



MATERNAL AND NEWBORN HEALTH SAFE MOTHERHOOD

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COVERAGE OF MATERNITY CARE

A LISTING OF AVAILABLE INFORMATION
FOURTH EDITION



World Health Organization
Family and Reproductive Health
Geneva

Abstract

All women should have access to basic maternity care during pregnancy and delivery. This includes quality antenatal care, clean and safe delivery whether the delivery takes place at home or in a health facility, as well as postpartum care for mother and infant. A continuum of care is essential for both mother and baby, aimed at improving their health and preventing morbidity and mortality.

This document brings together, in a standard format, data on coverage of maternity care worldwide. The data presented have been collected from a variety of sources, including health service reporting and surveys. Country, regional and global estimates derived from the information available are presented.

The estimates show that in the developing world only two in three women receive any antenatal care, less than 55% of deliveries are attended by skilled personnel and just 40% take place in health institutions. Thus, currently more than 45 million pregnant women annually do not receive any antenatal care, some 75 million births still take place at home and almost 60 million without a skilled attendant present. Between 90 and 100 million women do not receive postpartum care. South-central Asia and Western and Eastern Africa contribute heavily to these numbers, accounting for 45% of the world's births and also showing the lowest coverage of care during pregnancy and delivery.

Whereas women who deliver with the assistance of skilled personnel have usually had at least one antenatal care visit, the reverse does not apply; many women who receive antenatal care do not have a skilled attendant present at delivery. Care is needed throughout delivery and the postpartum period which are prime opportunities to prevent ill health and avert deaths.

Nearly all maternal deaths occur in developing countries and among the most disadvantaged population groups. Greater coverage of care during pregnancy, delivery and the postpartum period will help to reduce deaths and disabilities of mothers and infants.

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COVERAGE OF MATERNITY CARE
A listing of available information
Fourth edition

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1. INTRODUCTION

All women should have access to basic maternity care during pregnancy and delivery.¹ This comprises quality antenatal care and clean and safe delivery whether the delivery takes place at home or in a health facility. It also includes early postpartum care for mother and infant to detect and manage complications, and to promote healthy behaviours, including offering support for breastfeeding. Appropriate care during the continuum of pregnancy, delivery and the postpartum period helps to reduce complications and mortality in mother and baby.

1.1 Preventing deaths and morbidity in pregnancy and childbirth

Every year some 200 million women become pregnant. It is estimated that more than 50 million women each year develop pregnancy-related complications, which require medical attention.² For close to 600 000 women pregnancy-related complications are fatal.³ Nearly all maternal deaths occur in developing countries and among the most vulnerable and disadvantaged population groups.

The complications that cause morbidities and deaths of mothers also affect the infant they are carrying. The World Health Organization estimates that there are 5.1 million deaths in the newborn period, that is, before the baby is one month old.⁴ Almost 3.4 million of these occur during the first week of life, while 4.3 million fetal deaths are estimated to take place before or during delivery. These 7.6 million perinatal deaths are largely a consequence of poorly managed pregnancies and deliveries or the result of inadequate care of the neonate during the first critical hours of life.

Deaths and disabilities of mothers and infants can be greatly reduced with attainable skills and resources. The Mother-Baby Package,¹ introduced by WHO's Maternal and Newborn Health/Safe Motherhood Programme (MSM) in 1995 describes the essential elements of care during pregnancy, delivery and postpartum.

2. THE ROLE OF MATERNITY CARE

Promoting healthy behaviours, and increasing knowledge about pregnancy and pregnancy-related complications among women, families and communities are essential to the health and well-being of pregnant women. The immediate causes of pregnancy-related complications, ill-health and death are inadequate care of the mother during pregnancy and delivery. More distal factors include women's subordinate status, poor health and inadequate nutrition. The health of pregnant women can be improved through effective antenatal care which also increases a mother's chances of giving birth to a healthy baby. While any woman can develop complications during pregnancy and delivery, many such complications can be prevented or treated before they become life-threatening emergencies, and all can be managed by appropriately trained and equipped health care providers. Interventions that are beneficial to mothers help babies too.

2.1 Antenatal care

Antenatal care - care during pregnancy - provides an important opportunity for discussion between a pregnant woman and a health care provider about healthy behaviour during pregnancy (such as adequate nutrition), about recognizing complications that may arise during pregnancy, and about a delivery plan that will meet the needs of the individual woman. Antenatal care is important also for preventive care, including tetanus toxoid immunization and provision of iron/folic acid tablets to prevent and treat anaemia. Finally antenatal care is important for early diagnosis and prompt

treatment for complications of pregnancy and other illness that can arise during pregnancy, such as sexually transmitted diseases (STDs), malaria, and helminth infections.

A WHO Technical Working Group⁵ has recommended a minimum of four antenatal visits for a woman with a normal pregnancy. However, some women will require more than four visits, especially those who develop complications. The World Health Organization is currently undertaking a multi-country study comparing four antenatal visits with the pattern of antenatal care otherwise followed.

2.2 Skilled attendant at delivery

The vast majority of women will need only basic care during labour and delivery. Cleanliness and the presence of skilled personnel will help to ensure that normal births are clean and safe and that obstetric complications are dealt with promptly. Doctors, midwives and nurses who attend deliveries must have the midwifery skills needed to recognise the onset of complications, perform essential interventions, start treatment and supervise the referral of mother and baby for the management of interventions which are beyond the caregiver's competence or not possible in that particular facility.⁶ They also must be able to monitor the condition of the fetus and provide care for infants after birth including for newborns who require special attention in the first critical hours of life to prevent neonatal morbidity and mortality. Basic care of the newborn, described in the World Health Organization guidelines for essential newborn care, includes cleanliness, warmth, early and exclusive breastfeeding, eye care, immunization and resuscitation when necessary.⁷ Although most babies are born healthy, problems do occur in some and health workers must be able to recognize them and respond appropriately.⁸

The person best able to assist normal deliveries and manage or refer complications is the person with midwifery skills who is part of and lives in the community she or he serves. However, in developing countries which have a shortage of well-trained health care personnel, pregnancy-related care is often provided by less qualified staff such as auxiliary nurse/midwives, village midwives, health visitors and *trained* traditional birth attendants (TBAs). Under certain circumstances this may prove inevitable. These persons have at least some training and frequently provide the backbone of maternity services at the periphery. The outcome of pregnancy and labour can be improved by making use of their services, especially if they are supervised by well-trained midwives. However, for the fulfilment of the complete set of tasks required to manage normal pregnancies and births and identify and manage or refer complications, their education, training and skills are insufficient and their background may mean that their practice is conditioned by strong cultural and traditional norms which may impede the effectiveness of their training. In many developing countries large numbers of deliveries take place outside the formal health care system altogether and women give birth alone or with the help of a relative or an untrained TBA.

2.3 Health facility and home deliveries

In industrialized countries and in many urban areas in the developing world, skilled care at delivery is usually provided in a health facility. In most developing countries, and particularly in rural areas, many women prefer to deliver in the familiar home environment or in the home of parents, parents-in-law or in a setting provided by the TBA. This document does not recommend any particular setting for birth; birth can take place in a range of appropriate places, from home to tertiary referral centre, depending on availability and need. Home delivery may be appropriate for normal deliveries, provided the person attending the delivery is suitably trained and equipped and referral to a higher level of care is an option.

