## USE OF FAMILY PLANNING INTHE POSTPARTUM PERIOD

# DHS COMPARATIVE REPORTS 36 

## SEPTEMBER 2014

This publication was produced for review by the United States Agency for International Development (USAID). The report was prepared by William Winfrey and Kshitiz Rakesh of ICF International.

## DHS Comparative Report No. 36

## Use of Family Planning in the Postpartum Period

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September 2014

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Acknowledgment: The authors thank Sarah Staveteig and Kerry MacQuarrie for assistance in using the reproductive calendar. The authors also thank Anne Pfitzer, John Ross, and John Stover for helpful reviews that spotted errors in the analysis and helped shaped the presentation of the results.

Editor: Bryant Robey
Document Production: Yuan Cheng

This study was carried out with support provided by the United States Agency for International Development (USAID) through The DHS Program (\#AID-OAA-C-13-00095). The views expressed are those of the authors and do not necessarily reflect the views of USAID or the United States Government.

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Recommended citation:
Winfrey, William, and Kshitiz Rakesh. 2014. Use of Family Planning in the Postpartum Period. DHS Comparative Report No. 36. Rockville, Maryland, USA: ICF International.

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## Preface

The Demographic and Health Surveys (DHS) Program is one of the principal sources of international data on fertility, family planning, maternal and child health, nutrition, mortality, environmental health, HIV/AIDS, malaria, and provision of health services.

One of the objectives of The DHS Program is to provide policymakers and program managers in low- and middle-income countries with easily accessible data on levels and trends for a wide range of health and demographic indicators. DHS Comparative Reports provide such information, usually for a large number of countries in each report. These reports are largely descriptive, without multivariate methods, but when possible they include confidence intervals and/or statistical tests.

The topics in the DHS Comparative Reports series are selected by The DHS Program in consultation with the U.S. Agency for International Development.

It is hoped that the DHS Comparative Reports will be useful to researchers, policymakers, and survey specialists, particularly those engaged in work in low- and middle-income countries.

Sunita Kishor

Director, The DHS Program


#### Abstract

This report used reproductive calendar data from 43 Demographic and Health Surveys (DHS) representing 61 percent of the developing world's population (excluding China) to examine the use of family planning in the postpartum period. Postpartum women are more likely to use injectables and the lactational amenorrhea method and less likely to use female sterilization compared with all currently married women. In most countries use of postpartum family planning is not strongly related to the age of the mother, parity, or the wantedness of the last birth. In most countries use of postpartum family planning is positively related to urban location, wealth, education level, achievement of desired family size, and current fertility desires. It is negatively related to the number of children under age 5 born to the woman. There is the strong correlation between use of maternal health care and use of postpartum family planning.


Keywords: postpartum family planning, family planning, maternal health services

## Executive Summary

This report uses the reproductive calendar of the Demographic and Health Surveys (DHS) to examine the use of family planning in the postpartum period. The reproductive calendar has been used infrequently in such analyses. Previous global analyses of postpartum family planning have measured family planning use at the time of the survey. Using the reproductive calendar allows for more robust analysis of postpartum family planning by increasing the sample sizes available at any point in time during the postpartum period.

The study analyzes data from 43 country surveys representing 61 percent of the developing world's population (excluding China). To the author's knowledge, this is the first analysis of postpartum family planning using the DHS reproductive calendar with such broad global coverage. The countries analyzed are: Albania, Armenia, Azerbaijan, Bangladesh, Benin, Bolivia, Burkina Faso, Burundi, Cambodia, Colombia, Comoros, Egypt, Ethiopia, Ghana, Guyana, Honduras, India, Indonesia, Jordan, Kenya, Kyrgyz Republic, Lesotho, Madagascar, Malawi, Maldives, Moldova, Mozambique, Namibia, Nepal, Niger, Nigeria, Pakistan, Peru, Rwanda, Senegal, Sierra Leone, Tajikistan, Tanzania, Timor-Leste, Uganda, Ukraine, Zambia, and Zimbabwe.

Three types of analysis were performed: 1) a comparison of postpartum family planning tabulated using the reproductive calendar with postpartum family planning tabulated based on current use of family planning; 2) a comparison of postpartum family planning methods with the methods used by all currently married women; and 3) disaggregation of postpartum family planning use based on demographic characteristics, socioeconomic characteristics, fertility preferences, and use of maternal health services.

The two methods of tabulating use of postpartum family planning yielded similar results in most cases. As the postpartum period extended, the match between the two tabulation methods became closer. At 1-2 months postpartum the measures for 33 of the 43 countries were within 10 percent of one another. At 911 months postpartum the measures for 41 of the countries were within 10 percent of one another. In general, the family planning method mix for postpartum women was different than the mix for all currently married women. Levels of use of injectables and the lactational amenorrhea method were greater among postpartum women than all currently married women, while the level of use of female sterilization was greater among currently married women than postpartum women.

In disaggregation, use of postpartum family planning showed some broad trends by background characteristics. In most countries use of postpartum family planning is not strongly related to the age of the mother, parity, or the wantedness of the last birth. In most countries use of postpartum family planning is positively related to urban location, household wealth, education, achievement of desired family size, and current fertility desires. It is negatively related to the number of children under age 5 born to the woman. There is a strong correlation between the use of maternal health care (including antenatal care and facility based-births) and postpartum family planning.

Given its broad reach, this report cannot reach definitive conclusions, but it does suggest several areas for further investigation and analysis. These include: 1) In-depth analysis and interpretation of results on a country-by-country basis; 2) further comparison of overall use and postpartum use of family planning; 3) examination of the relationship between postpartum family planning and birth intervals; 4) improved access to the reproductive calendar by researchers without advanced data analysis skills; 5) inclusion of postpartum family planning tabulations in DHS final reports; and 6) multivariate analysis to generate results that are more robust in establishing causality or plausible correlations.

## 1. Introduction

This report examines the use of family planning in the postpartum period based on data from the infrequently used reproductive health calendar. Previous extensive examinations of postpartum family planning using the Demographic and Health Surveys (DHS) have looked exclusively at current use of family planning relative to the most recent birth (e.g., Ross and Winfrey 2001; Borda et al. 2010). However, with this particular mode of analysis relatively few births are available for tabulation. For example, to examine postpartum family planning at one month postpartum, only women who had a birth a month before the survey are eligible for analysis. In contrast, by using the reproductive calendar this comparative report looks at many more births than just the most recent birth. To the extent that women's recall is good, the results will be more robust and it will be possible to examine differences in postpartum family planning use across a wide range of characteristics.

This report will be the first quantitative report to the authors' knowledge that has looked at postpartum family planning across a wide set of countries using the reproductive calendar. As such, its main intent is to create a baseline understanding of levels of postpartum family planning and differentials for women with different demographic and socioeconomic characteristics, fertility preferences, and use of maternal health services. Broad conclusions for the 43 countries analyzed here will be few, partially due to the geographic disparity of the countries. Also, in-depth analysis of any given country is not the intent of the study. The discussion section of the report will present a few broad conclusions and some ideas for how the reproductive calendar can be used for individual countries to analyze postpartum family planning in more depth.

### 1.1. Literature Review

### 1.1.1. Methods used to assess postpartum family planning

Typically, postpartum family planning is evaluated by disaggregating current use of family planning relative to the time of most recent birth for an interviewed woman. Using the Demographic and Health Surveys for this kind of analysis leads to a small number of observations. An analysis of 17 African countries by Borda and colleagues (2010) used sample sizes for tabulation that were often smaller than 100 observations. In spite of the small sample sizes, the authors found that frequently there was a significant association between postpartum family planning use and return to menses. Previous to this, Ross and Winfrey (2001) used similar methods to examine family planning use, unmet need, and intention to use family planning in the postpartum period. They found high levels of unmet need for family planning and low levels of contraceptive use in the postpartum period in most countries.

Although the reproductive calendar is freely available for download for many countries, it has been used infrequently to evaluate postpartum family planning use. Recently, three studies have used the reproductive calendar. Akinlo and colleagues made an analysis of the impact of maternal health services on postpartum family planning use in Nigeria (Akinlo et al. 2013). Hotchiss and Do published multivariate results for the impact of antenatal and postnatal care on use of postpartum family planning in Kenya and Zambia (Hotchkiss and Do 2013). Previously, Gebreselassie and colleagues looked at postpartum family planning in the Dominican Republic, Indonesia, Kenya, and Peru using the reproductive calendar (Gebreselassie et al. 2010). However, to the authors' knowledge there has never been a comprehensive documentation of global postpartum family planning use using the reproductive calendar.

### 1.1.2. Factors associated with postpartum family planning use

Several studies have looked at the relationship between postpartum family planning and potential explanatory factors. These factors can be roughly divided into demographic characteristics, socioeconomic characteristics, fertility preferences, and use of maternal health services. The following briefly summarizes the results from four studies (Akinlo et al. 2013; Hotchkiss and Do 2013; Gebreselassie et al. 2010; Zerai and Tsui 2001). In all, these studies examined Bolivia, Dominican Republic, Egypt, Indonesia, Kenya, Nigeria, Peru, Thailand, and Zambia.

Demographic characteristics. In general, older women use postpartum family planning less frequently than younger women. However, there is not a clear trend that the youngest women use family planning more than middle-aged women. Only one study, based on Nigeria, used birth order or parity and it did not show a clear relationship with postpartum family planning use (Akinlo et al. 2013).

Socioeconomic characteristics. When wealth, as measured by the DHS wealth index, was included in the analyses, it was always found to have a strong relationship with postpartum family planning use. Education was also found in all cases to be related to greater postpartum family planning use. In bivariate relationships, being in an urban area was positively related to the use of postpartum family planning. However, this relationship frequently disappeared in multivariate analyses where other control variables were included (Hotchkiss and Do 2013).

Fertility preferences. Fertility preferences were measured two ways in these studies. First, in four countries studies analyzed wantedness of the child that was just born (Gebreselassie et al. 2010). Only in Peru was wantedness found to be related to postpartum family planning use. Second, forward-looking fertility preferences were examined for Bolivia, Egypt, Thailand, Kenya, and Zambia (Zerai and Tsui 2001; Hotchkiss and Do 2013). They were significantly correlated with postpartum family planning use in all countries except Zambia.

Use of maternal health services. Use of antenatal care and/or delivery care has been examined in all of the surveys included in the studies (Akinlo et al. 2013; Hotchkiss and Do 2013; Gebreselassie et al. 2010; Zerai and Tsui 2001). In all cases except one, these factors have been found to be related to postpartum family planning use. The exception is Zambia, where antenatal care was not found to be significantly correlated with postpartum family planning use in a multivariate analysis (Hotchkiss and Do 2013).

## 2. Data and Methods

### 2.1. DHS Data Used in the Study

The data used in this study come from the most recent national DHS surveys with fieldwork that took place between 2005 and 2012 and that contain a reproductive calendar.

The 43 surveys selected for this analysis represent the following countries: Albania, Armenia, Azerbaijan, Bangladesh, Benin, Bolivia, Burkina Faso, Burundi, Cambodia, Colombia, Comoros, Egypt, Ethiopia, Ghana, Guyana, Honduras, India, Indonesia, Jordan, Kenya, Kyrgyz Republic, Lesotho, Madagascar, Malawi, Maldives, Moldova, Mozambique, Namibia, Nepal, Niger, Nigeria, Pakistan, Peru, Rwanda, Senegal, Sierra Leone, Tajikistan, Tanzania, Timor-Leste, Uganda, Ukraine, Zambia, and Zimbabwe (Table 1).

The population of these 43 countries represents 46 percent of the total population of less developed countries, and 61 percent if China is excluded (United Nations Population Division 2012).

Table 1. List of surveys, by year

| Year | Countries |
| :--- | :--- |
| 2005 | Moldova |
| $2005-2006$ | India |
| 2006 | Azerbaijan |
| $2006-2007$ | Namibia |
| 2007 | Ukraine, Zambia |
| 2008 | Bolivia, Egypt, Ghana, Nigeria, Sierra Leone |
| $2008-2009$ | Albania, Kenya, Madagascar |
| 2009 | Guyana, Lesotho, Maldives |
| $2009-2010$ | Timor-Leste |
| 2010 | Armenia, Burkina Faso, Burundi, Colombia, Cambodia, Malawi, Rwanda, Tanzania |
| $2010-2011$ | Senegal, Zimbabwe |
| 2011 | Bangladesh, Ethiopia, Mozambique, Nepal, Uganda |
| $2011-2012$ | Benin, Honduras |
| 2012 | Comoros, Indonesia, Jordan, Kyrgyz Republic, Niger, Peru, Tajikistan |
| $2012-2013$ | Pakistan |

### 2.2. Methods

The analysis in this report uses the information in the DHS reproductive calendar. All women for whom the calendar was completed and who gave birth ${ }^{1}$ in the last five years are included in the analysis, regardless of marital status. The reproductive calendar typically records, for each of the 60 months preceding the interview, all pregnancies, births, and terminations, as well as use of family planning. This report merges the reproductive calendar with the birth record for each of the births in a survey for the last 60 months. Therefore, the earliest surveys in 2006 can capture births back to 2001. Three basic analyses are performed in this report: 1) postpartum family planning is tabulated monthly for a twelve-month period; 2) the method mix for postpartum family planning users is tabulated at three months postpartum; and 3) postpartum family planning at three months is tabulated disaggregating by demographic factors, socioeconomic factors, fertility preferences, and use of maternal health services.

### 2.2.1. Definition of the postpartum period

This report uses two definitions of the postpartum period. First, a postpartum period of 12 months is used in a comparison of postpartum family planning based on tabulation of the reproductive calendar versus a tabulation of postpartum family planning based on use of family planning at the time of the survey. This extended postpartum period is used because it will help the reader better understand how well the two measures compare with one another. The second definition of the postpartum period is based on a period three months postpartum. This definition is used for the disaggregation of postpartum family planning based on demographic factors, socioeconomic factors, fertility preferences, and use of maternal health services. The emphasis of this report is the early adoption of postpartum family planning. The further one moves away from the postpartum period the more likely it is that the postpartum family planning users will resemble all users of family planning. In several countries use of family planning at one month or two months was virtually nil (even in countries with high contraceptive prevalence, such as Bangladesh). At three months, all countries with at least moderate levels of overall family planning use see some uptake of postpartum family planning. Therefore, three months was chosen as the postpartum period for analysis.

### 2.2.2. Use of the reproductive calendar to establish postpartum family planning

The reproductive calendar is based upon the memory of women over the last 60 months. The month of a birth is likely remembered with little error. Use of family planning over a 60-month period is probably remembered well for periods near the interview date, and less well for the more distant times. Also, initiation of family planning might be remembered relatively accurately if family planning was initiated immediately postpartum. Rather than needing to remember a particular month, a woman could remember that she started using family planning immediately following birth, an event easily remembered or likely to be documented.

Table 2 makes a comparison of postpartum family planning based on two methods of tabulation. The first is based upon the retrospective recall of women from the reproductive calendar. The tabulations are for births that were from 12 to 23 months before the survey. This relatively narrow band of time was chosen to make the time period as close as possible to the time of the interview. This is useful since several of the countries represented in this report experienced rapid increases in use of family planning over the five years preceding the survey. The second tabulation is based on current family planning use as reported in the interview.

[^0]The tabulations drawn from the reproductive calendar are based on many more observations, and the same number of observations (in this case, births) are used for each column of tabulation. This is because we have information for each month concerning family planning. In contrast, each column of the tabulation on family planning use based on data about current use has a different number of observations (in this case, women), because a given birth is used only once in the calculations.

