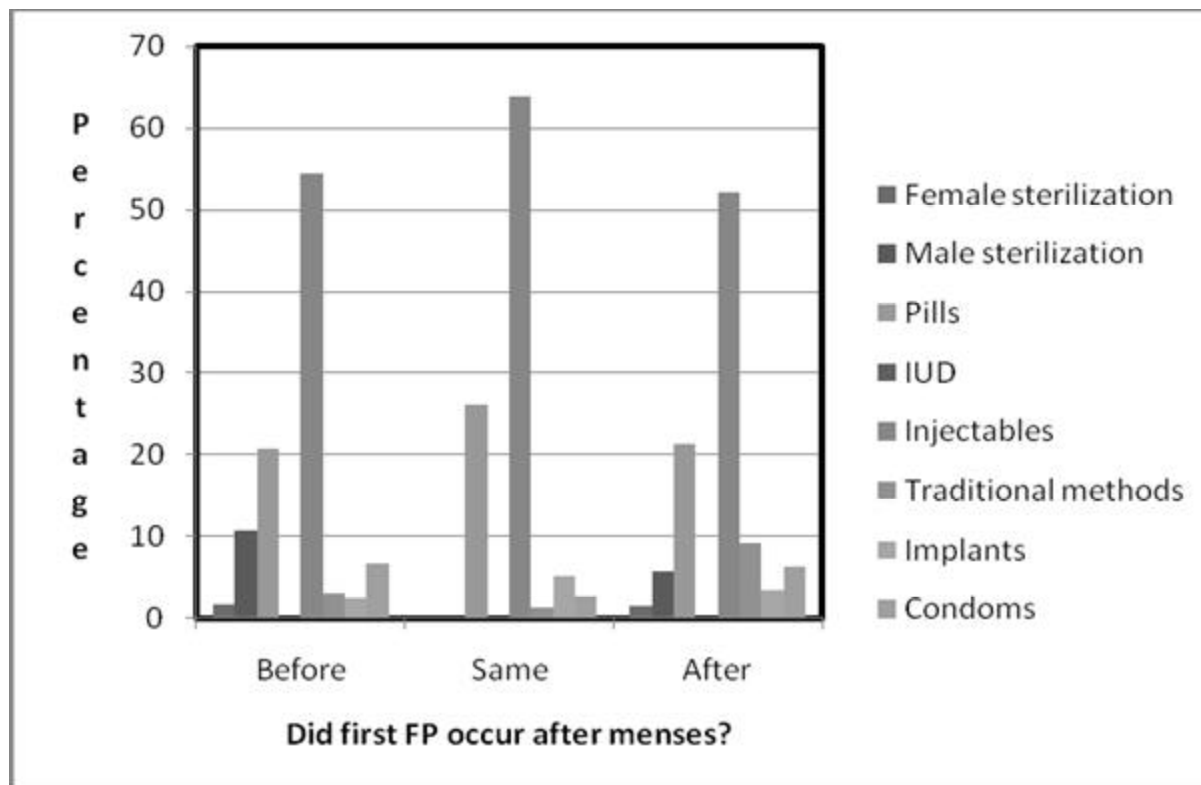
Resumption of Menses and timing of first modern contraceptive use and first sexual intercourse.



*FP=Modern Family planning method

- Majority of the postpartum women initiate
 - contraceptive use during the months following their first menstrual cycle

Choice of first contraceptives & timing of menstruating among women in informal settlements.



*FP=Family planning

- Injectables (12 monthly average of 48%) and pills (22%) remain the most common methods used during the 1st 12 months.
- Condom use is low

Key results

- **Sexual resumption seems to occur earlier than**
 - menses resumption
 - postpartum contraceptive resumption.
- **Menses resumption acts as a trigger for initiating postpartum contraceptive use**
 - heightened peak of first contraceptive use occurs shortly after the first menses.
- **Minimal differences in contraceptive method choice are observed**
 - between early adopters vs late adopters in respect of menstrual resumption.
- **Few women use condoms,**
 - a method for dual protection against STI /HIV and pregnancy.
- **For months where women were exposed to the risk of pregnancy (resumed sexual relations and menses)**
 - about 28% were months where no contraceptive method was used.

Conclusions

- Contraceptive use high, adoption of FP is early but there a few who face the risk of pregnancy
- Condom use is low – expected if compared to national averages
- Postpartum poor women need increased access to family planning and reproductive health services
 - in order to reduce the numbers of unwanted births, abortions
 - increase the length of subsequent birth intervals and better maternal health outcomes.
- Postnatal visits and other subsequent health system contacts are promising opportunities for serving postpartum women with a desire to use family planning services in Nairobi urban slums.

Acknowledgements

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Research communities