2.4 Postpartum care

There has generally been less attention paid to the role and content of postpartum care than to other aspects of maternity care. Yet a large proportion of maternal morbidity and mortality occurs during the postpartum period. Early postpartum care is essential in order to diagnose and treat complications, such as puerperal infections, secondary postpartum haemorrhage and eclampsia, which are major causes of postpartum mortality. Postpartum care provides an opportunity to check on the general wellbeing of mother and infant, and to ensure that the infant is feeding well. This is also a time to discuss birth spacing and different methods of contraception.

3. COVERAGE OF MATERNITY CARE: DEFINITIONS AND SOURCES OF INFORMATION

3.1 Indicators

Indicators are markers of health status, service performance or resource availability defined to enable the monitoring of objectives, targets and service performance. Operationally, they can be used to measure progress towards established targets and goals including the monitoring of changes in the health status of the population. Process indicators of health care services can be used to monitor service performance at the facility, district and programme level.

Indicators for monitoring progress in pregnancy and delivery care which can also be measured at country level, are the presence of skilled personnel during childbirth, antenatal and postpartum care coverage, and deliveries at health facilities. Of these indicators, antenatal care and trained attendant at delivery⁹ are used to measure progress towards achieving the goals of the World Summit for Children, the World Health Organization's Ninth General Programme of Work, the 1987 Safe Motherhood Conference and Health for All by the Year 2000.

3.2 Definitions of health care providers and coverage of maternity care

The definitions of health care providers used in this document are as follows:

Skilled^a health personnel or skilled^a attendant: Doctors (specialist or non-specialist), and/or persons with midwifery^a skills who can diagnose and manage obstetrical complications as well as normal deliveries;

Person with midwifery^b skills: A person who has successfully completed the prescribed course in midwifery and is able to give the necessary supervision, care and advice to women during pregnancy, labour and the postpartum period, to conduct deliveries alone, to provide lifesaving obstetric care, and to care for the newborn and the infant;

Trained traditional birth attendant^c: A traditional birth attendant (TBA) who initially acquired her ability by delivering babies herself or through apprenticeship to other TBAs and

^a The term 'skilled' health personnel or attendant is used in this document to acknowledge the recently introduced revision of the global definition of 'trained attendant' so that it now explicitly excludes the category of *trained* TBA. 'Skilled' is used to emphasize the distinction between the old and the modified definitions

^b Adherence to the defined standards of midwifery skills is unknown, thus this indicator must also rely on countries' own requirements for midwifery personnel

^c Given the role of the *trained* traditional birth attendant (TBA) in many countries, in Section 8 this document lists deliveries attended by *trained* TBAs in a separate column. This category includes other attendants working within the formal health care system who do not meet the requirements of skilled^a health personnel

who has undergone subsequent extensive training and is now integrated in the formal health care system.

The definitions of rates of maternity care used in this document are as follows:

Antenatal care coverage: Percentage^d of women attended at least once during pregnancy by skilled^a health personnel *for reasons related to pregnancy*;

Deliveries attended by skilled^a health personnel: Percentage^d of deliveries attended by skilled^a health personnel irrespective of outcome (live birth or fetal death);

Deliveries in health facilities: Percentage^d of deliveries in public and private hospitals, clinics and health centres, irrespective of who attended the delivery at these facilities;

Postpartum care coverage: Percentage^d of women attended at least once during the postpartum period (42 days of delivery) by skilled^b health personnel *for reasons related to childbirth*.

3.3 Limitations of the indicators

The indicators listed have a number of limitations. For example, international comparability is limited unless the same definitions have been used in data collection and precision is highly dependant on the quality of data collection. Furthermore, the indicators listed here do not reflect the content and/or of the quality of care provided. Similar levels may therefore hide important discrepancies in actual care provided.

While these particular indicators have been defined for global use, country specific adaptations are common and, indeed, appropriate. For example, reports of maternity care coverage rarely specify the level and quality of the training the care provider received. National requirements on midwifery training vary: the joint definition^{e,10} of the International Confederation of Midwives (ICM), International Federation of Gynaecologists and Obstetricians (FIGO) and the World Health Organization is required to be country specific.

Rates of coverage of maternity care must be treated with caution in assessing the degree to which women are given the most appropriate and effective care, and prudence is warranted in making inter-country comparisons. For example, the antenatal care indicator does not take into account frequency or timing of visits, the quality of care, or service availability. There are differences in the level of training and skills of health care providers. In addition, deliveries in health facilities include those occurring in peripheral maternity centres as well as referral hospitals. Data and estimates in this document rely on the classification provided by the source of information.

^d The proportions of maternity care are expressed as percentages, using live birth as the denominator. Live births is used as a proxy for the total number of pregnancies

^e "A midwife is a person, who, having been regularly admitted to a midwifery education programme, duly recognised in the country in which she is located, has successfully completed the prescribed course of studies in midwifery and has acquired the requisite qualifications to be registered and/or legally licensed to practise midwifery. She must be able to give the necessary supervision, care and advice to women during pregnancy, labour and the postpartum period, to conduct deliveries on her own responsibility and to care for the newborn and the infant."

This care includes preventive measures, the detection of abnormal conditions in mother and child, the procurement of medical assistance and the execution of emergency measures in the absence of medical help. She has an important task in health counselling and education, not only for the woman but also within the family and community. The work should involve antenatal education and preparation for parenthood and extends to certain areas of gynaecology, family planning and child care. She may practice in hospitals, clinics, health units, domiciliary conditions or in any other service"

3.4 The database on coverage of maternity care

The data listings in Section 8 of this document are taken from the WHO/MSM database on maternity care. The database is intended to include all available published data on the proportion of women receiving at least some antenatal and postpartum care, the proportion of deliveries taking place in health facilities, and deliveries attended by skilled personnel, whether in health facilities or at home. Emphasis has been placed on gathering data from developing countries but information from industrialized countries is also included for comparison. The listings highlight countries and areas with little or no data, or no recent data, thus indicating where more information is most needed. A bibliographic database contains additional information on maternity care and related issues.

The data were originally compiled as a part of a wider review of maternal mortality and morbidity in preparation for the Safe Motherhood Initiative conference in Nairobi (1987). They were first issued in 1985, and updated in 1989 and 1993. This fourth edition includes information available until August 1996. Since the third edition, efforts have been made to distinguish three broad categories of attendant at delivery: namely doctors; midwives and nurses with midwifery skills; and *trained* TBAs. This provides a better indication of the level of skills actually available to women during childbirth. An annex to this edition, includes data on the number of visits and timing of first antenatal care visit.

Reports included in the data listing were identified through a search of library databases and by tracing references. Not all articles identified could be traced and the compilation is based on sources available at the headquarters of the World Health Organization, in Swiss libraries and in other reference centres. In addition, data from WHO supported country studies, studies supported by other UN agencies and NGOs, papers presented at meetings, unpublished reports as well as information provided by national authorities, other agencies and colleagues around the world are included.

The database on coverage of maternity care is continually being updated, and readers are encouraged to share their data and reports with us. Information should be sent to the Division of Reproductive Health (RHT), Maternal and Newborn Health/ Safe Motherhood (MSM), World Health Organization, 1211 Geneva 27, Switzerland.