In general there is variation between the two methods of tabulation. In 16 of 43 cases the difference between the two methods of tabulation is greater than 5 percent at 1-2 months postpartum, and in 10 cases the difference exceeds 10 percent. At 9-11 months the differences become less stark, with 13 of 43 cases having differences of greater than 5 percent, and 2 cases having differences of greater than 10 percent. It probably is impossible to know which of the methods is more correct, for at least three reasons: 1) The two methods are not measuring the same point in time-that is, current family planning use was queried at least one year after the family planning use was queried with the calendar. 2) The tabulation of postpartum family planning based on current use of family planning suffers from large standard errors in the measurement due to small sample sizes. 3) The measurement of family planning based on the reproductive calendar likely suffers from large measurement errors.
Table 2. Postpartum family planning use at 1-2 months, 3-5 months, 6-8 months, 9-11 months tabulated using the reproductive calendar
and tabulated based on current use of family planning at time of interview, 43 DHS surveys, 2005-2013

|  | Tabulations based on use of family planning obtained from the reproductive calendar (average of use in time span postpartum), births 12 to 23 months preceding the interview |  |  |  | of births$\qquad$ | Tabulations based on use of family planning at time of interview |  |  |  | Numbers of women for tabulations based on currently married women at time of interview |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1-2 months postpartum | 3-5 months postpartum | 6-8 months postpartum | 9-11 months postpartum |  | 1-2 months postpartum | 3-5 months postpartum | 6-8 months postpartum | 9-11 months postpartum | 1-2 months postpartum | 3-5 months postpartum | 6-8 months postpartum | 9-11 months postpartum |
| West and Central Africa |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Benin 2011-2012 | 3.1 | 5.8 | 9.0 | 10.0 | 2,548 | 2.3 | 5.9 | 7.9 | 7.3 | 971 | 1,277 | 1,178 | 1,136 |
| Burkina Faso 2010 | 1.5 | 5.7 | 9.1 | 11.2 | 2,995 | 2.7 | 6.8 | 9.5 | 13.5 | 1,276 | 1,513 | 1,414 | 1,223 |
| Ghana 2008 | 2.7 | 6.9 | 15.0 | 19.5 | 602 | 1.8 | 9.2 | 16.4 | 21.0 | 283 | 301 | 268 | 276 |
| Niger 2012 | 17.1 | 22.7 | 23.5 | 23.1 | 2,374 | 11.7 | 19.4 | 25.7 | 24.4 | 1,316 | 1,426 | 1,301 | 1,107 |
| Nigeria 2008 | 3.7 | 8.2 | 11.6 | 13.2 | 6,310 | 4.5 | 12.9 | 14.9 | 16.5 | 2,741 | 3,328 | 3,223 | 3,028 |
| Senegal 2010-2011 | 6.1 | 11.6 | 14.8 | 16.3 | 1,367 | 8.7 | 15.4 | 18.8 | 16.8 | 619 | 704 | 679 | 598 |
| Sierra Leone 2008 | 3.9 | 4.3 | 4.4 | 5.1 | 1,138 | 3.0 | 4.4 | 5.3 | 3.0 | 561 | 647 | 573 | 495 |
| East and Southern Africa |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Burundi 2010 | 6.0 | 10.0 | 12.8 | 15.5 | 1,664 | 15.1 | 22.1 | 19.1 | 22.3 | 633 | 729 | 741 | 712 |
| Comoros 2012 | 5.1 | 12.8 | 17.3 | 19.5 | 648 | 7.4 | 15.9 | 22.7 | 24.6 | 278 | 393 | 330 | 283 |
| Ethiopia 2011 | 5.8 | 13.0 | 16.9 | 19.3 | 2,051 | 4.2 | 15.0 | 19.4 | 20.7 | 1,138 | 1,280 | 1,165 | 849 |
| Kenya 2008-2009 | 12.7 | 27.5 | 34.2 | 37.6 | 1,184 | 16.0 | 25.6 | 33.1 | 38.2 | 537 | 600 | 638 | 539 |
| Lesotho 2009 | 18.0 | 27.6 | 34.6 | 40.1 | 847 | 21.8 | 36.3 | 37.7 | 49.5 | 303 | 417 | 294 | 310 |
| Madagascar 2008-2009 | 9.8 | 17.3 | 24.0 | 28.9 | 2,263 | 13.0 | 18.1 | 23.0 | 29.3 | 994 | 1,265 | 1,166 | 1,066 |
| Malawi 2010 | 10.7 | 25.7 | 39.7 | 46.8 | 4,117 | 13.1 | 34.4 | 46.9 | 51.9 | 1,509 | 1,634 | 1,995 | 1,753 |
| Mozambique 2011 | 2.2 | 5.5 | 7.5 | 9.2 | 2,328 | 1.8 | 5.1 | 9.2 | 14.2 | 927 | 1,064 | 1,050 | 1,074 |
| Namibia 2006-2007 | 22.4 | 33.2 | 40.5 | 44.2 | 1,075 | 20.3 | 44.5 | 58.6 | 63.7 | 371 | 491 | 419 | 426 |
| Rwanda 2010 | 12.9 | 25.8 | 33.0 | 38.6 | 1,720 | 13.4 | 35.7 | 40.0 | 47.0 | 622 | 700 | 736 | 686 |
| Tanzania 2010 | 9.2 | 18.1 | 24.0 | 28.4 | 1,630 | 7.2 | 25.0 | 27.7 | 37.5 | 778 | 804 | 724 | 714 |
| Uganda 2011 | 4.9 | 11.3 | 16.9 | 21.5 | 1,536 | 5.5 | 20.5 | 26.8 | 25.7 | 810 | 824 | 776 | 795 |
| Zambia 2007 | 19.7 | 29.6 | 41.2 | 46.3 | 1,347 | 17.7 | 36.5 | 45.9 | 48.3 | 600 | 666 | 622 | 596 |
| Zimbabwe 2010-2011 | 42.8 | 57.5 | 61.5 | 62.1 | 1,121 | 39.8 | 72.9 | 74.3 | 76.9 | 441 | 603 | 527 | 495 |
| Middle East and North Africa |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Egypt 2008 | 43.1 | 76.3 | 76.4 | 75.0 | 2,246 | 31.8 | 71.8 | 73.7 | 74.2 | 905 | 1,006 | 1,124 | 862 |
| Jordan 2012 | 51.6 | 80.2 | 78.3 | 73.7 | 2,064 | 46.5 | 77.0 | 77.1 | 67.2 | 769 | 899 | 928 | 882 |
| South and Southeast Asia |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bangladesh 2011 | 13.2 | 38.3 | 50.7 | 57.9 | 1,608 | 19.9 | 44.6 | 58.0 | 57.5 | 587 | 593 | 590 | 628 |
| Cambodia 2010 | 3.2 | 14.5 | 31.0 | 41.2 | 1,685 | 8.0 | 20.9 | 39.6 | 43.4 | 531 | 641 | 623 | 633 |
| India 2005-2006 | 10.9 | 21.8 | 29.2 | 32.7 | 10,022 | 9.6 | 21.5 | 29.5 | 34.8 | 3,651 | 4,800 | 4,487 | 3,936 |
| Indonesia 2012 | 35.3 | 69.9 | 76.7 | 78.2 | 3,604 | 35.3 | 76.2 | 75.8 | 80.1 | 1,161 | 1,274 | 1,311 | 1,299 |

Table 2. - Continued

|  | Tabulations based on use of family planning obtained from the reproductive calendar (average of use in time span postpartum), births 12 to 23 months preceding the interview |  |  |  | Number of births | Tabulations based on use of family planning at time of interview |  |  |  | Numbers of women for tabulations based on currently married women at time of interview |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1-2 months postpartum | 3-5 months postpartum | 6-8 months postpartum | 9-11 months postpartum |  | 1-2 months postpartum | $3-5$ <br> months <br> postpartum | 6-8 months postpartum | 9-11 months postpartum | 1-2 months postpartum | 3-5 months postpartum | 6-8 months postpartum | 9-11 months postpartum |
| Maldives 2009 | 17.0 | 26.5 | 33.6 | 35.0 | 824 | 8.3 | 21.8 | 23.9 | 36.6 | 200 | 352 | 296 | 283 |
| Nepal 2011 | 4.9 | 15.5 | 24.4 | 29.9 | 973 | 6.9 | 16.8 | 29.9 | 36.9 | 365 | 462 | 462 | 363 |
| Pakistan 2012-2013 | 16.0 | 31.7 | 34.3 | 33.2 | 2,187 | 12.9 | 37.1 | 34.0 | 38.6 | 1,039 | 1,246 | 1,015 | 992 |
| Timor-Leste 2009-2010 | 5.1 | 12.2 | 16.3 | 17.9 | 1,904 | 2.8 | 13.3 | 22.3 | 18.4 | 857 | 1,190 | 936 | 916 |
| Eastern Europe and Central Asia |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Albania 2008-2009 | 45.8 | 66.9 | 68.9 | 70.3 | 289 | 42.2 | 59.5 | 71.5 | 72.6 | 93 | 120 | 103 | 88 |
| Armenia 2010 | 31.2 | 52.5 | 58.3 | 61.3 | 323 | 28.0 | 50.2 | 50.7 | 57.6 | 121 | 109 | 100 | 116 |
| Azerbaijan 2006 | 28.5 | 47.3 | 48.8 | 46.2 | 473 | 25.0 | 43.4 | 48.9 | 49.2 | 188 | 192 | 196 | 147 |
| Kyrgyz Republic 2012 | 8.3 | 16.2 | 21.0 | 25.4 | 878 | 7.0 | 16.0 | 24.2 | 28.6 | 333 | 426 | 411 | 431 |
| Moldova 2005 | 60.0 | 74.4 | 73.8 | 72.3 | 344 | 52.2 | 74.1 | 65.4 | 77.7 | 81 | 121 | 87 | 112 |
| Tajikistan 2012 | 9.1 | 15.0 | 16.1 | 18.2 | 1,056 | 5.2 | 11.5 | 12.6 | 12.0 | 348 | 444 | 464 | 450 |
| Ukraine 2007 | 14.0 | 45.3 | 63.3 | 70.9 | 224 | 15.4 | 40.6 | 48.9 | 64.9 | 48 | 73 | 78 | 75 |
| Latin America and the Caribbean |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bolivia 2008 | 16.1 | 27.2 | 37.4 | 43.8 | 1,826 | 17.8 | 38.0 | 41.9 | 46.4 | 615 | 714 | 715 | 680 |
| Colombia 2010 | 40.0 | 66.2 | 72.3 | 73.8 | 3,537 | 43.5 | 70.5 | 80.9 | 79.0 | 1,005 | 1,268 | 1,297 | 1,283 |
| Guyana 2009 | 15.0 | 28.5 | 36.1 | 38.8 | 452 | 14.1 | 43.5 | 47.5 | 49.3 | 159 | 231 | 202 | 176 |
| Honduras 2011-2012 | 33.6 | 62.6 | 67.8 | 68.4 | 2,332 | 38.9 | 64.5 | 73.4 | 73.9 | 733 | 918 | 808 | 817 |
| Peru 2012 | 41.1 | 57.7 | 68.2 | 71.8 | 1,896 | 42.9 | 55.2 | 68.0 | 72.3 | 532 | 699 | 648 | 664 |

Note: The tabulations based on the reproductive calendar are based on births 12 to 23 months before the survey to assure that the observational period is not truncated for 12 months postpartum. Use of postpartum family planning for the 2 - or 3 -three month periods is based upon averages of the use at each of the months postpartum, e.g., use at $1-2$ months is the average of use at one month postpartum
The tabulations based on current use of family planning are cross tabulations of current family planning use among currently married women aged $15-49$ versus the number of months since her last birth

## 3. Results

### 3.1. Evolution of Family Planning Use across the Postpartum Period

Table 3 presents the month-by-month evolution of postpartum family planning use by country for births from 12 to 36 months before the survey, using the reproductive calendar. At one month postpartum the results vary widely, from less than 1 percent in Burkina Faso to more than 50 percent in Moldova. At 12 months postpartum the results vary as well, from less than 10 percent in Benin, Mozambique, and Sierra Leone to more than 70 percent in Colombia, Egypt, Indonesia, Moldova, Peru, and Ukraine.

Table 3. Postpartum family planning use (any method) at one-month intervals in the postpartum period for births 12-23 months preceding the survey, tabulated using the reproductive calendar, 43 DHS surveys, 2005-2013

|  | Number of months postpartum |  |  |  |  |  |  |  |  |  |  |  | Number of births |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| West and Central Africa |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Benin 2011-2012 | 2.2 | 2.6 | 3.6 | 5.3 | 6.3 | 7.1 | 7.9 | 8.2 | 8.6 | 9.0 | 9.1 | 9.3 | 4,913 |
| Burkina Faso 2010 | 0.6 | 1.9 | 3.6 | 5.0 | 6.2 | 7.2 | 8.3 | 9.1 | 9.5 | 10.0 | 10.5 | 11.5 | 6,001 |
| Ghana 2008 | 2.1 | 3.5 | 5.2 | 7.8 | 9.2 | 12.5 | 15.5 | 17.0 | 18.5 | 19.3 | 19.8 | 21.3 | 1,138 |
| Niger 2012 | 12.8 | 17.1 | 19.4 | 20.3 | 20.6 | 20.9 | 20.8 | 20.6 | 20.6 | 20.4 | 19.8 | 19.6 | 4,932 |
| Nigeria 2008 | 3.4 | 4.6 | 6.1 | 8.1 | 9.3 | 10.2 | 10.7 | 11.3 | 11.8 | 12.1 | 12.3 | 12.7 | 12,288 |
| Senegal 2010-2011 | 4.1 | 7.2 | 10.3 | 12.1 | 13.3 | 14.4 | 15.3 | 15.6 | 15.7 | 16.8 | 17.0 | 17.5 | 2,743 |
| Sierra Leone 2008 | 3.8 | 4.0 | 4.2 | 4.2 | 4.3 | 4.5 | 4.4 | 4.8 | 5.1 | 5.1 | 5.2 | 5.9 | 2,135 |
| East and South Africa |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Burundi 2010 | 4.5 | 5.8 | 7.5 | 8.7 | 9.6 | 10.8 | 11.2 | 12.1 | 12.9 | 13.5 | 14.3 | 15.3 | 3,252 |
| Comoros 2012 | 4.3 | 6.4 | 9.2 | 11.8 | 13.4 | 14.5 | 15.4 | 16.2 | 16.5 | 16.9 | 17.4 | 17.8 | 1,240 |
| Ethiopia 2011 | 2.6 | 8.2 | 11.5 | 12.7 | 14.2 | 15.2 | 16.1 | 16.6 | 17.2 | 17.4 | 17.7 | 18.6 | 4,344 |
| Kenya 2008-2009 | 8.7 | 16.6 | 22.7 | 27.1 | 28.6 | 30.8 | 32.7 | 34.1 | 35.1 | 35.8 | 35.4 | 35.8 | 2,426 |
| Lesotho 2009 | 13.9 | 20.6 | 24.5 | 27.5 | 30.1 | 32.9 | 35.3 | 36.9 | 38.5 | 39.7 | 40.4 | 41.8 | 1,579 |
| Madagascar 2008-2009 | 8.3 | 9.8 | 12.3 | 15.4 | 18.0 | 20.4 | 21.0 | 23.0 | 24.8 | 26.1 | 27.1 | 29.3 | 4,787 |
| Malawi 2010 | 7.5 | 13.2 | 18.1 | 24.5 | 29.2 | 33.3 | 38.0 | 40.1 | 42.3 | 43.3 | 44.1 | 45.8 | 8,162 |
| Mozambique 2011 | 1.3 | 2.3 | 3.4 | 4.7 | 5.5 | 6.0 | 6.7 | 7.3 | 7.9 | 8.1 | 8.1 | 8.7 | 4,493 |
| Namibia 2006-2007 | 20.2 | 24.3 | 28.7 | 32.0 | 35.3 | 36.8 | 38.7 | 39.9 | 41.3 | 42.1 | 42.7 | 44.0 | 2,104 |
| Rwanda 2010 | 7.5 | 14.0 | 19.1 | 22.7 | 24.8 | 27.0 | 29.3 | 30.9 | 32.9 | 35.1 | 36.7 | 39.2 | 3,612 |
| Tanzania 2010 | 7.8 | 11.8 | 15.2 | 19.0 | 21.1 | 23.0 | 25.1 | 26.4 | 27.6 | 28.3 | 28.8 | 30.3 | 3,169 |
| Uganda 2011 | 4.0 | 6.3 | 8.9 | 12.0 | 13.5 | 15.2 | 16.5 | 18.2 | 20.0 | 20.7 | 21.3 | 22.4 | 3,089 |
| Zambia 2007 | 18.5 | 21.8 | 25.5 | 30.4 | 34.2 | 38.0 | 41.2 | 42.1 | 43.6 | 44.5 | 44.6 | 45.0 | 2,617 |
| Zimbabwe 2010-2011 | 37.6 | 46.7 | 53.5 | 57.8 | 58.8 | 59.8 | 60.7 | 60.6 | 61.0 | 61.1 | 60.8 | 61.7 | 2,201 |
| Middle East and North Africa |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Egypt 2008 | 13.4 | 73.2 | 75.6 | 76.4 | 76.1 | 76.2 | 76.4 | 75.7 | 75.0 | 74.6 | 73.6 | 72.7 | 4,317 |
| Jordan 2012 | 27.9 | 75.9 | 78.6 | 79.0 | 78.0 | 77.6 | 75.5 | 74.0 | 72.2 | 71.2 | 70.1 | 68.7 | 4,214 |

(Continued...)

Table 3. - Continued

|  | Number of months postpartum |  |  |  |  |  |  |  |  |  |  |  | Number of births |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| South and Southeast Asia |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bangladesh 2011 | 2.2 | 23.2 | 31.3 | 39.3 | 42.4 | 46.1 | 50.3 | 52.6 | 54.5 | 56.5 | 57.8 | 59.3 | 3,279 |
| Cambodia 2010 | 2.5 | 5.0 | 8.4 | 14.3 | 19.2 | 24.2 | 30.2 | 33.2 | 36.3 | 37.6 | 39.1 | 41.4 | 3,348 |
| India 2005-2006 | 9.3 | 13.4 | 18.3 | 22.2 | 24.7 | 27.0 | 29.3 | 30.6 | 31.5 | 32.3 | 32.9 | 34.0 | 20,438 |
| Indonesia 2012 | 20.6 | 50.7 | 65.8 | 71.2 | 73.0 | 74.7 | 75.5 | 76.0 | 76.3 | 76.3 | 76.2 | 76.3 | 7,141 |
| Maldives 2009 | 15.1 | 18.4 | 22.4 | 26.5 | 29.1 | 31.9 | 33.0 | 33.8 | 34.1 | 34.2 | 34.6 | 35.9 | 1,557 |
| Nepal 2011 | 3.1 | 6.9 | 11.2 | 15.1 | 18.2 | 21.3 | 24.2 | 25.2 | 27.0 | 28.7 | 30.5 | 32.1 | 2,060 |
| Pakistan 2012-2013 | 9.6 | 22.9 | 29.0 | 31.7 | 32.7 | 33.1 | 34.1 | 33.8 | 33.6 | 32.9 | 32.3 | 32.9 | 4,592 |
| Timor-Leste 2009-2010 | 2.7 | 6.5 | 9.6 | 11.7 | 13.2 | 14.2 | 15.4 | 16.2 | 16.5 | 17.0 | 17.4 | 18.3 | 3,952 |
| Eastern Europe and Central Asia |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Albania 2008-2009 | 33.8 | 53.9 | 64.5 | 66.4 | 67.8 | 68.2 | 69.2 | 68.5 | 68.2 | 68.4 | 68.5 | 67.5 | 614 |
| Armenia 2010 | 24.8 | 38.3 | 49.3 | 53.5 | 56.0 | 57.1 | 57.7 | 58.9 | 59.3 | 59.4 | 59.0 | 58.7 | 605 |
| Azerbaijan 2006 | 24.1 | 32.6 | 41.1 | 44.2 | 46.8 | 47.5 | 46.5 | 46.4 | 46.2 | 45.9 | 45.0 | 44.2 | 929 |
| Kyrgyz Republic 2012 | 6.7 | 9.5 | 13.8 | 15.6 | 17.3 | 18.9 | 20.5 | 22.6 | 23.9 | 24.8 | 26.0 | 27.2 | 1,725 |
| Moldova 2005 | 52.7 | 62.2 | 72.2 | 72.4 | 72.9 | 73.6 | 71.6 | 71.8 | 71.6 | 71.2 | 71.3 | 70.9 | 674 |
| Tajikistan 2012 | 7.7 | 11.2 | 14.8 | 16.1 | 17.2 | 17.7 | 17.9 | 18.8 | 19.6 | 20.6 | 20.7 | 21.5 | 2,170 |
| Ukraine 2007 | 9.3 | 23.5 | 35.1 | 47.3 | 53.5 | 57.2 | 60.8 | 65.8 | 67.3 | 69.5 | 69.2 | 70.6 | 489 |
| Latin America and the Caribbean |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bolivia 2008 | 14.5 | 18.3 | 22.8 | 27.0 | 29.7 | 33.0 | 36.3 | 38.6 | 41.0 | 42.4 | 43.1 | 45.7 | 3,528 |
| Colombia 2010 | 30.8 | 46.9 | 60.7 | 66.8 | 69.1 | 71.0 | 71.9 | 72.5 | 72.9 | 72.2 | 72.5 | 72.9 | 7,153 |
| Guyana 2009 | 16.7 | 21.7 | 26.9 | 32.5 | 34.4 | 36.7 | 37.2 | 38.2 | 37.8 | 38.0 | 39.4 | 40.7 | 935 |
| Honduras 2011-2012 | 22.6 | 47.1 | 58.8 | 64.0 | 65.0 | 66.9 | 67.8 | 67.6 | 67.9 | 67.8 | 67.8 | 68.1 | 4,460 |
| Peru 2012 | 35.6 | 46.0 | 55.3 | 59.2 | 62.3 | 67.4 | 69.4 | 71.2 | 72.3 | 72.4 | 72.5 | 76.4 | 3,908 |

Figure 1 presents the evolution of family planning for seven countries that might be viewed as having typical patterns. The lower portion of the graph shows that Bangladesh, Ghana, and Benin have very low levels of family planning use in the first month postpartum. However, they have distinctly different results at 12 months. In Bangladesh family planning use grows to almost 60 percent by 12 months postpartum. In Ghana it grows modestly, and in Benin it is still at less than 10 percent at 12 months postpartum. Moving up the graph, the next country, Niger, starts with a moderate level of family planning use at one month postpartum, but then does not increase appreciably over the next 12 months. Next are Azerbaijan and Armenia, both with moderate levels of family planning use at one month postpartum. Azerbaijan then sees modest growth in family planning use over the next 12 months, while Armenia sees relatively brisk growth. Finally, in the top line in the graph, Moldova has strong family planning use in the first month postpartum, followed by strong increases up to a high level of use at 12 months.

Figure 1. Evolution of family use (any method) in the postpartum period for Armenia, Azerbaijan, Bangladesh, Benin, Ghana, Moldova, and Niger


Table 4 aligns each of the countries in Table 3 with the patterns illustrated in Figure 1. The majority of countries have less than 10 percent use of family planning at one month postpartum. By any reasonable measure, these countries are underperforming. About half of these countries make moderate gains in family planning use by 12 months postpartum. The countries that do not make progress are mostly in West Africa and are very poor. The countries with moderate progress are largely in Asia and East Africa. Bangladesh and Ukraine are the sole countries that move from very low levels of use at one month postpartum to high use by 12 months. The countries in the bottom two rows do not show any particular regional pattern, except that West African countries are largely missing from these categories. Niger, the exception, is a clear anomaly.

Table 4. Surveys categorized by levels of family planning use at one month and 12 months postpartum

|  | Use of any family <br> planning method at 12 <br> months postpartum <br> less than 20 percent | Use of any family planning <br> method at 12 months <br> postpartum between 20 <br> percent and 50 percent | Use of any family <br> planning method at 12 <br> months postpartum <br> greater than 50 percent |
| :--- | :--- | :--- | :--- |
| Use of any family planning <br> method at one month <br> postpartum less than 10 <br> percent | Benin, Burkina Faso, <br> Burundi, Comoros, <br> Ethiopia, Mozambique, | Ghana, India, Kenya, <br> Cambodia, Kyrgyz Republic, <br> Madagascar, Malawi, Nepal, | Bangladesh, Ukraine |
| Nigeria, Sierra Leone, |  |  |  |
| Senegal, Timor-Leste |  |  |  |$\quad$| Pakistan, Rwanda, Tajikistan, |
| :--- |
| Tanzania, Uganda |

Note: Countries indicated in bold type are the countries presented in Figure 1.

### 3.2. Family Planning Methods in the Postpartum Period

Table 5 presents the use of postpartum family planning disaggregated by method used. The results are presented such that each row sums to 100 percent. For purposes of comparison, the family planning method mix of all currently married women is presented for each country. Figure 2 presents three typical cases, which are discussed below.

Two major differences in the method mix for a given country are easily explained. First (see Niger, Figure 2), one would expect the level of use of the lactational amenorrhea method (LAM) to be much higher for postpartum women than for all currently married women because LAM is recommended only for postpartum women. Examples include Bolivia, Madagascar, Moldova, Nigeria, Sierra Leone, Tanzania, and Zambia.

Second (see India, Figure 2), the level of use of female sterilization is lower among postpartum women than among all currently married women. Examples include Colombia, Honduras, India, Nepal, Pakistan, and Zimbabwe. Sterilization builds prevalence in the population by steady accretion of acceptors. At any given time, sterilization acceptors are a relatively small proportion of all acceptors. Since postpartum family planning are acceptors by the common definition of family planning programs, sterilization will be a relatively low proportion of all postpartum family planning use. To a somewhat lesser extent the same is true of IUDs and implants, which after insertion are used for many years. Thus, in general, IUD use is less prevalent in the method mix among postpartum women than among all currently married women (e.g., Moldova and Jordan).

A third interesting case (see Peru, Figure 2) is that in a few countries (including Nepal as well as Peru) the level of injectable use is higher among postpartum method users than it is among all currently married family planning users.
Table 5. Postpartum family planning method mix and method mix among currently married women, 43 DHS surveys, 2005-2013

|  | Pill | IUD | Injectables | Diaphragm, foam or jelly | $\begin{gathered} \text { Male } \\ \text { condom } \end{gathered}$ | Female sterlization | Male sterilization | Implant | LAM | Female condom | $\begin{aligned} & \text { Other } \\ & \text { modern } \end{aligned}$ | Periodic abstinence | Withdrawal | $\begin{gathered} \text { Other } \\ \text { traditional } \end{gathered}$ | Any folkloric method | $\begin{gathered} \text { All } \\ \text { methods } \end{gathered}$ | Number of births or Number of currently married women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WEST AND CENTRAL AFRICA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Benin 2011-2012 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 16.2 | 2.9 | 17.1 | 0.6 | 13.9 | 0.0 | 0.0 | 7.4 | 11.4 | 0.0 | 0.0 | 20.6 | 5.8 | 4.2 |  | 100.0 | 4,913 |
| Currently married women | 10.2 | 3.9 | 15.6 | 0.0 | 14.1 | 0.8 | 0.0 | 7.8 | 3.9 | 0.0 | 4.7 | 22.7 | 6.3 | 0.0 | 10.2 | 100.0 | 11,680 |
| Burkina Faso 2010 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 25.2 | 1.2 | 30.5 | 0.0 | 12.3 | 0.6 | 0.0 | 18.4 | 1.4 | 0.0 | 0.0 | 9.7 | 0.2 | 0.4 |  | 100.0 | 6,001 |
| Currently married women | 19.9 | 1.9 | 38.5 | 0.0 | 9.9 | 1.2 | 0.0 | 21.1 | 0.6 | 0.0 | 0.0 | 6.2 | 0.6 | 0.0 | 0.0 | 100.0 | 13,563 |
| Ghana 2008 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 21.4 | 0.0 | 19.8 | 0.0 | 14.3 | 10.5 | 0.0 | 5.2 | 0.0 | 1.7 | 0.0 | 14.2 | 12.4 | 0.5 |  | 100.0 | 1,138 |
| Currently married women | 20.2 | 0.9 | 26.6 | 1.3 | 10.3 | 6.9 | 0.0 | 3.9 | 0.0 | 0.4 | 0.0 | 20.2 | 6.0 | 0.0 | 3.4 | 100.0 | 2,876 |
| Niger 2012 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 31.1 | 0.0 | 9.3 | 0.0 | 0.1 | 0.3 | 0.0 | 0.9 | 46.8 | 0.0 | 0.0 | 0.4 | 0.2 | 10.9 |  | 100.0 | 4,932 |
| Currently married women | 40.6 | 0.7 | 15.2 | 0.0 | 0.0 | 0.7 | 0.0 | 2.2 | 28.3 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 11.6 | 100.0 | 9,881 |
| Nigeria 2008 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 9.5 | 2.1 | 9.3 | 0.0 | 11.1 | 1.9 | 0.0 | 1.5 | 33.5 | 0.0 | 0.7 | 9.4 | 16.3 | 4.7 |  | 100.0 | 12,288 |
| Currently married women | 11.6 | 6.8 | 17.7 | 0.0 | 16.3 | 2.7 | 0.0 | 0.0 | 10.9 | 0.0 | 0.0 | 14.3 | 13.6 | 0.0 | 6.1 | 100.0 | 23,578 |
| Senegal 2010-2011 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 27.1 | 2.8 | 38.2 | 0.0 | 5.0 | 1.6 | 0.0 | 10.8 | 3.2 | 0.0 | 0.0 | 0.0 | 3.7 | 7.6 |  | 100.0 | 2,743 |
| Currently married women | 31.5 | 4.6 | 40.0 | 0.0 | 4.6 | 1.5 | 0.0 | 8.5 | 1.5 | 0.0 | 0.0 | 2.3 | 1.5 | 0.0 | 3.8 | 100.0 | 10,347 |
| Sierra Leone 2008 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 7.7 | 0.5 | 7.2 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 61.3 | 0.0 | 0.0 | 1.7 | 0.4 | 20.7 |  | 100.0 | 2,135 |
| Currently married women | 28.4 | 2.5 | 35.8 | 0.0 | 7.4 | 0.0 | 0.0 | 0.0 | 8.6 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 14.8 | 100.0 | 5,525 |
| EAST AND SOUTHERN AFRICA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Burundi 2010 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 9.7 | 2.2 | 59.8 | 0.0 | 3.3 | 1.8 | 0.0 | 1.2 | 5.7 | 0.0 | 0.0 | 6.0 | 10.3 | 0.0 |  | 100.0 | 3,252 |
| Currently married women | 11.0 | 12.3 | 47.5 | 0.0 | 4.6 | 2.7 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 8.7 | 10.5 | 0.0 | 0.0 | 100.0 | 5,421 |
| Comoros 2012 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 10.8 | 0.2 | 21.9 | 0.0 | 5.9 | 3.2 | 0.0 | 7.3 | 8.9 | 0.0 | 0.0 | 21.7 | 18.2 | 2.0 |  | 100.0 | 1,240 |
| Currently married women | 16.1 | 0.5 | 29.0 | 0.0 | 10.9 | 4.1 | 0.0 | 8.3 | 4.1 | 0.0 | 0.0 | 16.6 | 9.8 | 0.5 | 0.0 | 100.0 | 3,261 |
| Ethiopia 2011 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 10.0 | 0.1 | 79.7 | 0.0 | 0.4 | 0.7 | 0.0 | 4.7 | 0.0 | 0.0 | 0.0 | 2.7 | 0.1 | 1.7 |  | 100.0 | 4,344 |
| Currently married women | 7.3 | 1.0 | 72.7 | 0.0 | 0.7 | 1.7 | 0.0 | 11.9 | 0.0 | 0.0 | 0.0 | 3.1 | 1.0 | 0.0 | 0.3 | 100.0 | 10,287 |


| $\begin{array}{c}\text { Number of } \\ \text { births or } \\ \text { Number of } \\ \text { currently } \\ \text { married } \\ \text { women }\end{array}$ |
| :---: |
| 2,426 |
| 4,928 |
| 1,579 |
| 4,049 |
| 4,787 |
| 12,039 |
| 8,162 |
| 15,528 |
| 4,493 |
| 9,332 |
| 2,104 |
| 3,201 |
| 3,451 |
| 2,612 |
| 2,897 |
| 3,169 |
| 6,412 |
| 3,089 |
| 5,418 |

Kenya 2008-2009
$\begin{array}{llll}\text { Kerths in the postpartum period } & 16.8 & 0.8 & 58.2 \\ \text { Currently married women } & 15.8 & 3.5 & 47.5 \\ \text { Lesotho 2009 } & & & \end{array}$
$\begin{array}{llll}\text { Births in the postpartum period } & 16.8 & 0.8 & 58.2 \\ \text { Currently married women } & 15.8 & 3.5 & 47.5 \\ \text { Lesotho 2009 }\end{array}$ $\begin{array}{lllll}\text { Births in the postpartum period } & 0.9 & 0.0 & 47.9\end{array}$ $\begin{array}{lllll}\text { Currently married women } & & 26.5 & 4.0 & 41.0\end{array}$ Madagascar 2008-09 $\begin{array}{lrrr}\text { Births in the postpartum period } & 7.1 & 0.4 & 17.6 \\ \text { Currently married women } & 15.1 & 1.0 & 45.0 \\ \begin{array}{lrrl}\text { Malawi 2010 }\end{array} \\ \begin{array}{lrl}\text { Births in the postpartum period }\end{array} & 5.7 & 0.1 & 62.4\end{array}$ $\begin{array}{lrrr}\text { Births in the postpartum period } & 7.1 & 0.4 & 17.6 \\ \text { Currently married women } & 15.1 & 1.0 & 45.0 \\ \begin{array}{lrrl}\text { Malawi 2010 }\end{array} \\ \begin{array}{lrl}\text { Births in the postpartum period }\end{array} & 5.7 & 0.1 & 62.4\end{array}$ $\begin{array}{lrrr}\text { Births in the postpartum period } & 7.1 & 0.4 & 17.6 \\ \text { Currently married women } & 15.1 & 1.0 & 45.0 \\ \begin{array}{lrrl}\text { Malawi 2010 }\end{array} \\ \begin{array}{lrll}\text { Births in the postpartum period } & 5.7 & 0.1 & 62.4\end{array}\end{array}$ $\begin{array}{llll}\text { Births in the postpartum period } & 5.7 & 0.1 & 62.4 \\ \text { Currently married women } & 5.4 & 0.7 & 56.1\end{array}$ Mozambique 2011
$\begin{array}{llllll}\text { Mozambique } 2011 \\ \text { Births in the postpartum period } & 38.5 & 0.9 & 37.1\end{array}$ $\begin{array}{lllll}\text { Currently married women } & 38.8 & 0.9 & 44.0\end{array}$ $\begin{array}{lllll}\text { Births in the postpartum period } & 14.0 & 0.1 & 51.0\end{array}$ $\begin{array}{lllll}\text { Currently married women } & 15.6 & 2.5 & 39.6\end{array}$ Rwanda 2010
$\begin{array}{lllll}\text { Births in the postpartum period } & 17.7 & 1.1 & 53.4\end{array}$ $\begin{array}{lllll}\text { Currently married women } & 13.8 & 1.0 & 51.1\end{array}$ Tanzania 2010
$\begin{array}{lllll}\text { Births in the postpartum period } & 13.5 & 0.0 & 22.5\end{array}$
 $\begin{array}{lllll}\text { Births in the postpartum period } & 14.8 & 0.2 & 46.2\end{array}$ $\begin{array}{lllll}\text { Currently married women } & 9.6 & 1.7 & 46.8\end{array}$ Zambia 2007
$\begin{array}{lllll}\text { Births in the postpartum period } & 12.0 & 0.0 & 7.5\end{array}$ Currently married women Zimbabwe 2010-2011