This document is one in a series of informal information-exchange documents. Companion documents give information on Maternal Mortality Ratios and Rates (document number WHO/MCH/MSM/91), on the Frequency and Mortality of Unsafe Abortion (document number WHO/FHE/MSM/93.13), on Perinatal Mortality (document number WHO/FRH/MSM/96.7), on the Prevalence of Anaemia in Women (document number WHO/MCH/MSM/92.9), on the Prevalence of Primary and Secondary Infertility (document number WHO/MCH/91.9) and on Low Birth Weight (document number WHO/MCH/92.2).

4. ESTIMATING COVERAGE OF MATERNITY CARE

This fourth edition provides three estimates for each country, namely, the estimated proportion of pregnant women who had at least one antenatal visit, the proportion of deliveries taking place in health facilities and the proportion of deliveries attended by skilled personnel. The estimate of *skilled* personnel differs from the definition of *trained* attendant used until 1993; the estimates in this edition, now exclude the category of *trained* TBAs.

Reliable national data on coverage of maternity care are not always available. Systematic national data collection systems are often inadequate or absent. Estimates therefore rely on multiple sources, such as community-based studies, demographic and health surveys, and other reports. In some cases the data sources from which the three estimates are derived are not the same. The estimates of maternity care in Tables 1 and 4 rely on information available in the database on maternity care and listed in Section 8. Estimates were derived and aggregated as described below.

4.1 Country estimates

The country estimates presented in Table 4 are based on the analysis of data collected from a variety of sources and presented in the data listings of this document. National estimates are derived from the partial information contained in the country listings which relate to data collected over the past decade. The current estimates incorporate new data and replace the estimates issued in 1993. However, both sets of estimates include data from overlapping time periods. The estimates cannot, therefore, be used for trend analysis.

The accuracy and precision of estimates depends upon the quality of data on which they are based. Given the absence of standardized reporting systems, estimates should be interpreted with caution. Coverage of care can fluctuate, due, for example, to changes in the infrastructure and health services in countries, or the introduction of consumer fees¹¹. National estimates in this document should be viewed as indicating approximate orders of magnitude of coverage of care rather than precise figures. They pertain to a period of time, rather than to a specific point in time. Furthermore, these estimates of maternity care do not take account of variation in the quality or impact of care and should be interpreted accordingly.

4.2 Estimates for countries with no data

Countries for which no data were available were assumed to have similar coverage of maternity care as countries in the same United Nations sub-region and/or as countries having similar development and health indicators. In the absence of new data, it has been assumed that countries of the former USSR, which previously reported almost complete coverage for all three indicators, continue to have high rates of coverage. Where new data are available for these countries, they have been taken into account in calculating the estimates. Estimates not based on published supportive evidence have been used to calculate regional and global estimates but are not published in the country table (Table 4). Estimates for countries for which little data were available are rounded to the nearest five and marked with an asterisk (*) in Table 4 to show their larger margin of error.

4.3 Regional and global estimates

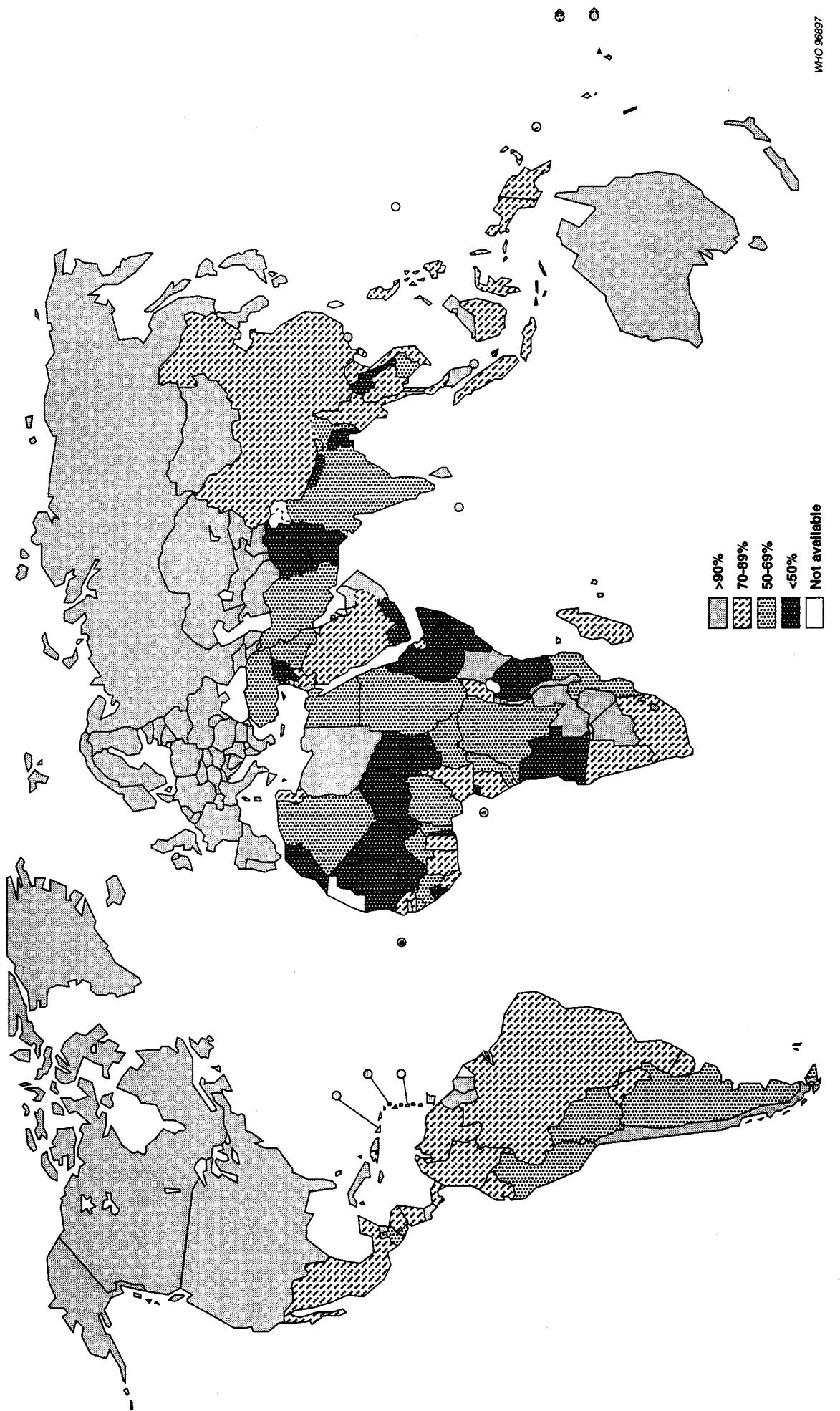
Estimated national rates of maternity care, weighted by the number of live births, were aggregated in order to calculate the sub-regional, regional and global estimates summarized in Table 1. The number of live births serves as a proxy for the number of pregnant women^f. In a few instances when the rate of deliveries in health facilities was higher than skilled attendant, the former was used when calculating regional and global estimates of skilled attendant at delivery assuming that skilled personnel were on hand.