Births in the postpartum perio Births in the postpartum period
Currently married women
Table 5. - Continued

|  | Pill | IUD | Injectables | Diaphragm, foam or jelly | $\begin{gathered} \text { Male } \\ \text { condom } \end{gathered}$ | Female sterlization | Male sterilization | Implant | LAM | Female condom | Other modern | Periodic abstinence | Withdrawal | Other traditional | Any folkloric method | $\begin{gathered} \text { All } \\ \text { methods } \end{gathered}$ | Number of births or Number of currently married women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MIDDLE EAST AND NORTH AFRICA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Egypt 2008 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 21.8 | 52.1 | 12.1 | 0.0 | 0.9 | 1.0 | 0.0 | 0.5 | 0.0 | 0.0 | 10.8 | 0.4 | 0.3 | 0.0 |  | 100.0 | 4,317 |
| Currently married women | 19.8 | 60.0 | 12.3 | 0.0 | 1.2 | 1.7 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.7 | 0.3 | 3.3 | 0.0 | 100.0 | 15,396 |
| Jordan 2012 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 17.0 | 17.7 | 2.1 | 0.0 | 11.5 | 1.2 | 0.0 | 0.3 | 21.3 | 0.0 | 0.0 | 5.2 | 23.2 | 0.5 |  | 100.0 | 4,214 |
| Currently married women | 13.3 | 34.9 | 1.5 | 0.0 | 13.0 | 3.6 | 0.0 | 0.5 | 2.1 | 0.0 | 0.3 | 5.7 | 23.4 | 0.0 | 1.6 | 100.0 | 10,801 |
| EASTERN EUROPE AND CENTRAL ASIA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Albania 2008-2009 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 3.3 | 0.0 | 0.6 | 0.0 | 5.9 | 3.8 | 0.0 | 0.0 | 7.3 | 0.0 | 0.0 | 1.7 | 77.4 | 0.0 |  | 100.0 | 614 |
| Currently married women | 2.3 | 1.3 | 1.0 | 0.0 | 5.8 | 4.3 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 1.2 | 83.5 | 0.0 | 0.0 | 100.0 | 5,001 |
| Armenia 2010 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 1.2 | 6.8 | 0.0 | 0.0 | 26.3 | 0.2 | 0.0 | 0.0 | 11.5 | 0.0 | 0.0 | 4.3 | 49.0 | 0.8 |  | 100.0 | 605 |
| Currently married women | 2.7 | 17.5 | 0.0 | 0.2 | 26.6 | 0.4 | 0.0 | 0.0 | 1.5 | 0.0 | 0.7 | 4.4 | 44.6 | 0.0 | 1.5 | 100.0 | 3,626 |
| Azerbaijan 2006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 4.0 | 3.1 | 0.0 | 3.1 | 4.0 | 0.0 | 0.0 | 0.0 | 17.3 | 0.0 | 0.0 | 3.4 | 65.1 | 0.0 |  | 100.0 | 929 |
| Currently married women | 2.2 | 18.0 | 0.0 | 0.4 | 4.3 | 0.8 | 0.0 | 0.0 | 2.2 | 0.0 | 0.0 | 7.8 | 63.7 | 0.0 | 0.6 | 100.0 | 5,269 |
| Kyrgyz Republic 2012 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 2.2 | 43.1 | 0.5 | 0.0 | 31.1 | 3.3 | 0.0 | 0.0 | 8.8 | 0.0 | 0.0 | 0.8 | 10.3 | 0.0 |  | 100.0 | 1,725 |
| Currently married women | 4.1 | 61.0 | 1.4 | 0.0 | 21.3 | 4.4 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.6 | 6.4 | 0.0 | 0.3 | 100.0 | 5,256 |
| Moldova 2005 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 2.5 | 15.0 | 0.0 | 1.4 | 13.5 | 2.0 | 0.0 | 0.0 | 36.4 | 0.0 | 0.0 | 3.7 | 25.2 | 0.2 |  | 100.0 | 674 |
| Currently married women | 5.3 | 37.1 | 0.1 | 0.0 | 10.9 | 6.9 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 5.2 | 28.9 | 0.0 | 1.3 | 97.6 | 4,937 |
| Tajikistan 2012 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 9.2 | 52.5 | 4.3 | 0.0 | 15.2 | 2.1 | 0.0 | 0.0 | 10.3 | 0.0 | 0.0 | 0.0 | 6.2 | 0.2 |  | 100.0 | 2,170 |
| Currently married women | 8.3 | 66.8 | 7.2 | 0.0 | 7.9 | 2.2 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.4 | 6.9 | 0.0 | 0.0 | 100.0 | 6,504 |
| Ukraine 2007 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 4.3 | 14.2 | 0.0 | 0.0 | 48.3 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.6 | 21.0 | 1.9 |  | 100.0 | 489 |
| Currently married women | 7.2 | 26.6 | 0.0 | 0.8 | 35.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.8 | 15.5 | 0.0 | 2.4 | 100.0 | 4,116 |


|  | Pill | IUD | Injectables | Diaphragm, foam or jelly | Male condom | Female sterlization | Male sterilization | Implant | LAM | Female condom | Other modern | Periodic abstinence | Withdrawal | Other traditional | Any folkloric method | $\begin{gathered} \text { All } \\ \text { methods } \end{gathered}$ | Number of births or Number of currently married women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SOUTH AND SOUTHEAST ASIA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bangladesh 2011 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 54.5 | 0.4 | 16.1 | 0.0 | 10.0 | 5.4 | 1.5 | 0.7 | 0.0 | 0.0 | 0.0 | 8.3 | 2.8 | 0.4 |  | 100.0 | 3,279 |
| Currently married women | 44.5 | 1.1 | 18.3 | 0.0 | 9.0 | 8.2 | 2.0 | 1.8 | 0.0 | 0.0 | 0.0 | 11.3 | 3.1 | 0.0 | 0.7 | 100.0 | 16,635 |
| Cambodia 2010 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 30.6 | 5.5 | 21.6 | 0.0 | 3.2 | 7.5 | 0.0 | 0.9 | 0.1 | 0.0 | 0.0 | 7.2 | 23.4 | 0.0 |  | 100.0 | 3,348 |
| Currently married women | 31.3 | 6.1 | 20.6 | 0.0 | 5.3 | 4.8 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 7.7 | 23.2 | 0.0 | 0.2 | 100.0 | 11,626 |
| India 2005-06 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 7.0 | 4.5 | 0.3 | 0.0 | 16.2 | 51.6 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 13.4 | 5.9 | 0.7 |  | 100.0 | 20,438 |
| Currently married women | 5.5 | 3.0 | 0.2 | 0.0 | 9.3 | 66.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 8.7 | 4.5 | 0.0 | 0.5 | 100.0 | 93,089 |
| Indonesia 2012 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 12.5 | 4.0 | 69.0 | 0.0 | 3.1 | 2.8 | 0.0 | 3.2 | 0.5 | 0.0 | 0.0 | 1.6 | 2.7 | 0.5 |  | 100.0 | 7,141 |
| Currently married women | 22.0 | 6.3 | 51.5 | 0.0 | 2.9 | 5.2 | 0.3 | 5.3 | 0.0 | 0.0 | 0.0 | 2.1 | 3.7 | 0.0 | 0.6 | 100.0 | 33,465 |
| Maldives 2009 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 16.3 | 1.9 | 4.0 | 0.0 | 25.3 | 22.1 | 0.3 | 1.6 | 0.0 | 0.0 | 0.0 | 11.9 | 16.6 | 0.0 |  | 100.0 | 1,557 |
| Currently married women | 13.3 | 2.3 | 3.5 | 0.0 | 26.8 | 29.1 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 9.8 | 12.1 | 0.0 | 0.3 | 100.0 | 6,500 |
| Nepal 2011 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 8.4 | 1.2 | 34.8 | 0.0 | 19.2 | 19.5 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 11.4 | 0.0 |  | 100.0 | 2,060 |
| Currently married women | 8.3 | 2.6 | 18.5 | 0.0 | 8.7 | 30.6 | 15.7 | 2.4 | 0.0 | 0.0 | 0.0 | 2.2 | 10.9 | 0.0 | 0.0 | 100.0 | 9,608 |
| Pakistan 2012-13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 5.3 | 3.6 | 8.4 | 0.0 | 29.3 | 10.0 | 0.0 | 0.2 | 15.8 | 0.0 | 0.0 | 2.4 | 24.7 | 0.3 |  | 100.0 | 4,592 |
| Currently married women | 4.5 | 6.5 | 7.9 | 0.0 | 24.8 | 24.5 | 0.8 | 0.3 | 4.2 | 0.0 | 0.3 | 2.0 | 23.9 | 0.0 | 0.3 | 100.0 | 12,937 |
| Timor-Leste 2009-10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 6.2 | 5.4 | 71.3 | 0.0 | 2.7 | 3.6 | 0.0 | 2.8 | 2.7 | 0.0 | 0.0 | 2.1 | 1.7 | 1.5 |  | 100.0 | 3,952 |
| Currently married women | 7.7 | 5.9 | 70.7 | 0.0 | 0.9 | 3.6 | 0.0 | 3.6 | 0.0 | 0.0 | 1.8 | 2.7 | 1.8 | 0.0 | 1.4 | 100.0 | 7,906 |
| LATIN AMERICA AND THE CARIBBEAN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bolivia 2008 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 4.6 | 9.9 | 13.7 | 0.1 | 5.4 | 12.9 | 0.0 | 0.0 | 26.6 | 0.0 | 0.0 | 19.1 | 7.7 | 0.1 |  | 100.0 | 3,528 |
| Currently married women | 5.5 | 13.9 | 18.7 | 0.2 | 6.6 | 10.7 | 0.2 | 0.0 | 1.3 | 0.0 | 0.0 | 34.4 | 8.1 | 0.2 | 0.3 | 100.0 | 10,162 |
| Colombia 2010 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 9.8 | 6.5 | 30.2 | 0.1 | 12.7 | 26.1 | 1.5 | 3.1 | 0.0 | 2.8 | 0.0 | 1.6 | 4.9 | 0.8 |  | 100.0 | 7,153 |
| Currently married women | 9.6 | 9.5 | 11.6 | 0.1 | 8.8 | 44.1 | 4.3 | 3.9 | 0.3 | 0.0 | 0.0 | 2.9 | 4.4 | 0.0 | 0.4 | 100.0 | 26,247 |

Table 5. - Continued

|  | Pill | IUD | Injectables | Diaphragm, foam or jelly | Male condom | Female sterlization | Male sterilization | Implant | LAM | Female condom | Other modern | Periodic abstinence | Withdrawal | Other traditional | Any folkloric method | All methods | Number of births or Number of currently married women |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Guyana 2009 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 20.0 | 12.8 | 12.8 | 1.1 | 40.4 | 5.0 | 0.0 | 0.1 | 3.5 | 0.1 | 0.0 | 1.1 | 2.9 | 0.2 |  | 100.0 | 935 |
| Currently married women | 21.7 | 17.2 | 11.3 | 0.0 | 30.4 | 12.5 | 0.0 | 0.5 | 0.5 | 0.0 | 0.0 | 1.7 | 3.3 | 0.0 | 0.9 | 100.0 | 2,920 |
| Honduras 2011-12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 11.0 | 9.2 | 44.6 | 0.0 | 6.4 | 18.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 1.7 | 7.4 | 0.4 |  | 100.0 | 4,460 |
| Currently married women | 16.3 | 9.3 | 24.8 | 0.0 | 5.9 | 30.5 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 8.8 | 0.1 | 0.1 | 100.0 | 12,847 |
| Peru 2012 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Births in the postpartum period | 5.9 | 1.9 | 50.0 | 0.1 | 8.3 | 7.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.2 | 6.6 | 9.2 | 6.4 |  | 100.0 | 3,908 |
| Currently married women | 12.5 | 3.7 | 24.1 | 0.5 | 16.3 | 10.7 | 0.7 | 0.0 | 0.1 | 0.0 | 0.0 | 19.9 | 10.1 | 0.0 | 1.5 | 100.0 | 13,624 |

Figure 2. Use of pills, injectables, female sterilization, LAM, and periodic abstinence as a percentage of all family planning use for postpartum women and currently married women, Niger 2012, India 2005-2006, and Peru 2012 ${ }^{2}$


### 3.3. Differences in Postpartum Family Planning Use by Demographic Factors, Socioeconomic Factors, Fertility Preferences, and Use of Maternal Health Services

Prevalence of postpartum family planning will vary according to background characteristics of women and use of health services. The following sections show differences in postpartum family planning use according to demographic characteristics, socioeconomic characteristics, fertility preferences, and use of key maternal health services.

### 3.3.1. Demographic characteristics

Table 6 presents postpartum family planning use disaggregated by the age of the mother at the birth of the child, birth order of the child, and number of children born to the woman who are under age 5 (including the newly born child).

[^1]In most cases there are not large differentials in postpartum family planning based on the age of the mother at birth. In a few countries women age 25-34 have higher levels of postpartum family planning use than either younger or older women. Guyana, Kenya, Lesotho, and Namibia are notable examples. This strong pattern was partially replicated in Albania, Armenia, Azerbaijan, and Moldova, but there were insufficient observations to present results for the oldest group of women.

Parity is expected to be positively related to family planning use in general. At higher levels of parity, women are closer to their ideal family size and therefore perhaps more likely to use family planning. Presumably, this motive will operate for postpartum family planning specifically, as well as for family planning in general. However, only in the Maldives is the level of postpartum family planning use greater among women with two to four children relative to women with one child or no children, and for women with five or more children relative to women with two to four children (taking a 5 percent differential as a programmatically significant difference). In contrast, there are many cases where family planning use among middle parity women is more prevalent than among women with either fewer or more births. Examples include Colombia, Honduras, Lesotho, and Namibia.

The two columns in Table 6 on number of children under age 5 show that in most cases women with one child under age 5 use postpartum family planning more frequently than women with two or more children under age 5 .