To better indicate the magnitude of the gap in maternity care, Table 1 shows both the proportion and number of pregnant women receiving care, as well as the number **not** receiving care. The numbers have been calculated by applying the estimated rates to the annual average estimates of live births produced by the United Nations Population Division for the current five-year period ending in 2000.¹²

^f

It has been suggested that applying a raising factor of 15% to the total number of live births would provide the approximate number of pregnant women in need of care. However, for the purpose of international comparisons and monitoring over time, the denominator should be based on live births

Figure 1. Estimates of the proportion of pregnant women who received some antenatal care, by country (around 1996)



The designations employed and the presentation of material on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines represent approximate border lines for which there may not yet be full agreement.

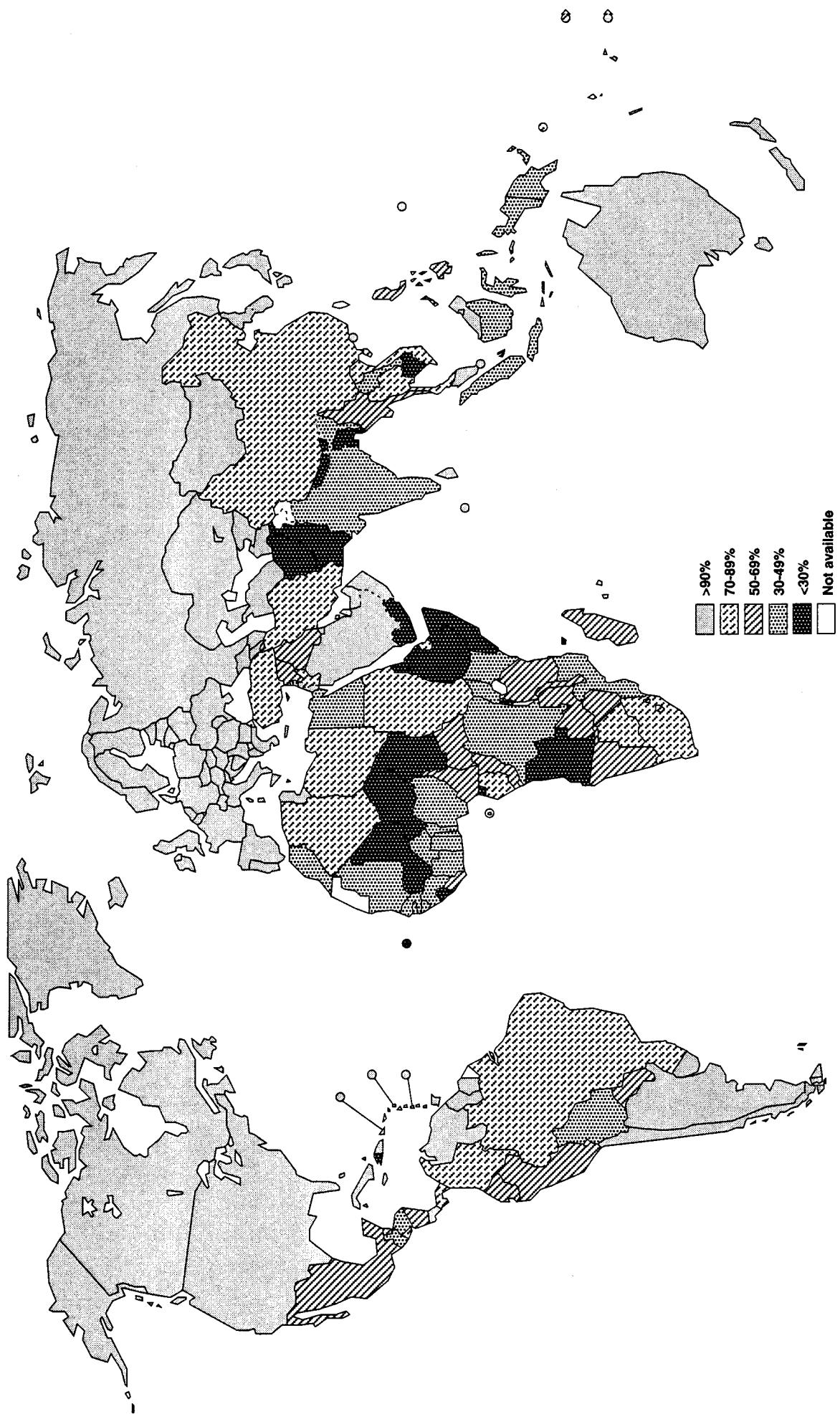


Figure 2. Estimates of the proportion of deliveries attended by skilled personnel, by country (around 1996)

The designations employed and the presentation of material on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines represent approximate border lines for which there may not yet be full agreement.

Table 1 Global and regional estimates of antenatal care, deliveries in health facilities and deliveries attended by skilled personnel (around 1996)

	Estimated % and number of pregnant women with						Estimated number of pregnant women NOT having		
	Antenatal care		Deliveries in health facilities		Skilled attendant at delivery		Antenatal care	Deliveries in health facilities	Skilled attendant at delivery
	%	1000s	%	1000s	%	1000s	1000s	1000s	1000s
World total	68	96010	46	64780	57	80690	44730	75960	60040
More developed regions	97	13880	98	14030	99	14160	480	330	200
Less developed regions	65	82130	40	50750	53	66540	44250	75630	59840
Africa	63	19290	36	11180	42	12790	11440	19550	17930
Eastern Africa	66	7040	32	3350	34	3570	3560	7240	7020
Middle Africa	58	2260	41	1610	42	1630	1630	2280	2270
Northern Africa	56	2730	39	1910	63	3080	2150	2980	1800
Southern Africa	89	1350	76	1150	79	1200	170	360	320
Western Africa	60	5910	32	3160	34	3310	3930	6680	6530
Asia*	65	53900	37	30890	53	44600	29510	52530	38820
Eastern Asia*	80	18440	54	12480	86	19830	4680	10650	3300
South-central Asia	52	22020	26	11090	34	14320	20100	31030	27800
South-eastern Asia	79	10140	33	4260	53	6810	2660	8540	5990
Western Asia	61	3300	57	3060	68	3630	2070	2310	1740
Europe	97	8100	97	8060	98	8170	230	270	160
Latin America & the Caribbean	73	8770	71	8570	75	9030	3240	3440	2980
Caribbean	88	710	70	560	71	570	90	240	240
Central America	70	2480	58	2060	65	2330	1090	1510	1240
South America	73	5580	78	5950	80	6130	2060	1690	1510
Northern America	95	4150	99	4340	99	4350	240	40	40
Oceania*	75	170	49	110	52	120	50	110	110

* Japan, Australia and New Zealand have been excluded from the regional estimates, but are included in the total for more developed regions.

Figures may not add to totals due to rounding.

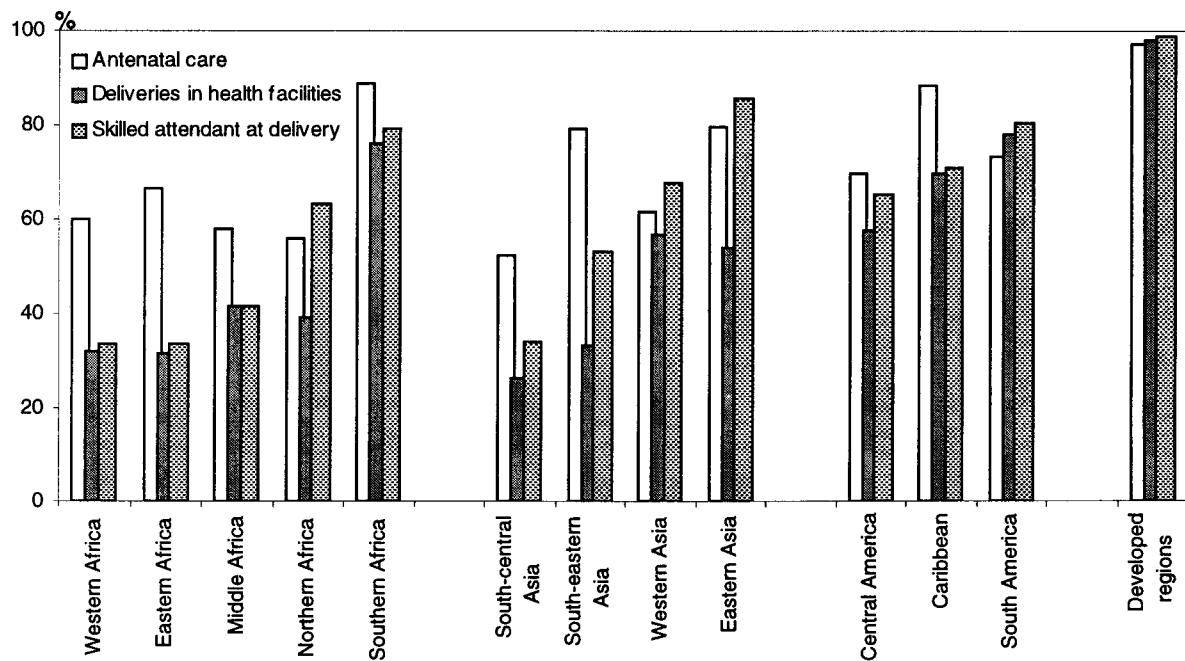
5. GLOBAL, REGIONAL AND NATIONAL ESTIMATES

5.1 Most recent global and regional estimates

The estimates of maternity care are summarized in Table 1 and shown in the world maps in Figures 1 and 2. The current global estimates show that in the developing world approximately 65% of pregnant women receive at least one antenatal care visit; 40% of deliveries take place in health facilities; and slightly more than half of all deliveries are assisted by skilled personnel. This contrasts sharply with developed countries where practically every woman receives regular care during pregnancy, delivery and the postpartum period. As we near the end of the 20th century, every year an estimated 45 million pregnant women still receive no antenatal care, more than 75 million births take place at home and 60 million women give birth with only a traditional birth attendant or a family member present; in many cases the mother is alone.

Within this global picture there are, however, significant regional and sub-regional differences. Antenatal care, deliveries in health facilities and skilled attendant at delivery are shown by subregions of the developing world and compared to developed regions in Figure 3.

Figure 3. Estimated percentage antenatal care, deliveries in health facilities and skilled attendant at delivery in some developing regions (Africa, Asia and Latin America) by UN sub-regions and developed regions (around 1996)*



* Source: Table 1

The regional and sub-regional estimates show that countries in Latin America have the highest rates of maternity care coverage in the developing world. Almost 75% of women receive antenatal care, have a skilled person attending at delivery, and give birth in a hospital or other health facility. Within the region, the coverage figures are lowest for the Central American sub-region.

In Asia coverage of antenatal care, deliveries in health facilities and deliveries attended by skilled personnel are 65%, 37% and 53% respectively. Extreme subregional variations exist. In

Eastern Asia, for example, some 80% of women receive antenatal care, nearly 90% have a skilled attendant at delivery while little more than half of all deliveries take place in health facilities. This contrasts sharply with South-Central Asia where 52% receive antenatal care, but only one woman in three has a skilled health attendant at delivery and only one in four deliveries take place in a health facility. These low estimates are particularly striking since some countries in the sub-region have a very high coverage of care (Table 4). In Western Asia almost 70% of deliveries take place with skilled health personnel, but antenatal care coverage is lower at 61%. In South-eastern Asia there is generally high antenatal care coverage (79%) yet a relatively low rate of deliveries with skilled personnel (53%) and deliveries in health facilities (33%).

Similarly, there are sharp contrasts in Africa, the region with the lowest rates for the three indicators: 63% antenatal care, 36% deliveries in health facilities and just over 40% with skilled attendant at delivery. At the high end, in the Southern Africa subregion, close to 90% of women receive antenatal care and almost 80% have skilled personnel at delivery. In Northern Africa, on the other hand, antenatal care coverage is below 60%, while just over 60% of deliveries take place with the assistance of skilled personnel, and two-thirds in health facilities. The antenatal care rate in Northern Africa is comparable to that of Middle, Eastern and Western Africa where, however, generally fewer than 40% of deliveries take place with a skilled care provider present and/or in a health facility.

5.2 Postpartum care

Postpartum care has been a relatively neglected aspect of maternity care. Less than one-third of developing countries report national data, and levels of coverage are as low as 5%. The lack of reporting of postpartum care is an indication of the low priority placed on this aspect of care which does not feature in the goals of major international conferences. Estimates based on the limited data available indicate coverage of postpartum care below 30% for developing countries and a global estimate of 35% (Table 2). This low level of care is disturbing, since timely interventions during the postpartum period can prevent deaths of both mothers and newborn infants, and can reduce the incidence of long-term pregnancy-related morbidities.

Table 2. Global estimates of women receiving postpartum care from skilled attendant (around 1996)

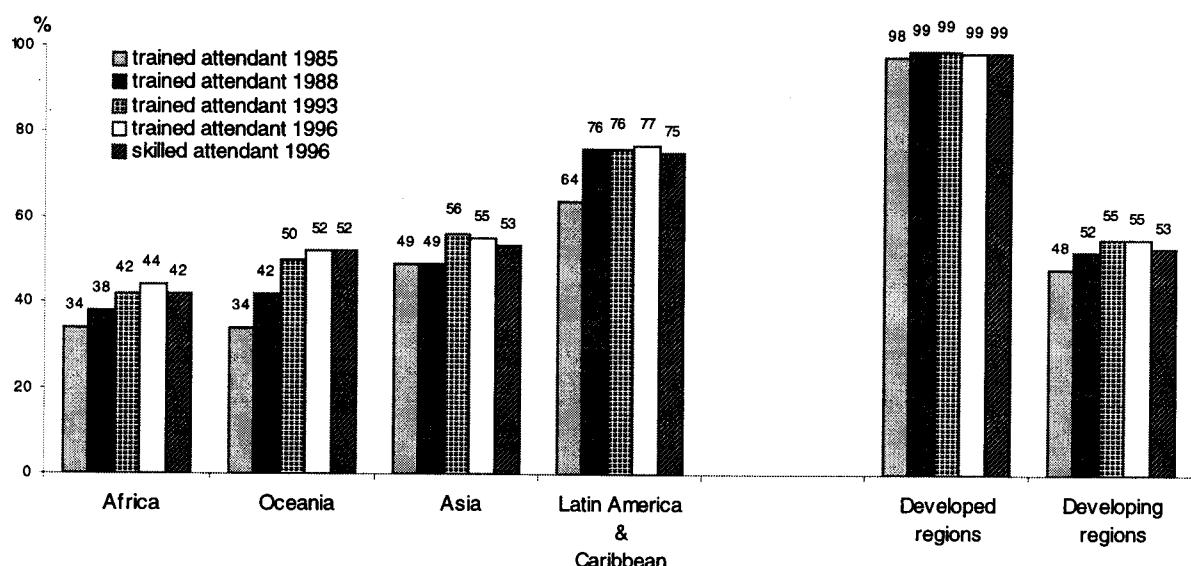
	Estimated percentage receiving postpartum care %	Estimated number receiving postpartum care 1000s	<i>Estimated number not receiving postpartum care 1000s</i>
WORLD	35	48 600	92 100
MORE DEVELOPED REGIONS	90	12 500	1 900
LESS DEVELOPED REGIONS	<30	36 100	90 200

5.3 Comparison with earlier estimates

Figure 4 shows the estimates of *trained attendant* at delivery in 1985, 1988, 1993 and 1996, compared to the 1996 estimate for delivery with *skilled personnel* for Africa, Asia, Oceania and Latin America as well as developed and developing regions (see Table 1 for current sub-regional estimates).