Table 6. Postpartum family planning use (any method) by age of mother at birth, birth order, and number of children under age 5, 43 DHS surveys, 2005-2013

|  | Age of mother at birth |  |  | Birth order of child |  |  | Number of children under age 5 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10-14 | 25-34 | 35-49 | 0-1 | 2-4 | 5+ | 1 | 2 |
| West and Central Africa |  |  |  |  |  |  |  |  |
| Benin 2011-2012 | 3.5 | 3.8 | 3.3 | 4.1 | 3.5 | 2.5 | 3.9 | 2.4 |
| Burkina Faso 2010 | 3.5 | 3.8 | 3.1 | 4.0 | 3.8 | 2.5 | 4.0 | 1.7 |
| Ghana 2008 | 4.1 | 5.9 | 5.6 | 3.6 | 7.7 | 3.8 | 5.7 | 2.8 |
| Niger 2012 | 16.5 | 21.0 | 23.6 | 19.2 | 19.2 | 19.7 | 20.5 | 16.4 |
| Nigeria 2008 | 4.4 | 7.8 | 5.9 | 6.8 | 6.8 | 4.1 | 6.1 | 6.3 |
| Senegal 2010-2011 | 7.8 | 11.1 | 13.8 | 9.6 | 11.7 | 9.3 | 10.5 | 9.5 |
| Sierra Leone 2008 | 4.6 | 3.8 | 4.0 | 4.9 | 3.7 | 3.5 | 4.1 | 4.4 |
| East and Southern Africa |  |  |  |  |  |  |  |  |
| Burundi 2010 | 8.2 | 8.0 | 5.0 | 8.6 | 8.0 | 4.7 | 8.4 | 4.6 |
| Comoros 2012 | 8.3 | 9.6 | 10.1 | 9.9 | 8.8 | 8.3 | 11.2 | 4.1 |
| Ethiopia 2011 | 14.3 | 11.0 | 4.3 | 17.5 | 9.4 | 6.3 | 13.1 | 6.0 |
| Kenya 2008-2009 | 21.1 | 26.9 | 14.8 | 26.2 | 23.6 | 12.9 | 24.7 | 15.9 |
| Lesotho 2009 | 20.2 | 32.1 | 20.0 | 23.9 | 29.4 | 11.2 | 26.9 | 8.6 |
| Madagascar 2008-2009 | 11.8 | 13.6 | 10.5 | 13.2 | 12.5 | 10.2 | 14.0 | 6.2 |
| Malawi 2010 | 18.1 | 16.8 | 21.9 | 17.5 | 18.0 | 19.4 | 19.2 | 13.1 |
| Mozambique 2011 | 2.7 | 4.2 | 3.4 | 3.0 | 3.6 | 3.7 | 3.8 | 1.9 |
| Namibia 2006-2007 | 24.2 | 35.9 | 22.0 | 26.9 | 34.3 | 20.8 | 29.9 | 22.5 |
| Rwanda 2010 | 20.3 | 19.6 | 15.3 | 21.0 | 20.1 | 12.8 | 21.7 | 7.5 |
| Tanzania 2010 | 13.4 | 16.1 | 17.8 | 14.1 | 16.8 | 13.9 | 17.0 | 8.9 |
| Uganda 2011 | 8.3 | 9.5 | 9.1 | 8.4 | 9.7 | 8.4 | 10.2 | 5.6 |
| Zambia 2007 | 24.7 | 25.9 | 26.8 | 23.4 | 26.2 | 27.5 | 24.7 | 27.8 |

Table 6. - Continued

|  | Age of mother at birth |  |  | Birth order of child |  |  | Number of children under age 5 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10-14 | 25-34 | 35-49 | 0-1 | 2-4 | 5+ | 1 | 2 |
| Zimbabwe 2010-2011 | 52.4 | 56.6 | 47.1 | 55.1 | 53.2 | 41.2 | 55.2 | 42.7 |
| Middle East and North Africa |  |  |  |  |  |  |  |  |
| Egypt 2008 | 72.6 | 78.2 | 76.9 | 73.4 | 79.9 | 72.5 | 80.3 | 55.5 |
| Jordan 2012 | 79.8 | 77.5 | 80.0 | 74.1 | 81.7 | 83.4 | 84.6 | 61.2 |
| South and Southeast Asia |  |  |  |  |  |  |  |  |
| Bangladesh 2011 | 31.2 | 31.2 | 33.2 | 31.1 | 32.5 | 24.8 | 32.7 | 19.4 |
| Cambodia 2010 | 7.5 | 8.2 | 11.6 | 7.9 | 9.2 | 8.8 | 8.7 | 6.2 |
| India 2005-2006 | 16.8 | 21.3 | 15.6 | 17.1 | 21.7 | 13.9 | 21.0 | 8.1 |
| Indonesia 2012 | 68.7 | 66.2 | 58.3 | 67.4 | 64.2 | 45.7 | 68.5 | 40.9 |
| Maldives 2009 | 18.9 | 22.5 | 33.7 | 18.4 | 28.0 | 40.4 | 23.1 | 16.2 |
| Nepal 2011 | 12.5 | 10.1 | 6.8 | 10.3 | 14.5 | 5.3 | 13.0 | 3.0 |
| Pakistan 2012-2013 | 24.3 | 32.9 | 28.9 | 24.5 | 33.4 | 31.0 | 33.0 | 19.6 |
| Timor-Leste 2009-2010 | 8.1 | 10.0 | 10.8 | 7.6 | 10.4 | 10.9 | 12.7 | 1.9 |
| Eastern Europe and Central Asia |  |  |  |  |  |  |  |  |
| Albania 2008-2009 | 61.1 | 67.2 | * | 62.6 | 68.8 | * | 66.7 | * |
| Armenia 2010 | 45.8 | 55.3 | * | 49.2 | * | * | 52.3 | * |
| Azerbaijan 2006 | 35.0 | 50.4 | * | 37.3 | 53.9 | * | 45.8 | 26.5 |
| Kyrgyz Republic 2012 | 13.3 | 14.8 | 11.6 | 12.6 | 16.0 | * | 14.9 | 9.7 |
| Moldova 2005 | 68.5 | 76.5 | * | 71.5 | * | * | 74.2 | * |
| Tajikistan 2012 | 10.6 | 18.7 | 21.4 | 10.4 | 21.6 | 20.2 | 17.8 | 6.2 |
| Ukraine 2007 | 36.9 | 33.1 | * | 34.9 | * | * | 36.2 | * |
| Latin America and the Caribbean |  |  |  |  |  |  |  |  |
| Bolivia 2008 | 21.5 | 24.6 | 21.9 | 23.8 | 24.2 | 16.8 | 24.7 | 15.0 |
| Colombia 2010 | 55.9 | 65.8 | 66.9 | 59.0 | 67.1 | 53.4 | 63.4 | 40.5 |
| Guyana 2009 | 25.4 | 32.1 | 17.3 | 28.2 | 27.6 | 15.1 | 30.0 | 14.0 |
| Honduras 2011-2012 | 55.1 | 64.1 | 59.1 | 57.2 | 64.5 | 49.8 | 61.1 | 42.8 |
| Peru 2014 | 54.8 | 56.7 | 52.6 | 55.6 | 58.4 | 39.7 | 56.1 | 48.1 |

Note: Postpartum family planning evaluated at three months after birth. Universe is all births 4 to 37 months preceding the survey.
Asterisk (*) indicates that fewer than 100 observations are available for tabulation.

### 3.3.2. Socioeconomic characteristics

Table 7 presents postpartum family planning use disaggregated by location and wealth status as measured by DHS household wealth quintiles ${ }^{3}$ and women's education status. In contrast to the indicators in the previous table that were measured at the time of the child's birth, the indicators in this table were assessed at the time of the interview. These variables pose some conceptual issues. It is likely that some of the women will have moved from rural areas to urban areas, have improved or diminished their economic situation relative to other women in the sample, or improved their educational status since the birth of the

[^2]child. In general, migration would have been from rural to urban areas, although migration in the other direction is possible. Overall, changes in economic status as measured by the wealth index would be a net zero, since this index is a relative measure. An improvement in status for one household would be accompanied by a relative decline for at least one other household. Educational status can only improve and is in fact an area for potential concern. Many of the younger women in the sample might still be in school and could have moved up a level in educational status since the child's birth. Alternatively, the effect of education on family planning use may be more related to educational aspirations or abilities than to actual attainment. The educational status at the time of the interview would be the most recent measure of these aspirations or abilities.

The usual expectation is that family planning use will be greater in urban areas than rural areas. In Table 7 the results follow this expectation, except for Azerbaijan, Cambodia, Moldova, Maldives, and Zambia. Overall levels of family planning use among all currently married women in Azerbaijan, Cambodia, Moldova, and Maldives are approximately the same in both urban and rural areas. In Zambia the higher level of use of postpartum family planning in rural areas may have something to do with the very high levels of use for LAM.

Concerning wealth status, the usual expectation is that women from wealthier households will be more likely to use family planning than women from poorer households. It has also been observed for currently married women that the differences in family planning use by wealth status are less among countries with relatively high levels of family planning use (Winfrey et al. 2014). In high-prevalence countries including Bangladesh and Indonesia, differences in family planning use by wealth status have been largely eliminated ${ }^{4}$ (NIPORT et al. 2011; Stati (Badan Pusat Statistik—BPS) et al. 2013). Most of the recent increases in family planning in Bangladesh and Indonesia have tended to be more rapid at lower socioeconomic levels, bringing them closer to the wealthier groups.

For most countries we observe the expected pattern of more postpartum family planning use in the wealthier quintiles. Extreme examples of disparity include Bolivia, Ethiopia, and Kenya. Notable exceptions are the East European and Central Asian countries in our sample. In most of these countries maternal health care services are near universal, meaning that women have equal access to postpartum family planning counseling and services. Also in this region, given the relatively low rates of fertility in these countries there is a near universal demand for small families. Other exceptions are the countries where the levels of postpartum family planning use are low and the absolute disparities are low (e.g., Benin, Burkina Faso, Ghana, and Sierra Leone).

For many of the countries with high or moderately high levels of family planning use, the differences in postpartum family planning are quite large by wealth status-in contrast to what is seen for family planning use among all women or all currently married women. At the latest survey there was virtually no inequality in use of family planning across wealth quintiles in Bangladesh and Indonesia. The results in Table 7 show that there are notable differences in postpartum family planning use across the wealth quintiles for these two countries. Figure 3 makes the difference by wealth quintile clear.

For education, again the expectation is that family planning use will be greater among more highly educated women. This pattern is followed by most of the countries; however, there are a few exceptions. The Eastern European and Central Asian countries either do not follow the pattern or have too few observations for some of the educational status categories to allow analysis. Cambodia and Zambia are also exceptions to the general pattern. Again, for Zambia, the high level of use of LAM accounts for the anomaly.

[^3]Table 7. Postpartum family planning use (any method) by urban-rural location, wealth status, and educational attainment, 43 DHS surveys, 2005-2013

|  | Location |  | Wealth status |  |  |  |  | Highest level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Poorest | Second | Third | Fourth | Richest | None | Primary | Secondary | Higher |
| West and Central Africa |  |  |  |  |  |  |  |  |  |  |  |
| Benin 2011-2012 | 5.2 | 2.5 | 1.6 | 1.9 | 2.6 | 4.6 | 7.3 | 2.3 | 6.0 | 7.9 | * |
| Burkina Faso 2010 | 9.3 | 2.3 | 1.9 | 1.6 | 2.3 | 3.5 | 10.0 | 2.6 | 5.4 | 14.5 | * |
| Ghana 2008 | 5.7 | 4.9 | 2.3 | 4.8 | 5.2 | 6.7 | 9.1 | 2.4 | 5.3 | 7.4 | * |
| Niger 2012 | 40.9 | 15.9 | 15.9 | 13.8 | 15.2 | 18.1 | 35.3 | 17.1 | 27.2 | 39.2 | * |
| Nigeria 2008 | 11.0 | 3.5 | 1.2 | 2.0 | 4.8 | 9.4 | 16.2 | 1.4 | 6.5 | 11.5 | 19.2 |
| Senegal 2010-2011 | 19.9 | 5.2 | 3.2 | 3.4 | 9.9 | 13.8 | 25.8 | 6.9 | 14.9 | 19.8 | * |
| Sierra Leone 2008 | 5.1 | 3.8 | 4.8 | 2.4 | 3.1 | 5.7 | 5.1 | 3.3 | 8.5 | 5.6 | * |
| East and Southern Africa |  |  |  |  |  |  |  |  |  |  |  |
| Burundi 2010 | 13.1 | 7.0 | 5.8 | 5.7 | 9.3 | 6.5 | 10.9 | 5.5 | 8.7 | 16.6 | * |
| Comoros 2012 | 15.0 | 7.1 | 4.8 | 12.5 | 9.3 | 10.6 | 9.2 | 7.1 | 6.1 | 13.3 | * |
| Ethiopia 2011 | 39.2 | 7.1 | 1.8 | 7.3 | 6.8 | 12.6 | 37.0 | 8.4 | 13.0 | 55.7 | * |
| Kenya 2008-2009 | 34.0 | 20.1 | 9.7 | 21.3 | 23.9 | 27.8 | 35.0 | 4.9 | 21.4 | 32.8 | 44.8 |
| Lesotho 2009 | 40.5 | 19.3 | 13.3 | 15.3 | 21.7 | 29.8 | 44.6 | * | 16.8 | 33.2 | * |
| Madagascar 2008-2009 | 26.0 | 10.7 | 4.9 | 7.2 | 12.4 | 17.8 | 26.9 | 4.5 | 12.2 | 21.4 | $*$ |
| Malawi 2010 | 25.6 | 16.9 | 15.0 | 16.9 | 19.6 | 18.2 | 21.9 | 16.0 | 17.2 | 24.3 | * |
| Mozambique 2011 | 5.9 | 2.4 | 2.0 | 2.1 | 2.3 | 3.8 | 8.0 | 2.4 | 3.1 | 7.2 | * |
| Namibia 2006-2007 | 38.4 | 21.9 | 17.1 | 19.8 | 27.6 | 38.8 | 43.4 | 16.5 | 20.1 | 34.1 | * |
| Rwanda 2010 | 28.1 | 17.9 | 13.9 | 16.8 | 17.8 | 22.1 | 28.2 | 14.8 | 18.9 | 29.2 | $*$ |
| Tanzania 2010 | 21.6 | 13.5 | 8.9 | 12.4 | 16.5 | 16.5 | 24.6 | 9.3 | 16.5 | 23.5 | * |
| Uganda 2011 | 17.9 | 7.5 | 3.3 | 5.1 | 7.3 | 12.9 | 18.1 | 3.6 | 7.4 | 15.2 | 22.2 |
| Zambia 2007 | 24.8 | 25.8 | 33.7 | 22.5 | 19.9 | 24.2 | 26.7 | 24.9 | 25.1 | 26.5 | * |
| Zimbabwe 2010-2011 | 59.2 | 50.9 | 41.3 | 54.4 | 55.5 | 57.8 | 60.4 | * | 45.8 | 56.5 | * |
| Middle East and North Africa |  |  |  |  |  |  |  |  |  |  |  |
| Egypt 2008 | 79.5 | 73.1 | 66.7 | 72.4 | 77.2 | 79.4 | 82.6 | 68.5 | 78.5 | 77.6 | 79.6 |
| Jordan 2012 | 78.8 | 77.8 | 74.9 | 78.5 | 78.9 | 82.3 | 79.9 | 70.4 | 70.2 | 78.1 | 81.9 |

Table 7. - Continued

|  | Location |  | Wealth status |  |  |  |  | Highest level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Poorest | Second | Third | Fourth | Richest | None | Primary | Secondary | Higher |
| South and Southeast Asia |  |  |  |  |  |  |  |  |  |  |  |
| Bangladesh 2011 | 37.8 | 29.3 | 27.5 | 30.1 | 32.1 | 30.2 | 37.6 | 28.1 | 31.7 | 30.7 | 40.5 |
| Cambodia 2010 | 7.6 | 8.5 | 6.4 | 7.8 | 8.8 | 11.2 | 8.9 | 9.8 | 7.8 | 8.8 | * |
| India 2005-2006 | 25.6 | 15.8 | 11.6 | 16.0 | 18.9 | 22.3 | 27.8 | 13.4 | 19.3 | 23.8 | 29.3 |
| Indonesia 2012 | 71.9 | 59.9 | 52.3 | 65.6 | 66.4 | 72.7 | 73.6 | 30.4 | 62.5 | 69.0 | 65.7 |
| Maldives 2009 | 19.3 | 23.7 | 21.7 | 24.1 | 23.4 | 24.5 | 18.0 | 26.5 | 25.4 | 20.5 | * |
| Nepal 2011 | 18.5 | 10.5 | 7.0 | 10.0 | 10.6 | 14.2 | 18.6 | 9.6 | 11.4 | 13.2 | 14.9 |
| Pakistan 2012-2013 | 40.7 | 24.3 | 16.1 | 25.0 | 30.0 | 36.0 | 44.2 | 21.5 | 31.1 | 42.8 | 44.1 |
| Timor-Leste 2009-2010 | 16.5 | 7.4 | 4.6 | 5.7 | 8.1 | 10.8 | 19.6 | 6.7 | 9.4 | 11.6 | * |
| Eastern Europe and Central Asia |  |  |  |  |  |  |  |  |  |  |  |
| Albania 2008-2009 | 72.0 | 60.2 | 61.5 | 68.9 | 62.3 | 58.0 | * | * | 63.9 | 63.2 | * |
| Armenia 2010 | 56.2 | 38.6 | 41.3 | 32.1 | 57.2 | 53.0 | * | * | * | 47.0 | 52.8 |
| Azerbaijan 2006 | 39.7 | 42.6 | 40.8 | 38.2 | 40.3 | 35.0 | 53.1 | * | * | 39.8 | * |
| Kyrgyz Republic 2012 | 16.8 | 12.5 | 12.1 | 14.6 | 11.3 | 14.0 | 17.1 | * | * | 12.8 | 15.3 |
| Moldova 2005 | 71.4 | 72.8 | * | 74.0 | 68.6 | 75.9 | 71.7 | * | * | 71.2 | 76.8 |
| Tajikistan 2012 | 18.6 | 13.8 | 13.7 | 13.5 | 10.4 | 16.3 | 21.8 | * | 9.3 | 14.2 | 23.6 |
| Ukraine 2007 | 35.4 | 34.6 | * | 32.9 | 33.9 | * | 34.6 | * | * | 32.0 | 37.2 |
| Latin America and the Caribbean |  |  |  |  |  |  |  |  |  |  |  |
| Bolivia 2008 | 30.8 | 13.7 | 10.2 | 16.5 | 26.2 | 30.9 | 42.8 | 14.6 | 16.4 | 30.0 | 39.5 |
| Colombia 2010 | 62.4 | 56.4 | 50.0 | 60.1 | 62.6 | 69.8 | 67.2 | 32.3 | 59.3 | 61.6 | 63.3 |
| Guyana 2009 | 36.4 | 24.2 | 13.8 | 23.5 | 30.7 | 38.4 | 39.1 | * | 13.3 | 30.7 | * |
| Honduras 2011-2012 | 65.9 | 52.7 | 43.2 | 55.2 | 62.4 | 70.1 | 69.3 | 45.8 | 55.4 | 64.5 | 73.0 |
| Peru 2012 | 61.4 | 43.7 | 41.4 | 51.4 | 63.0 | 62.6 | 64.4 | 38.1 | 45.6 | 59.0 | 61.4 |

[^4]Figure 3. Postpartum family planning use (any method) and family planning use by currently married women (any method) disaggregated by wealth index, Bangladesh 2011 and Indonesia 2012


### 3.3.3. Fertility preferences

Establishing fertility preferences for women based on the reproductive calendar is difficult, and perhaps impossible. In this section three measures are presented. First, postpartum family planning use is evaluated based upon the wantedness of the birth. There are three possibilities: 1 ) the woman wanted the birth at the time of the birth; 2) the woman wanted the birth but would have preferred to wait; and 3) the birth was not wanted at all. The usual interpretation of such a measure is that it indicates motivation to use family planning. However, it could just as well be an indication of inability or unwillingness to use family planning. For instance, if a woman mistimed a birth in the past or did not want the birth, she might persist in not using family planning in the future.