Although the proportion of women who deliver with trained assistance has increased in all regions of the world since 1985 the increase is small in magnitude - from 48% to 55% for developing regions. Excluding trained TBAs has relatively little effect on estimates; in 1996 53% of women in developing countries gave birth with a skilled attendant.

Figure 4 Regional estimates for developing regions (Africa, Asia, Oceania and Latin America) and developed regions 1985 - 1996 of attendant at delivery



Source: Coverage of maternity care (editions 1-3) and Table 1

5.4 Maternity care - an area for concern

The three subregions with the lowest coverage of care in pregnancy and at delivery (34%) together account for almost half of all deliveries. These subregions, namely South-central Asia with 30% of the world's births, and Western and Eastern Africa which together have 15% of the births, therefore, contribute heavily to the numbers of deliveries taking place without skilled personnel worldwide. Not surprisingly these same regions show high maternal mortality ratios and perinatal mortality rates.^{4,5} Global and regional estimates mask a wide range of sub-regional differences. Subregions themselves are not homogenous, hiding disparities between individual countries.

In less developed regions 35% of pregnant women receive no antenatal care at all during pregnancy (Table 1). Sixty-five percent have at least one antenatal care visit. However this does not take account of content and quality of care, the frequency of visits, or the stage of pregnancy at which care began. A review of national data for 49 developing countries on the frequency and month of first antenatal care visit (Annex A) shows some of the variations within the aggregate estimates of

antenatal care. While the countries reviewed are not necessarily representative of all developing countries, the data show that women receiving antenatal care utilize the services repeatedly. Between 70% and 90% of women receiving some antenatal care return for a second visit. The proportion of women continuing care for 4 visits or more is, however, markedly lower. Data on the timing of the first antenatal visit reveal care usually starts some time in the first 5 or 6 months. The month in which care starts appears to be unrelated to the overall level of antenatal care in the country.

A striking feature for most developing countries is that the proportion of women receiving antenatal care is distinctly higher than the proportion of women receiving care by skilled personnel at delivery. However, in a few countries *fewer* women receive antenatal care than care at delivery, for example, in Northern Africa .

Data on the percentage of women receiving both antenatal and skilled delivery care in 48 developing countries (Annex B) show that, while 1/3 of those receiving antenatal care do not have skilled health personnel at delivery, in countries with low levels of skilled attendant at delivery, as many as 3 in 4 women have only antenatal care. Thus, the proportion of women receiving only antenatal care increases with decreasing levels of delivery care. At the same time, practically every woman who delivers with a skilled attendant has already attended antenatal care.

5.5 National estimates

The individual country estimates in Table 4, are based on the analysis of data available up to August 1996. The methodology used to arrive at these estimates is described in Section 4. Estimates for countries for which limited data were available are rounded to the nearest five per cent and marked with an asterisk (*) to show their larger margin of error. Individual country data are available in the country listings in Section 8, and from companion documents.^{4,13,14,15,16,17} Estimates of maternity care should be treated with caution in assessing the degree to which women are given the most appropriate and effective care.

It should be emphasized that the national estimates presented below should be regarded as *the best estimates possible on the basis of information available* using the methods indicated above. Country estimates should be understood as *indicating orders of magnitude* rather than precise figures. The estimates may differ from countries' own estimates and national authorities are invited to notify significant differences to WHO, specifying the sources and values used for calculating their figures.

Table 4 National estimates of antenatal care, deliveries in health facilities and deliveries with skilled attendant in developing countries

	Antenatal care		Deliveries in health facilities		Skilled attendant at delivery		
	%	1000s	%	1000s	%	1000s	
AFRICA							
Eastern Africa							
Burundi	88	250	20	60	24	70	
Comoros	69	20	20*	10	24	10	
Djibouti	76	20	75*	20	79	20	
Eritrea	19	30	5*	10	6	10	
Ethiopia	20	540	8	220	8	220	
Kenya	95	1240	44	570	45	590	
Madagascar	78	520	45	300	57	380	
Malawi	90	500	55	300	55	300	
Mauritius	99	20	95	20	97	20	
Mozambique	54	400	27	200	30	220	
Reunion	95*	10	96	10	97	10	
Rwanda	94	340	25	90	26	90	
Somalia	40*	190	2	10	2	10	
Uganda	87	970	30*	330	38	420	
United Rep. of Tanzania	92	1200	53	690	44	690	
Zambia	92	390	51	220	51	220	
Zimbabwe	93	400	69	300	69	300	
Middle Africa							
Angola	25	150	16	90	17	100	
Cameroon	73	410	62	350	58	350	
Central African Republic	67	90	50	70	46	70	
Chad	30	90	15*	40	15	40	
Congo	55*	70	n.a.		50*	+60	
Equatorial Guinea	37	10	5	<1	5	<1	
Gabon	86	50	79	40	80	40	
Zaire	66	1410	n.a.		n.a.		
Northern Africa							
Algeria	58	470	76	610	77	620	

* rounded ; n.a. data not available; For explanations see Section 4. ° locally defined

	Antenatal care		Deliveries in health facilities		Skilled attendant at delivery	
	%	1000s	%	1000s	%	1000s
Egypt	53	920	27	470	46	800
Libyan Arab Jamahiriya	100	240	n.a.		76	180
Morocco	45	320	37	270	40	290
Sudan	54	620	18	210	86°	990
Tunisia	71	150	86	180	90	190
Southern Africa						
Botswana	92	50	66	40	77	40
Lesotho	91	70	50	40	50	40
Namibia	88	50	67	40	68	40
South Africa	89	1150	79	1020	82	1060
Swaziland	70	20	56	20	56	20
Western Africa						
Benin	60	160	20	50	38	100
Burkina Faso	59	290	43	210	43	210
Cape Verde	99	10	n.a.		n.a.	
Cote d'Ivoire	83	610	45	330	45	330
Gambia	91	40	n.a.		44	20
Ghana	86	640	42	310	44	330
Guinea	59	200	25	90	31	110
Guinea-Bissau	50	20	n.a.		n.a.	
Liberia	83	120	n.a.		58	90
Mali	25	140	24	130	24	130
Mauritania	49	50	40	40	40	40
Niger	30	150	16	80	15	80
Nigeria	60	3050	31	1580	31	1580
Senegal	74	270	47	170	47	170
Sierra Leone	30*	70	20*	40	25*	60
Togo	43	80	8	10	32	60
ASIA						
Eastern Asia						
China	79	17060	51	11070	85	18450
Dem. Peo. Rep. of Korea	100	540	100*	540	100	540
Hong Kong	100	60	100	60	100	60

* rounded ; n.a. data not available; For explanations see Section 4. ° locally defined

	Antenatal care		Deliveries in health facilities		Skilled attendant at delivery	
	%	1000s	%	1000s	%	1000s
Mongolia	90	60	97	70	97	70
Republic of Korea	96	710	99	740	95	710
South-central Asia						
Afghanistan	8	90	5*	90	8	90
Bangladesh	23	960	5	210	14	590
Bhutan	51	30	11	10	12	10
India	62	16150	26	6770	35	9120
Iran (Islamic Republic of)	62	1430	65	1500	74	1700
Kazakhstan	92	300	95*	320	99	320
Kyrgyzstan	90*	110	95*	120	95*	120
Maldives	95	10	n.a.		90	10
Nepal	15	130	6	50	8	70
Pakistan	27	1520	13	730	18	1010
Sri Lanka	100	360	94	340	94	340
Tajikistan	90*	200	92	200	92	200
Turkmenistan	90*	110	90*	110	90*	110
Uzbekistan	90*	610	90*	630	90*	630
South-eastern Asia						
Brunei Darussalam	100	10	98	10	98	10
Cambodia	52	210	7	30	21	90
East Timor	n.a.		n.a.		n.a.	
Indonesia	82	3890	18	850	36	1710
Lao People's Dem. Rep.	25	50	7	10	30*	60
Malaysia	90	480	90	480	98	520
Myanmar	80	1190	n.a.		52	770
Philippines	83	1650	28	560	53	1050
Singapore	100	40	99	40	100	40
Thailand	77	890	n.a.		71	820
Viet Nam	78	1710	70	1540	79	1730
Western Asia						
Armenia	95*	60	95*	60	95*	60
Azerbaijan	95*	140	95*	140	95*	140
Bahrain	96	10	97	10	94	10

* rounded ; n.a. data not available; For explanations see Section 4. ° locally defined

	Antenatal care		Deliveries in health facilities		Skilled attendant at delivery	
	%	1000s	%	1000s	%	1000s
Cyprus	100	10	98	10	98	10
Georgia	95*	80	95*	80	95*	80
Iraq	59	470	49	390	54	430
Israel	90	100	99	110	99	110
Jordan	80	180	78	170	87	190
Kuwait	99	40	97	40	99	40
Lebanon	85	60	n.a.		45	30
Oman	98	100	82	80	92	90
Qatar	100	10	87	10	97	10
Saudi Arabia	87	590	86	580	90	610
Syrian Arab Republic	33	210	37	230	67	420
Turkey	62	990	60	960	76	1210
United Arab Emirates	95	40	95	40	96	40
Yemen	26	190	12	90	16	120
LATIN AMERICA & THE CARIBBEAN						
Caribbean						
Bahamas	100	10	99	10	100	10
Barbados	98	0	98	0	98	0
Cuba	100	170	99	170	99	170
Dominican Republic	97	190	92	180	90	180
Guadalupe	n.a.		n.a.		n.a.	
Haiti	68	180	20	50	20	50
Jamaica	98	50	79	40	92	40
Martinique	n.a.		n.a.		n.a.	
Netherlands Antilles	95*	<1	95*	<1	95*	<1
Puerto Rico	99	60	99	60	99	60
Trinidad and Tobago	98	30	96	20	98	30
Central America						
Belize	96	10	76	10	77	10
Costa Rica	95	80	98	90	97	90
El Salvador	69	130	51	100	87	170
Guatemala	53	220	23	100	35	150

* rounded ; n.a. data not available; For explanations see Section 4. ° locally defined

	Antenatal care		Deliveries in health facilities		Skilled attendant at delivery	
	%	1000s	%	1000s	%	1000s
Honduras	73	150	45	90	47	100
Mexico	71	1720	63	1530	69	1670
Nicaragua	71	120	59	100	61	110
Panama	72	40	84	50	84	50
South America						
Argentina	n.a.		90	630	96	670
Bolivia	52	140	42	110	46	120
Brazil	74	2820	81	3090	73	3090
Chile	91	270	98	290	98	290
Colombia	83	670	77	620	85	680
Ecuador	75	230	64	200	64	200
Guyana	95	20	90	20	93	20
Paraguay	83	130	55	90	66	100
Peru	64	410	46	290	53	340
Suriname	100	10	n.a.		91	10
Uruguay	80	40	96	50	96	50
Venezuela	74	420	97	560	97	560
OCEANIA						
Melanesia						
Fiji	100	20	95*	20	100	20
New Caledonia	98	<1	n.a.		98	<1
Papua New Guinea	70	100	n.a.		33	50
Solomon Islands	71	10	80	10	85	10
Vanuatu	90	10	65	<1	79	<1
Micronesia						
Guam	97	<1	99	<1	100	<1
Polynesia						
French Polynesia	95	10	98	10	98	10
Samoa	52	<1	n.a.		52	<1

* rounded ; n.a. data not available; For explanations see Section 4.

6. THE DATA LISTINGS: MATERIALS AND METHODS

In the data lists in Section 8, findings of individual surveys or reports are summarized in **data sets**. Each line represents a single data set. Where a report or study deals with two or more distinct population groups or points in time, each is contained in a separate data set and is assigned its own line. The data are listed by country; within countries, national data are listed first, followed by places or localities presented alphabetically and in chronological order. The present document lists information obtained for 1975 or later.

6.1 Data sources

The sources from which the data were extracted are listed in Section 9. For ease of identification the number of each bibliographic source corresponds to its reference number on the database on Maternity Care. The numbers are, therefore, not contiguous.

6.2 Terminology and definitions

The terminology and definitions defined above (Sections 3.2-3.3) have been used as far as possible. However, in drawing upon data for individual countries, the prevailing nomenclature and training requirements of each country have generally been accepted.

For all of Latin America only "obstera/obstetrix" and "partera" (unless indicated otherwise) and for French speaking Africa only "sage-femme" have been understood to mean a recognized midwife, although the length and quality of training varies considerably between different countries. On the other hand "partera empirica", "comadrona", "chae" and "matrone" etc. are considered to be untrained TBAs and are not included in figures on skilled personnel.

6.3 Calculations

Rates were calculated whenever the necessary data were provided, and reported rates were verified and corrected when necessary. The rates are calculated as a percentage.

6.4 Criteria for inclusion

The quality of studies varies considerably and reports do not always give an account of definitions, sampling and procedures, which would be necessary for a thorough assessment of reliability. Nevertheless, every effort has been made to ensure adherence to acceptable standards. Responsibility for the accuracy of the data rests with the authors of the individual reports. Sampling restrictions or deviations from definitions have, as far as possible, been registered in the 'Notes' section of the lists.

To enhance the composite picture, data from regions, subregions and even villages have been included, where available, in addition to national reporting.

6.5 Comparisons

Some cautious conclusions may be drawn from the information presented, but the data are not suited for statistical comparison. As each line in the listing represents a single data set, individual items of data cannot be dissociated from the total information of the set.