The second measure of fertility preferences is an evaluation of the number of children born to a woman at the time of the birth relative to her current expression of ideal family size. The measure can have three values: the parity at birth is less than the woman's current ideal family size, the parity at birth is equal to her ideal family size, or the parity at birth is greater than her ideal family size. This measure's appropriateness is limited by the fact that the statement of ideal family size is made during the interview-that is, retrospectively rather than at the time of the birth. A woman's estimation of ideal
family size may be fluid. Ideal family size could very well increase as the birth order of children increases.

The third measure of fertility preferences is based on whether a woman wants another birth or not. It is possible to establish a further disaggregation-wanting to delay a birth or not among women who want another child. It was decided not to use this distinction because the birth being evaluated for postpartum family planning likely occurred many months before the interview. The assessment of wanting to delay or not delay a pregnancy is time sensitive. The temporal disconnect between the birth and the interview would likely render the measure invalid for the purposes of this study.

Table 8 presents use of postpartum family planning disaggregated for the three measures of fertility preferences described above. The use of postpartum family planning does not show a consistent pattern by the wantedness status of the birth. Bangladesh, Jordan, and Pakistan are the only countries that show strongly differentiated postpartum family planning use based on this indicator.

The second measure of preferences, parity relative to current ideal family size, shows a much more distinct pattern of results. In 37 out of 42 surveys with data, women who have achieved their ideal family size with the birth are more likely to use postpartum family planning than women who have not yet achieved their ideal family size. In 23 of these 37 surveys, women who have exceeded their ideal family size are more likely to use postpartum family planning that women who have not yet reached their ideal family size.

The third measure of fertility preferences is based on the preferences of women at the time of the interview (as opposed to preferences at the time of birth). In 32 of the 43 surveys studied, this measure matches expectations in that women who at the time of the survey report that they do not want any more children are more likely to be using postpartum family planning compared with women who want more children. This is despite the fact that the point in time at which the woman stated her fertility preference is different from the time of the birth.
Table 8. Postpartum family planning use (any method) by wantedness of the birth, birth order relative to ideal family size, and desire to have another child, 43 DHS surveys, 2005-2013

|  | Wantedness status of birth |  |  | Birth order relative to ideal family size |  |  |  | Desire to have another child |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Then | Later | No more | Less | Same | Greater | Nonnumerical | Wants no more | Wants more | Not established |
| West and Central Africa |  |  |  |  |  |  |  |  |  |  |
| Benin 2011-2012 | 3.4 | 5.0 | 2.8 | 3.8 | 2.5 | 3.4 | 4.1 | 4.0 | 4.2 | 2.6 |
| Burkina Faso 2010 | 3.4 | 4.5 | * | 3.7 | 3.0 | 3.5 | 2.8 | 4.2 | 3.8 | 6.4 |
| Ghana 2008 | 4.9 | 6.8 | * | 4.8 | 4.9 | 8.1 | * | 8.7 | 4.1 | * |
| Niger 2012 | 18.8 | 25.4 | * | 19.1 | 21.3 | 20.3 | 17.3 | 29.9 | 20.1 | 19.2 |
| Nigeria 2008 | 5.7 | 11.3 | * | 6.1 | 8.3 | 5.6 | 3.8 | 12.3 | 5.1 | 6.2 |
| Senegal 2010-2011 | 9.7 | 11.4 | * | 9.9 | 12.0 | 11.1 | 10.5 | 12.1 | 10.5 | * |
| Sierra Leone 2008 | 3.0 | 6.3 | 9.0 | 4.4 | 2.9 | 4.4 | * | 4.6 | 4.1 | 4.7 |
| East and Southern Africa |  |  |  |  |  |  |  |  |  |  |
| Burundi 2010 | 7.2 | 9.4 | * | 8.1 | 9.5 | 6.4 | 2.9 | 8.0 | 8.8 | * |
| Comoros 2012 | 7.5 | 14.6 | * | 8.7 | 17.2 | 5.8 | * | 10.5 | 7.7 | 29.4 |
| Ethiopia 2011 | 11.1 | 13.8 | 9.7 | 13.3 | 9.1 | 9.5 | 6.5 | 13.1 | 13.5 | 8.3 |
| Kenya 2008-2009 | 24.1 | 22.6 | 19.1 | 23.6 | 24.9 | 20.2 | 17.1 | 23.9 | 24.6 | * |
| Lesotho 2009 | 27.2 | 21.9 | 22.5 | 24.2 | 28.9 | 22.9 | * | 26.7 | 26.6 | * |
| Madagascar 2008-2009 | 11.7 | 17.7 | * | 11.8 | 14.9 | 12.6 | 9.7 | 16.7 | 12.4 | 8.1 |
| Malawi 2010 | 17.4 | 16.3 | 20.8 | 16.4 | 19.7 | 21.1 | 19.5 | 20.7 | 18.3 | 14.5 |
| Mozambique 2011 | 2.9 | 5.7 | * | 2.9 | 4.0 | 4.8 | 4.0 | 5.5 | 3.2 | 3.0 |
| Namibia 2006-2007 | 31.1 | 25.2 | 28.0 | 25.4 | 33.2 | 33.4 | * | 32.7 | 27.2 | 25.8 |
| Rwanda 2010 | 18.1 | 22.8 | 15.7 | 19.9 | 21.6 | 16.8 | 14.2 | 19.6 | 24.0 | * |
| Tanzania 2010 | 14.6 | 16.2 | * | 14.3 | 19.2 | 17.1 | 12.2 | 20.9 | 15.6 | * |
| Uganda 2011 | 9.1 | 8.9 | 7.6 | 8.3 | 10.3 | 9.3 | 9.7 | 11.5 | 8.9 | * |
| Zambia 2007 | 28.3 | 20.4 | 24.0 | 24.2 | 25.0 | 31.7 | 23.6 | 26.9 | 24.2 | 20.8 |
| Zimbabwe 2010-2011 | 56.9 | 48.5 | * | 54.1 | 57.2 | 48.0 | * | 51.5 | 58.2 | 53.8 |
| Middle East and North Africa |  |  |  |  |  |  |  |  |  |  |
| Egypt 2008 | 75.2 | * | 80.5 | 70.5 | 82.6 | 81.3 | * | 83.7 | 77.1 | 68.3 |
| Jordan 2012 | 76.9 | 85.3 | 79.8 | 75.0 | 82.5 | 83.8 | 86.2 | 87.8 | 82.2 | 66.4 |

Table 8. - Continued

|  | Wantedness status of birth |  |  | Birth order relative to ideal family size |  |  |  | Desire to have another child |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Then | Later | No more | Less | Same | Greater | Nonnumerical | Wants no more | Wants more | Not established |
| South and Southeast Asia |  |  |  |  |  |  |  |  |  |  |
| Bangladesh 2011 | 29.1 | 36.6 | 36.7 | 28.8 | 31.6 | 34.5 | * | 33.6 | 32.1 | 25.0 |
| Cambodia 2010 | 8.1 | 10.5 | 8.4 | 7.9 | 8.4 | 11.0 | * | 9.8 | 7.8 | 6.0 |
| India 2005-2006 | 17.2 | 23.6 | 21.9 | 9.2 | 25.6 | 23.5 | 10.4 | 28.3 | 9.0 | 6.2 |
| Indonesia 2012 | 65.6 | 65.4 | 70.0 | 65.4 | 69.3 | 63.4 | * | 70.0 | 68.0 | 61.4 |
| Maldives 2009 | 20.2 | * | * | 20.0 | 21.9 | 34.3 | * | 30.8 | 17.5 | 16.3 |
| Nepal 2011 | 11.4 | 14.2 | * | 8.7 | 13.9 | 12.1 | * | 13.6 | 11.5 | * |
| Pakistan 2012-2013 | 27.0 | 35.0 | 46.1 | 23.3 | 38.3 | 36.7 | 30.9 | 41.3 | 26.0 | 23.7 |
| Timor-Leste 2009-2010 | 8.7 | 15.5 | * | 8.3 | 11.4 | 12.7 | 11.0 | 15.9 | 12.7 | 8.2 |
| Eastern Europe and Central Asia |  |  |  |  |  |  |  |  |  |  |
| Albania 2008-2009 | 63.6 | * | * | 60.7 | 72.9 | * | * | 69.3 | 65.5 | * |
| Armenia 2010 | 46.3 | * | * | 44.7 | 56.8 | * | * | 61.2 | 48.3 | 44.7 |
| Azerbaijan 2006 | 39.9 | * | * | 34.6 | 47.2 | 56.8 | * | 47.6 | 47.2 | * |
| Kyrgyz Republic 2012 | 13.9 | * | * | 13.6 | 16.3 | * | * | 15.7 | 16.1 | 11.3 |
| Moldova 2005 | 72.8 | * | * | * | * | * | * | 76.3 | 71.3 | * |
| Tajikistan 2012 | 14.0 | * | * | 11.2 | 21.2 | 23.6 | * | 23.3 | 12.4 | 19.4 |
| Ukraine 2007 | 33.5 | * | * | 32.2 | 36.9 | * | * | 38.5 | 40.3 | * |
| Latin America and the Caribbean |  |  |  |  |  |  |  |  |  |  |
| Bolivia 2008 | 27.4 | 20.5 | 19.7 | 25.6 | 23.7 | 20.1 | 19.9 | 23.7 | 28.2 | * |
| Colombia 2010 | 62.1 | 58.2 | 61.2 | 55.6 | 64.7 | 64.5 | * | 67.0 | 57.8 | 51.0 |
| Guyana 2009 | 27.3 | * | * | 27.6 | 30.9 | 22.6 | * | 27.1 | 34.7 | * |
| Honduras 2011-2012 | 60.6 | 56.9 | 55.9 | 56.1 | 63.8 | 61.2 | 49.1 | 64.3 | 58.0 | * |
| Peru 2012 | 58.0 | 55.1 | 50.5 | 56.3 | 57.3 | 53.1 | * | 55.6 | 58.0 | * |

Note: Postpartum family planning (any method) evaluated at three months after birth.
Wantedness in first three columns queried at the time of birth. Universe is all births 12 to 37 months preceding the survey. Ideal family size is queried at time of survey. The number of children that is compared to the ideal family size is based on number of children at birth. Universe is all births 12 to 37 months preceding the survey.
Wantedness in the final three columns is evaluated at the time of the survey. Universe is most recent births 4 to 37 months preceding the survey. Asterisk (*) indicates that fewer than 100 observations are available for tabulation.

### 3.3.4. Use of maternal health services

Table 9 presents use of postpartum family planning services disaggregated by use of antenatal care services and by place of delivery (facility versus home delivery). The universe for these tabulations differs from the previous tabulations. Instead of any birth between 12 months and 36 months ago, the universe is defined as the most recent birth between 4 months and 36 months. The exclusion of births prior the most recent birth is because information on maternal health services is available only for the most recent birth. The additional inclusion of the births from 4 to 11 months was done to increase the sample size of the most recent births.

In all countries, except for some in East Europe and Central Asia, at three months postpartum women with antenatal care are more likely to use family planning. In most of the countries with moderately high levels of postpartum family planning use, the level is at least 15 points higher among women having four to six antenatal care visits versus having none at all. Examples include Bolivia, India, Kenya, and Madagascar. The countries with low levels of postpartum family planning also exhibit more postpartum family planning use with higher levels of antenatal care, but the pattern is less clear. For example, Niger shows a strong relationship between postpartum family planning use and number of antenatal care visits, while Sierra Leone shows little relationship between the two.

Bangladesh is an interesting case. As mentioned, Bangladesh shows an extremely low level of postpartum family planning use at one month postpartum, but rapid increases in use as the postpartum period extends. As Table 9 shows, in Bangladesh the number of antenatal care visits bears little relationship to use of family planning at three months postpartum.

In all countries where comparisons are possible, women who deliver their baby in a medical facility are more likely to use family planning in the postpartum period than women who deliver outside a medical facility. In some cases, the differential is modest, as in Azerbaijan and Jordan. In other cases, the differential is very large. In Colombia and Guyana the differential exceeds 20 percent.

Table 9. Postpartum family planning use (any method) by use of antenatal care and place of delivery, 43 DHS surveys, 2005-2013

|  | Prenatal care |  |  |  |  | Delivery care |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No prenatal care | $\begin{gathered} 1-3 \\ \text { visits } \end{gathered}$ | $\begin{gathered} 4-6 \\ \text { visits } \end{gathered}$ | 7+ visits | Don't know or missing | Home | Facility | Don't know or missing |
| West and Central Africa |  |  |  |  |  |  |  |  |
| Benin 2011-2012 | 1.7 | 4.4 | 4.3 | 5.4 | 5.5 | 2.6 | 4.5 | * |
| Burkina Faso 2010 | 1.4 | 4.1 | 5.2 | * | * | 1.5 | 5.5 | * |
| Ghana 2008 | * | 1.3 | 5.3 | 7.8 | * | 3.7 | 6.6 | * |
| Niger 2012 | 9.9 | 22.2 | 24.7 | * | * | 16.6 | 30.6 | * |
| Nigeria 2008 | 2.1 | 4.4 | 6.7 | 14.5 | 9.7 | 3.3 | 13.7 | * |
| Senegal 2010-2011 | 6.4 | 8.3 | 15.1 | * | * | 3.9 | 14.7 | * |
| Sierra Leone 2008 | 3.3 | 2.2 | 3.9 | 6.2 | 4.8 | 3.5 | 5.8 | * |
| East and Southern Africa |  |  |  |  |  |  |  |  |
| Burundi 2010 | * | 9.4 | 11.3 | * | * | 6.7 | 11.7 | 11.4 |
| Comoros 2012 | * | 7.4 | 16.2 | 19.9 | 12.5 | 8.8 | 14.0 | * |
| Ethiopia 2011 | 7.2 | 13.5 | 28.4 | 37.9 | * | 8.9 | 44.5 | * |

(Continued...)

Table 9. - Continued

|  | Prenatal care |  |  |  |  | Delivery care |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No prenatal care | $\begin{gathered} 1-3 \\ \text { visits } \end{gathered}$ | $\begin{gathered} 4-6 \\ \text { visits } \end{gathered}$ | $\begin{gathered} 7+ \\ \text { visits } \end{gathered}$ | Don't know or missing | Home | Facility | Don't know or missing |
| Kenya 2008-2009 | 13.2 | 19.3 | 28.7 | 37.8 | * | 15.5 | 33.8 | * |
| Lesotho 2009 | 21.4 | 24.8 | 28.7 | 35.6 | * | 19.9 | 34.1 | * |
| Madagascar 2008-2009 | 5.5 | 12.5 | 16.3 | 23.4 | * | 10.6 | 20.0 | * |
| Malawi 2010 | 20.4 | 19.4 | 22.6 | 22.5 | * | 18.3 | 21.7 | 16.2 |
| Mozambique 2011 | 0.8 | 3.6 | 4.4 | 11.3 | * | 1.9 | 5.5 | 2 |
| Namibia 2006-2007 | 21.4 | 32.8 | 30.6 | 40.4 | 32.2 | 20.3 | 36.3 | * |
| Rwanda 2010 | * | 22.3 | 25.2 | * | * | 14.5 | 25.8 | * |
| Tanzania 2010 | * | 16.1 | 17.7 | * | * | 14.2 | 19.7 | * |
| Uganda 2011 | 10.0 | 8.1 | 13.1 | 13.2 | * | 6.1 | 13.6 | * |
| Zambia 2007 | * | 28.6 | 26.4 | 31.3 | * | 25.9 | 28.7 | * |
| Zimbabwe 2010-2011 | 40.4 | 57.6 | 63.1 | 63.9 | * | 51.4 | 63.5 | * |
| Middle East and North Africa |  |  |  |  |  |  |  |  |
| Egypt 2008 | 74.1 | 74.7 | 77.6 | 81.4 | * | 73.6 | 80.2 | * |
| Jordan 2012 | * | 73.5 | 83.8 | 83.4 | * | * | 83.4 | * |
| South and Southeast Asia |  |  |  |  |  |  |  |  |
| Bangladesh 2011 | 29.8 | 33.6 | 32.1 | 39.9 | * | 32.3 | 33.5 | * |
| Cambodia 2010 | 5.4 | 8.9 | 10.1 | 9.4 | * | 7.5 | 10.2 | * |
| India 2005-2006 | 11.4 | 17.9 | 28.5 | 31.3 | 21.9 | 15.0 | 28.9 | * |
| Indonesia 2012 | 33.8 | 57.6 | 65.8 | 71.0 | * | 64.4 | 69.2 | * |
| Maldives 2009 | * | * | 23.8 | 21.9 | 19.8 | * | 22.0 | * |
| Nepal 2011 | 10.1 | 11.1 | 13.9 | 17.3 | * | 10.6 | 15.9 | * |
| Pakistan 2012-2013 | 20.5 | 32.2 | 37.9 | 46.0 | * | 27.8 | 37.5 | * |
| Timor-Leste 2009-2010 | 5.3 | 11.5 | 12.7 | 19.7 | * | 9.4 | 20.5 | * |
| Eastern Europe and Central Asia |  |  |  |  |  |  |  |  |
| Albania 2008-2009 | * | 64.0 | 67.9 | 73.3 | * | * | 67.9 | * |
| Armenia 2010 | * | * | 44.5 | 54.4 | * | * | 49.6 | * |
| Azerbaijan 2006 | 48.3 | 45.4 | 45.2 | 46.0 | * | 46.3 | 46.7 | * |
| Kyrgyz Republic 2012 | * | 14.2 | 15.1 | 14.9 | * | * | 14.7 | * |
| Moldova 2005 | * | * | 81.5 | 74.2 | * | * | 75.2 | * |
| Tajikistan 2012 | 11.0 | 14.9 | 17.5 | 17.8 | * | 13.3 | 16.2 | * |
| Ukraine 2007 | * | * | * | 37.2 | * | * | 35.5 | * |
| Latin America and the Caribbean |  |  |  |  |  |  |  |  |
| Bolivia 2008 | 13.3 | 15.8 | 25.2 | 34.9 | * | 11.2 | 31.2 | * |
| Colombia 2010 | 45.2 | 55.1 | 61.6 | 69.4 | 53.5 | 38.4 | 65.8 | * |
| Guyana 2009 | * | * | 29.2 | 36.5 | 22.8 | 12.2 | 33.4 | * |
| Honduras 2011-2012 | 40.8 | 44.9 | 56.3 | 68.6 | * | 39.4 | 65.4 | * |
| Peru 2012 | 40.1 | 42.1 | 49.5 | 58.5 | * | 39.7 | 58.2 | * |

Asterisk (*) indicates that fewer than 100 observations are available for tabulation.

## 4. Discussion

The study used the reproductive calendar from surveys in 43 countries to analyze levels of family planning in the postpartum period. The analysis looked at the method mix of postpartum women versus currently married women in a given country, and examined differences in postpartum family planning use disaggregated by potentially influential factors, including demographic and socioeconomic characteristics, fertility preferences, and the use of maternal health services.

In a report covering 43 countries across six diverse regions, there can be few sweeping conclusions. Indepth analysis of any given country was not the intent of the study. However, the report does offer several general findings concerning postpartum family planning:

- The use of postpartum family planning generally increases with time since the birth, at least up to five or six months postpartum.
- Method mix for postpartum family planning use is generally different from method mix among all women, with more LAM and injectable use and less sterilization.
- In most countries use of postpartum family planning is not strongly related to the age of the mother, parity, or the wantedness of the last birth.
- In most countries use of postpartum family planning is positively related to urban location, wealth quintile, education level, achievement of desired family size, and current fertility desires. It is negatively related to the number of children under age 5 born to the woman.
- There is a strong correlation between the use of maternal health care (including antenatal care and facility-based births) and postpartum family planning.

This report also points to some promising areas for further research and analysis and suggests how the reproductive calendar can be used to analyze postpartum family planning:

- In-depth analysis and interpretation of report results on a country-by-country basis. Each survey in this report has an interesting story of its own to tell. Country policymakers and program managers would find it useful to extract the results from this report and use them to inform future decisions. For example, analysis of family planning use month by month could help planners understand opportunities along the continuum of care.
- Further comparison of overall family planning use compared with postpartum use. In several countries, with Bangladesh as the most notable example, early initiation of family planning postpartum use lags significantly behind overall family planning use in the country. However this observation is partly method-specific and varies across the entire postpartum period. Therefore, program planners and policymakers might want to create "user profiles" to help analyze the differences between the women who use family planning early in the postpartum period and those who delay initiation of use. This is an important difference, as fecundity can return quickly in the absence of exclusive breastfeeding.
- Examination of the relationship between postpartum family planning use and birth intervals. In most of sub-Saharan Africa, birth spacing is the most likely motivation for using family planning. Longer or shorter birth intervals are determined by a complicated set of factors. Among these factors are postpartum abstinence, breastfeeding practices, and use of family planning in the
postpartum period, as well as later use. Unfortunately, the reproductive calendar does not help with analyzing breastfeeding practices or postpartum abstinence. Nonetheless, in a comprehensive analysis it would be useful to draw on available data in the DHS for postpartum abstinence and breastfeeding in conjunction with a detailed analysis linking postpartum family planning and birth intervals.
- Facilitation of use of the reproductive calendar. The DHS Program may want to facilitate easier access to the reproductive calendar. Currently use of the calendar requires data manipulation skills beyond the abilities of the typical analyst.
- DHS final reports. Final reports for DHS may want to include a section on postpartum family planning. For improved birth spacing, postpartum family planning is likely the sine qua non.
- Multivariate analysis. This report does not claim to have found root causes for use or non-use of family planning in the postpartum period. In fact, some of the results might be surprising. For example, the report found little evidence that the wantedness status of the birth is related to postpartum family planning use. Well-designed multivariate analysis frequently generates results that are more robust in establishing causality or plausible correlations.


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Appendix
Appendix Table A1. Numbers of births for Table 6, postpartum family planning use disaggregated by demographic factors

|  | Age of mother at birth |  |  | Birth order of child |  |  | Number of children under age 5 |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10-14 | 25-34 | 35-49 | 0-1 | 2-4 | 5+ | 1 | 2 |  |
| West and Central Africa |  |  |  |  |  |  |  |  |  |
| Benin 2011-2012 | 1,983 | 2,306 | 624 | 1,970 | 2,166 | 777 | 4,030 | 883 | 4,913 |
| Burkina Faso 2010 | 2,500 | 2,540 | 961 | 2,228 | 2,333 | 1,440 | 5,001 | 1,000 | 6,001 |
| Ghana 2008 | 436 | 514 | 188 | 514 | 433 | 191 | 925 | 213 | 1,138 |
| Niger 2012 | 2,161 | 2,104 | 667 | 1,516 | 1,870 | 1,546 | 3,626 | 1,306 | 4,932 |
| Nigeria 2008 | 4,912 | 5,431 | 1,945 | 4,512 | 4,667 | 3,109 | 9,418 | 2,870 | 12,288 |
| Senegal 2010-2011 | 1,107 | 1,162 | 474 | 1,020 | 1,060 | 663 | 2,149 | 594 | 2,743 |
| Sierra Leone 2008 | 962 | 893 | 280 | 903 | 875 | 357 | 1,725 | 410 | 2,135 |
| East and Southern Africa |  |  |  |  |  |  |  |  |  |
| Burundi 2010 | 1,235 | 1,401 | 616 | 1,310 | 1,244 | 698 | 2,521 | 731 | 3,252 |
| Comoros 2012 | 476 | 586 | 178 | 532 | 476 | 232 | 879 | 361 | 1,240 |
| Ethiopia 2011 | 1,864 | 1,906 | 574 | 1,620 | 1,607 | 1,117 | 3,425 | 919 | 4,344 |
| Kenya 2008-2009 | 1,185 | 952 | 289 | 1,069 | 893 | 464 | 1,834 | 592 | 2,426 |
| Lesotho 2009 | 832 | 556 | 191 | 964 | 482 | 133 | 1,363 | 216 | 1,579 |
| Madagascar 2008-2009 | 2,311 | 1,775 | 701 | 2,114 | 1,667 | 1,006 | 3,736 | 1,051 | 4,787 |
| Malawi 2010 | 3,855 | 3,259 | 1,048 | 3,096 | 3,384 | 1,682 | 6,628 | 1,534 | 8,162 |
| Mozambique 2011 | 2,102 | 1,768 | 623 | 1,911 | 1,776 | 806 | 3,594 | 899 | 4,493 |
| Namibia 2006-2007 | 909 | 868 | 327 | 1,171 | 709 | 224 | 1,786 | 318 | 2,104 |
| Rwanda 2010 | 1,251 | 1,704 | 657 | 1,662 | 1,253 | 697 | 2,942 | 670 | 3,612 |
| Tanzania 2010 | 1,293 | 1,323 | 553 | 1,160 | 1,278 | 731 | 2,443 | 726 | 3,169 |
| Uganda 2011 | 1,438 | 1,252 | 399 | 1,099 | 1,161 | 829 | 2,200 | 889 | 3,089 |
| Zambia 2007 | 1,218 | 1,036 | 363 | 982 | 1,055 | 580 | 1,982 | 635 | 2,617 |
| Zimbabwe 2010-2011 | 1,129 | 858 | 214 | 1,328 | 718 | 155 | 1,900 | 301 | 2,201 |

Appendix Table A1. - Continued

|  | Age of mother at birth |  |  | Birth order of child |  |  | Number of children under age 5 |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10-14 | 25-34 | 35-49 | 0-1 | 2-4 | 5+ | 1 | 2 |  |
| Middle East and North Africa |  |  |  |  |  |  |  |  |  |
| Egypt 2008 | 1,947 | 1,967 | 403 | 2,523 | 1,494 | 300 | 3,457 | 860 | 4,317 |
| Jordan 2012 | 1,193 | 2,275 | 746 | 1,773 | 1,830 | 611 | 3,097 | 1,117 | 4,214 |
| South and Southeast Asia |  |  |  |  |  |  |  |  |  |
| Bangladesh 2011 | 2,156 | 981 | 142 | 2,149 | 993 | 137 | 2,923 | 356 | 3,279 |
| Cambodia 2010 | 1,393 | 1,475 | 480 | 1,995 | 1,058 | 295 | 2,886 | 462 | 3,348 |
| India 2005-2006 | 11,751 | 7,726 | 961 | 12,430 | 6,390 | 1,618 | 16,212 | 4,226 | 20,438 |
| Indonesia 2012 | 2,539 | 3,462 | 1,140 | 4,698 | 2,095 | 348 | 6,304 | 837 | 7,141 |
| Maldives 2009 | 640 | 727 | 190 | 1,012 | 434 | 111 | 1,401 | 156 | 1,557 |
| Nepal 2011 | 1,196 | 728 | 136 | 1,252 | 658 | 150 | 1,725 | 335 | 2,060 |
| Pakistan 2012-2013 | 1,806 | 2,224 | 562 | 1,974 | 1,719 | 899 | 3,335 | 1,257 | 4,592 |
| Timor-Leste 2009-2010 | 1,295 | 1,729 | 928 | 1,318 | 1,486 | 1,148 | 2,820 | 1,132 | 3,952 |
| Eastern Europe and Central Asia |  |  |  |  |  |  |  |  |  |
| Albania 2008-2009 | 228 | 329 | 57 | 414 | 185 | 15 | 532 | 82 | 614 |
| Armenia 2010 | 354 | 217 | 34 | 514 | 87 | 4 | 511 | 94 | 605 |
| Azerbaijan 2006 | 504 | 353 | 72 | 707 | 213 | 9 | 706 | 223 | 929 |
| Kyrgyz Republic 2012 | 764 | 760 | 201 | 1,011 | 651 | 63 | 1,302 | 423 | 1,725 |
| Moldova 2005 | 352 | 283 | 39 | 581 | 87 | 6 | 619 | 55 | 674 |
| Tajikistan 2012 | 1,072 | 907 | 191 | 1,310 | 735 | 125 | 1,632 | 538 | 2,170 |
| Ukraine 2007 | 235 | 223 | 31 | 433 | 52 | 4 | 439 | 50 | 489 |
| Latin America and the Caribbean |  |  |  |  |  |  |  |  |  |
| Bolivia 2008 | 1,572 | 1,409 | 547 | 1,801 | 1,176 | 551 | 2,869 | 659 | 3,528 |
| Colombia 2010 | 3,837 | 2,590 | 726 | 4,786 | 1,950 | 417 | 6,247 | 906 | 7,153 |
| Guyana 2009 | 457 | 364 | 114 | 480 | 341 | 114 | 726 | 209 | 935 |
| Honduras 2011-2012 | 2,379 | 1,623 | 458 | 2,691 | 1,347 | 422 | 3,871 | 589 | 4,460 |
| Peru 2014 | 1,574 | 1,669 | 665 | 2,294 | 1,276 | 338 | 3,486 | 422 | 3,908 |

Note: Postpartum family planning evaluated at three months after birth. Universe is all births 4 to 37 months preceding the survey.
Appendix Table A2. Numbers of births for Table 7, postpartum family planning use disaggregated by socioeconomic factors

|  | Location |  | Wealth status |  |  |  |  | Highest level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Poorest | Second | Third | Fourth | Richest | None | Primary | Secondary | Higher |
| West and Central Africa |  |  |  |  |  |  |  |  |  |  |  |
| Benin 2011-2012 | 1,819 | 3,094 | 1,092 | 1,020 | 1,074 | 960 | 767 | 3,585 | 773 | 520 | 35 |
| Burkina Faso 2010 | 1,355 | 4,646 | 1,126 | 1,251 | 1,333 | 1,283 | 1,008 | 4,928 | 728 | 324 | 19 |
| Ghana 2008 | 382 | 756 | 368 | 246 | 206 | 188 | 130 | 412 | 288 | 414 | 24 |
| Niger 2012 | 1,122 | 3,810 | 863 | 835 | 925 | 1,031 | 1,278 | 4,023 | 583 | 286 | 29 |
| Nigeria 2008 | 4,071 | 8,217 | 2,709 | 2,888 | 2,423 | 2,272 | 1,996 | 5,674 | 2,506 | 3,297 | 811 |
| Senegal 2010-2011 | 814 | 1,929 | 763 | 711 | 573 | 414 | 282 | 1,946 | 579 | 196 | 22 |
| Sierra Leone 2008 | 726 | 1,409 | 465 | 400 | 424 | 457 | 389 | 1,567 | 293 | 245 | 30 |
| East and Southern Africa |  |  |  |  |  |  |  |  |  |  |  |
| Burundi 2010 | 569 | 2,683 | 645 | 644 | 582 | 600 | 781 | 1,577 | 1,354 | 277 | 44 |
| Comoros 2012 | 423 | 817 | 321 | 270 | 242 | 207 | 200 | 504 | 298 | 352 | 82 |
| Ethiopia 2011 | 798 | 3,546 | 1,308 | 763 | 686 | 727 | 860 | 2,981 | 1,119 | 157 | 87 |
| Kenya 2008-2009 | 582 | 1,844 | 703 | 427 | 419 | 382 | 495 | 482 | 1,409 | 409 | 126 |
| Lesotho 2009 | 270 | 1,309 | 473 | 347 | 295 | 247 | 217 | 33 | 943 | 543 | 60 |
| Madagascar 2008-2009 | 823 | 3,964 | 1,346 | 1,042 | 854 | 794 | 751 | 1,307 | 2,512 | 895 | 73 |
| Malawi 2010 | 738 | 7,424 | 1,887 | 1,888 | 1,838 | 1,522 | 1,027 | 1,357 | 5,702 | 1,063 | 40 |
| Mozambique 2011 | 1,454 | 3,039 | 768 | 894 | 871 | 984 | 976 | 1,506 | 2,281 | 666 | 40 |
| Namibia 2006-2007 | 803 | 1,301 | 441 | 401 | 544 | 466 | 252 | 279 | 632 | 1,111 | 82 |
| Rwanda 2010 | 479 | 3,133 | 863 | 760 | 727 | 666 | 596 | 662 | 2,643 | 263 | 44 |
| Tanzania 2010 | 600 | 2,569 | 630 | 712 | 685 | 639 | 503 | 787 | 2,017 | 354 | 11 |
| Uganda 2011 | 629 | 2,460 | 811 | 611 | 552 | 484 | 631 | 531 | 1,872 | 563 | 123 |
| Zambia 2007 | 859 | 1,758 | 563 | 564 | 595 | 567 | 328 | 343 | 1,640 | 575 | 59 |
| Zimbabwe 2010-2011 | 658 | 1,543 | 513 | 445 | 422 | 491 | 330 | 34 | 691 | 1,410 | 66 |
| Middle East and North Africa |  |  |  |  |  |  |  |  |  |  |  |
| Egypt 2008 | 1,611 | 2,706 | 1,010 | 889 | 871 | 788 | 759 | 1,205 | 427 | 2,144 | 541 |
| Jordan 2012 | 2,875 | 1,339 | 1,153 | 1,112 | 969 | 680 | 300 | 119 | 302 | 2,347 | 1,446 |

Appendix Table A2. - Continued

|  | Location |  | Wealth status |  |  |  |  | Highest level of education |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban | Rural | Poorest | Second | Third | Fourth | Richest | None | Primary | Secondary | Higher |
| South and Southeast Asia |  |  |  |  |  |  |  |  |  |  |  |
| Bangladesh 2011 | 1,050 | 2,229 | 707 | 640 | 619 | 631 | 682 | 584 | 985 | 1,408 | 302 |
| Cambodia 2010 | 869 | 2,479 | 858 | 648 | 565 | 563 | 714 | 673 | 1,779 | 838 | 58 |
| India 2005-2006 | 7,816 | 12,622 | 3,587 | 3,782 | 4,220 | 4,505 | 4,344 | 8,149 | 2,886 | 7,798 | 1,605 |
| Indonesia 2012 | 3,267 | 3,874 | 2,187 | 1,419 | 1,320 | 1,179 | 1,036 | 217 | 2,199 | 3,764 | 961 |
| Maldives 2009 | 186 | 1,371 | 351 | 440 | 430 | 213 | 123 | 202 | 592 | 681 | 57 |
| Nepal 2011 | 427 | 1,633 | 646 | 419 | 358 | 352 | 285 | 930 | 429 | 582 | 119 |
| Pakistan 2012-2013 | 1,904 | 2,688 | 1,090 | 911 | 864 | 861 | 866 | 2,557 | 681 | 825 | 529 |
| Timor-Leste 2009-2010 | 900 | 3,052 | 933 | 805 | 862 | 753 | 599 | 1,308 | 1,142 | 1,441 | 61 |
| Eastern Europe and Central Asia |  |  |  |  |  |  |  |  |  |  |  |
| Albania 2008-2009 | 258 | 356 | 154 | 124 | 124 | 113 | 99 | 10 | 378 | 166 | 60 |
| Armenia 2010 | 396 | 209 | 108 | 127 | 137 | 142 | 91 | 0 | 35 | 214 | 356 |
| Azerbaijan 2006 | 441 | 488 | 234 | 223 | 215 | 147 | 110 | 14 | 18 | 799 | 98 |
| Kyrgyz Republic 2012 | 434 | 1,291 | 393 | 373 | 393 | 323 | 243 | 0 | 5 | 973 | 747 |
| Moldova 2005 | 371 | 303 | 91 | 115 | 141 | 141 | 186 | 4 | 7 | 518 | 145 |
| Tajikistan 2012 | 679 | 1,491 | 367 | 424 | 431 | 411 | 537 | 44 | 123 | 1,697 | 306 |
| Ukraine 2007 | 287 | 202 | 89 | 123 | 102 | 74 | 101 | 1 | 2 | 224 | 262 |
| Latin America and the Caribbean |  |  |  |  |  |  |  |  |  |  |  |
| Bolivia 2008 | 1,788 | 1,740 | 1,019 | 758 | 717 | 592 | 442 | 200 | 1,866 | 1,025 | 437 |
| Colombia 2010 | 4,599 | 2,554 | 2,650 | 1,848 | 1,321 | 821 | 513 | 204 | 2,143 | 3,688 | 1,118 |
| Guyana 2009 | 163 | 772 | 407 | 146 | 162 | 112 | 108 | 29 | 218 | 642 | 46 |
| Honduras 2011-2012 | 1,535 | 2,925 | 1,458 | 1,030 | 831 | 646 | 495 | 238 | 2,792 | 1,255 | 175 |
| Peru 2012 | 2,271 | 1,637 | 1,142 | 1,073 | 797 | 566 | 330 | 140 | 1,232 | 1,693 | 843 |

[^5]Appendix Table A3. Numbers of births for Table 8, postpartum family planning use disaggregated by fertility preferences

|  | Wantedness status of birth |  |  | Ideal family size relative to birth order |  |  |  | Desire to have another child |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Then | Later | No more | Less | Same | Greater | Nonnumerical | Wants no more | Wants more | Not established |
| West and Central Africa |  |  |  |  |  |  |  |  |  |  |
| Benin 2011-2012 | 1,420 | 297 | 121 | 3,258 | 634 | 823 | 198 | 800 | 2,720 | 605 |
| Burkina Faso 2010 | 1,875 | 184 | 31 | 4,177 | 701 | 753 | 370 | 935 | 4,069 | 108 |
| Ghana 2008 | 259 | 116 | 74 | 776 | 154 | 164 | 44 | 277 | 618 | 48 |
| Niger 2012 | 1,571 | 164 | 13 | 3,335 | 486 | 734 | 377 | 240 | 3,349 | 108 |
| Nigeria 2008 | 4,076 | 459 | 82 | 8,557 | 1,288 | 1,669 | 774 | 1,368 | 7,343 | 884 |
| Senegal 2010-2011 | 686 | 236 | 43 | 1,966 | 242 | 368 | 167 | 393 | 1,758 | 46 |
| Sierra Leone 2008 | 633 | 151 | 135 | 1,514 | 274 | 261 | 86 | 477 | 1,091 | 195 |
| East and Southern Africa |  |  |  |  |  |  |  |  |  |  |
| Burundi 2010 | 658 | 350 | 51 | 1,950 | 374 | 736 | 192 | 839 | 1,628 | 89 |
| Comoros 2012 | 299 | 134 | 47 | 888 | 127 | 161 | 64 | 185 | 607 | 106 |
| Ethiopia 2011 | 1,138 | 293 | 113 | 2,733 | 408 | 904 | 299 | 1,077 | 2,262 | 145 |
| Kenya 2008-2009 | 504 | 225 | 164 | 1,416 | 373 | 521 | 116 | 815 | 969 | 78 |
| Lesotho 2009 | 248 | 202 | 143 | 856 | 314 | 383 | 26 | 887 | 467 | 22 |
| Madagascar 2008-2009 | 1,508 | 160 | 99 | 3,188 | 665 | 713 | 221 | 1,394 | 2,255 | 126 |
| Malawi 2010 | 1,443 | 577 | 793 | 4,723 | 1,365 | 1,645 | 429 | 2,926 | 3,609 | 238 |
| Mozambique 2011 | 1,318 | 263 | 78 | 2,981 | 640 | 657 | 215 | 1,142 | 2,254 | 285 |
| Namibia 2006-2007 | 345 | 228 | 218 | 1,112 | 482 | 453 | 57 | 1,079 | 575 | 155 |
| Rwanda 2010 | 650 | 338 | 152 | 1,896 | 587 | 929 | 200 | 1,497 | 1,424 | 62 |
| Tanzania 2010 | 784 | 304 | 36 | 2,136 | 374 | 488 | 171 | 666 | 1,766 | 51 |
| Uganda 2011 | 566 | 427 | 128 | 1,874 | 363 | 645 | 207 | 872 | 1,288 | 86 |
| Zambia 2007 | 464 | 262 | 205 | 1,725 | 317 | 422 | 153 | 654 | 1,213 | 168 |
| Zimbabwe 2010-2011 | 642 | 266 | 79 | 1,540 | 350 | 277 | 34 | 729 | 1,081 | 108 |
| Middle East and North Africa |  |  |  |  |  |  |  |  |  |  |
| Egypt 2008 | 1,481 | 93 | 158 | 2,350 | 1,053 | 841 | 73 | 1,941 | 1,383 | 198 |
| Jordan 2012 | 952 | 252 | 114 | 2,384 | 676 | 1,003 | 151 | 1,404 | 1,624 | 128 |

Appendix Table A3. - Continued

|  | Wantedness status of birth |  |  | Ideal family size relative to birth order |  |  |  | Desire to have another child |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Then | Later | No more | Less | Same | Greater | Nonnumerical | Wants no more | Wants more | Not established |
| South and Southeast Asia |  |  |  |  |  |  |  |  |  |  |
| Bangladesh 2011 | 823 | 206 | 135 | 1,293 | 1,029 | 926 | 31 | 1,701 | 1,141 | 109 |
| Cambodia 2010 | 907 | 112 | 105 | 1,986 | 807 | 464 | 91 | 1,423 | 1,331 | 154 |
| India 2005-2006 | 5,529 | 806 | 710 | 8,435 | 6,107 | 5,516 | 380 | 10,215 | 5,514 | 602 |
| Indonesia 2012 | 2,200 | 218 | 175 | 4,195 | 1,669 | 1,189 | 88 | 2,469 | 3,389 | 506 |
| Maldives 2009 | 465 | 61 | 92 | 1,038 | 300 | 190 | 29 | 587 | 683 | 137 |
| Nepal 2011 | 513 | 107 | 99 | 667 | 693 | 666 | 34 | 1,188 | 496 | 52 |
| Pakistan 2012-2013 | 1,212 | 159 | 120 | 2,644 | 754 | 937 | 257 | 1,470 | 1,563 | 338 |
| Timor-Leste 2009-2010 | 1,130 | 172 | 48 | 2,501 | 532 | 632 | 287 | 785 | 1,516 | 551 |
| Eastern Europe and Central Asia |  |  |  |  |  |  |  |  |  |  |
| Albania 2008-2009 | 143 | 26 | 9 | 324 | 189 | 99 | 2 | 265 | 200 | 72 |
| Armenia 2010 | 207 | 12 | 1 | 412 | 166 | 26 | 1 | 159 | 252 | 104 |
| Azerbaijan 2006 | 238 | 35 | 33 | 512 | 288 | 127 | 2 | 422 | 202 | 89 |
| Kyrgyz Republic 2012 | 681 | 23 | 2 | 1,414 | 197 | 98 | 16 | 233 | 810 | 273 |
| Moldova 2005 | 181 | 23 | 18 |  |  |  |  | 308 | 269 | 44 |
| Tajikistan 2012 | 679 | 20 | 15 | 1,490 | 427 | 219 | 34 | 621 | 711 | 314 |
| Ukraine 2007 | 140 | 9 | 17 | 287 | 167 | 34 | 1 | 169 | 189 | 88 |
| Latin America and the Caribbean |  |  |  |  |  |  |  |  |  |  |
| Bolivia 2008 | 453 | 325 | 397 | 1,275 | 795 | 1,344 | 114 | 2,053 | 789 | 46 |
| Colombia 2010 | 1,048 | 713 | 637 | 2,965 | 2,227 | 1,862 | 99 | 4,106 | 2,005 | 180 |
| Guyana 2009 | 176 | 84 | 66 | 474 | 213 | 214 | 34 | 440 | 252 | 41 |
| Honduras 2011-2012 | 844 | 471 | 203 | 2,468 | 926 | 966 | 100 | 1,942 | 1,866 | 88 |
| Peru 2012 | 535 | 434 | 314 | 1,591 | 985 | 1,249 | 83 | 2,216 | 1,265 | 35 |

Note: Postpartum family planning (any method) evaluated at three months after birth. Wantedness in first three columns queried at the time of birth. Universe is all births 12 to 37 months preceding the survey. Ideal family size is queried at time of survey. The number of children that is compared to the ideal family size is based on Universe is all births 12 to 37 months preceding the survey.
Wantedness in the final three columns is evaluated at the time of the survey. Universe is most recent births 4 to 37 months preceding the survey.
Appendix Table A4. Numbers of births for Table 9, postpartum family planning use disaggregated by use of antenatal care and place of

Appendix Table A4. - Continued

|  | Prenatal care |  |  |  |  | Delivery care |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No prenatal care | 1-3 visits | 4-6 visits | 7+ visits | Don't know or missing | Home | Facility | Don't know |  |
| South and Southeast Asia |  |  |  |  |  |  |  |  |  |
| Bangladesh 2011 | 1,323 | 1,732 | 788 | 404 | 3 | 2,959 | 1,281 | 10 | 4,250 |
| Cambodia 2010 | 486 | 1,230 | 1,736 | 721 | 14 | 1,652 | 2,516 | 19 | 4,187 |
| India 2005-2006 | 4,521 | 8,625 | 5,271 | 5,472 | 236 | 12,572 | 11,508 | 45 | 24,125 |
| Indonesia 2012 | 440 | 1,042 | 2,062 | 5,653 | 84 | 3,892 | 5,341 | 48 | 9,281 |
| Maldives 2009 | 5 | 51 | 176 | 1,616 | 246 | 48 | 2,027 | 19 | 2,094 |
| Nepal 2011 | 358 | 783 | 1,089 | 302 | 0 | 1,423 | 1,056 | 53 | 2,532 |
| Pakistan 2012-2013 | 1,271 | 1,854 | 1,055 | 848 | 13 | 2,345 | 2,683 | 13 | 5,041 |
| Timor-Leste 2009-2010 | 531 | 1,316 | 1,963 | 494 | 27 | 3,363 | 967 | 1 | 4,331 |
| Eastern Europe and Central Asia |  |  |  |  |  |  |  |  |  |
| Albania 2008-2009 | 21 | 232 | 296 | 177 | 5 | 25 | 704 | 2 | 731 |
| Armenia 2010 | 4 | 29 | 340 | 372 | 18 | 1 | 760 | 2 | 763 |
| Azerbaijan 2006 | 228 | 342 | 269 | 190 | 33 | 190 | 869 | 3 | 1,062 |
| Kyrgyz Republic 2012 | 42 | 252 | 871 | 898 | 50 | 7 | 2,103 | 3 | 2,113 |
| Moldova 2005 | 16 | 47 | 241 | 532 | 38 | 7 | 866 | 1 | 874 |
| Tajikistan 2012 | 463 | 630 | 865 | 489 | 22 | 510 | 1,948 | 11 | 2,469 |
| Ukraine 2007 | 6 | 14 | 40 | 480 | 92 | 0 | 630 | 2 | 632 |
| Latin America and the Caribbean |  |  |  |  |  |  |  |  |  |
| Bolivia 2008 | 345 | 732 | 1,743 | 1,361 | 12 | 1,142 | 3,032 | 19 | 4,193 |
| Colombia 2010 | 530 | 950 | 3,119 | 4,232 | 112 | 806 | 8,119 | 18 | 8,943 |
| Guyana 2009 | 30 | 80 | 294 | 504 | 184 | 179 | 898 | 15 | 1,092 |
| Honduras 2011-2012 | 200 | 485 | 2,058 | 2,843 | 5 | 1,062 | 4,510 | 19 | 5,591 |
| Peru 2012 | 113 | 233 | 935 | 3,655 | 7 | 715 | 4,191 | 37 | 4,943 |

Note: Postpartum family planning (any method) evaluated at three months after birth. Universe is most recent births 4 to 37 months preceding the survey.


[^0]:    ${ }^{1}$ This report does not consider postabortion family planning.

[^1]:    ${ }^{2}$ The sum of the bars for any grouping will not sum to 100 percent. Only the most prevalent methods are presented in the chart to facilitate easy interpretation.

[^2]:    ${ }^{3}$ See Rutstein and Johnson 2004.

[^3]:    ${ }^{4}$ For Bangladesh see: NIPORT et al. 2011. For Indonesia see: Statistics Indonesia (Badan Pusat Statistik—BPS) et al. 2013.

[^4]:    Note: Postpartum family planning evaluated at three months after birth (any method). Universe is all births 12 to 37 months preceding the survey. Indicators for cross-tabulation are evaluated at the time of the survey.

    Asterisk (*) indicates that fewer than 100 observations are available for tabulation.

[^5]:    Note: Postpartum family planning evaluated at three months after birth (any method). Universe is all births 12 to 37 months preceding the survey. Indicators for cross-tabulation are evaluated at the time of the survey.