6.6 Description of the data set

The lists have 14 columns, namely:

- Column 1** **Region, country or area.** Countries are arranged by geographical region as defined by the United Nations. Within countries, national data are listed first, followed by places or localities listed alphabetically and in chronological order, starting with the most recent data. Unidentified locations have been marked "unknown" or, for example, "rural area" (if this much is known).
- Column 2** **Year.** Indicates the year or period for which the data were collected. "P" indicates the year of publication if the year of the study was not provided.
- Column 3** **Antenatal care.** Percent pregnant women receiving at least one antenatal care visit.
- Column 4** **Deliveries in health facilities.** Percent deliveries taking place in public or private hospitals, clinics and health centres.
- Column 5-8** **Attendant at delivery** as indicated by the sub-heading of each column. Deviations from the heading of the column are registered in the notes column.
- Column 5** Percent deliveries attended by a medical doctor.
- Column 6** Percent deliveries attended by a midwife or nurse-midwife.
- Column 7** Percent deliveries attended by *trained* traditional birth attendant or analogous.
- Column 8** Percent deliveries attended by skilled personnel is the sum of columns 5 and 6.
- Column 9** **Postpartum care.** Percent women receiving at least one postpartum care visit.
- Column 10** **Source.** Identifies the provider of the data. This is, however, not necessarily the same source as collected the data. A blank indicates in most cases that data are collected by individual researchers or research teams.
- Column 11** **Data Type.** Describes the nature or source of data: sample or estimate. A random sample or consecutive patients during the study period have been identified as a sample. A blank in this column may indicate that the source of the data was not properly described to allow classification.
- Column 12** **Sample Size.** This is the number of events or individuals for which data was available, and corresponds to the denominator for the calculations of percentages. The number is followed by letters B, C, D, E, W, m or w alone or in combination to identify the event or individual (see Abbreviations, below).
- Column 13** **Notes.** The notes column contains additional information and explanations. The symbols *, °, ', ^ link the information to a specific column.
- Column 14** **Reference number.** The data in the listings are extracted from sources that are identified by four-digit numbers that correspond to the number assigned to each

reference in the WHO/MSM bibliographic database. The references used in the listings are presented in section 9.

6.6 Abbreviations

+	and, in addition to
* ° † ^	links column notes to a specific column
AFRO	WHO/African Regional Office
AKF	Aga Khan Foundation
B	births
C	children
contr.gr.	control group
CPS	Country population study
D	deliveries
DHS	Demographic and Health Surveys
E	estimate/d
EMRO	WHO/Eastern Mediterranean Regional Office
EPI	WHO/Extended Programme on Immunization
EURO	WHO/European Regional Office
FIGO	International Federation of Gynaecologists and Obstetricians
Govt	Government
GHA	governments' HFA reporting
HFA	Health For All 2000
incl.	including
inst.	institutional
LB	live birth
mW	married women
N	sample size
n.a.	not available
P	year of publication
PAHO	Pan American Health Organization
PHC	Primary Health Care
prel.	preliminary
SEARO	WHO/South Eastern Asia Regional Office
TBA	Traditional birth attendant
tr. TBA	<i>trained</i> traditional birth attendant
UNFPA	United Nations Population Fund
UNICEF	United Nations Children's Fund
w	weighted
W	women
WHO	World Health Organization
WPRO	WHO/Western Pacific Regional Office

7. REFERENCES

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17. World Health Organization (WHO). *Infertility* (WHO/MCH/92.2). Geneva, 1992.

8.LISTINGS OF AVAILABLE INFORMATION

8.1 Countries with more than 300 000 inhabitants, or with data in the database, by geographical region

AFRICA		
EASTERN AFRICA		
Burundi	Netherlands Antilles	Iraq
Comoros	Puerto Rico	Israel
Djibouti	St Lucia	Jordan
Eritrea	St Vincent	Kuwait
Ethiopia	St Kitts and Nevis	Lebanon
Kenya	Trinidad and Tobago	Oman
Madagascar	CENTRAL AMERICA	Qatar
Malawi	Belize	Saudi Arabia
Mauritius	Costa Rica	Syrian Arab Republic
Mozambique	El Salvador	Turkey
Reunion	Guatemala	United Arab Emirates
Rwanda	Honduras	Yemen
Seychelles	Mexico	
Somalia	Nicaragua	
Tanzania, United Rep. of	Panama	
Uganda	SOUTH AMERICA	
Zambia	Argentina	EUROPE
Zimbabwe	Bolivia	EASTERN EUROPE
MIDDLE AFRICA		
Angola	Brazil	Belarus
Cameroon	Chile	Bulgaria
Central African Republic	Colombia	Czech Republic
Chad	Ecuador	Hungary
Congo	Guyana	Moldova, Rep. of
Equatorial Guinea	Paraguay	Poland
Gabon	Peru	Romania
Soa Tome and Principe	Surinam	Russian Federation
Zaire	Uruguay	Slovak Republic
NORTHERN AFRICA		
Algeria	Venezuela	Ukraine
Egypt	NORTHERN AMERICA	NORTHERN EUROPE
Libyan Arab Jamahiriya	Canada	Denmark
Morocco	United States of America	Estonia
Sudan		Finland
Tunisia		Iceland
SOUTHERN AFRICA		
Botswana		Ireland
Lesotho		Latvia
Namibia		Lithuania
South Africa		Norway
Swaziland		Sweden
WESTERN AFRICA		
Benin		United Kingdom
Burkina Faso		SOUTHERN EUROPE
Cape Verde		Albania
Cote d'Ivoire		Bosnia and Herzegovina
Gambia		Croatia
Ghana		Greece
Guinea		Italy
Guinea-Bissau		Macedonia, TFYR
Liberia		Malta
Mali		Portugal
Mauritania		Slovenia
Niger		Spain
Nigeria		Yugoslavia
Senegal		WESTERN EUROPE
Sierra Leone		Austria
Togo		Belgium
LATIN AMERICA		
CARIBBEAN		
Antigua and Barbuda		France
Bahamas		Germany
Barbados		Luxembourg
Cuba		Netherlands
Dominica		Switzerland
Dominican Republic		
Grenada		
Guadeloupe		
Haiti		
Jamaica		
Martinique		
ASIA		
EASTERN ASIA		
China		OCEANIA
Dem. Peo. Rep. of Korea		Australia
Hong Kong		Fiji
Japan		French Polynesia
Macao		Guam
Mongolia		Kiribati
Republic of Korea		New Caledonia
SOUTH-CENTRAL ASIA		
Afghanistan		New Zealand
Bangladesh		Papua New Guinea
Bhutan		Samoa
India		Solomon Islands
Iran, Islamic Republic of		Tonga
Kazakhstan		Vanuatu
Kyrgyzstan		
Maldives		
Nepal		
Pakistan		
Sri Lanka		
Tajikstan		
Turkmenistan		
Uzbekistan		
SOUTH-EASTERN ASIA		
Brunei Darussalam		
Cambodia		
East Timor		
Indonesia		
Lao People's Dem. Rep.		
Malaysia		
Myanmar		
Philippines		
Singapore		
Thailand		
Viet Nam		
WESTERN ASIA		
Armenia		
Azerbaijan		
Bahrain		
Cyprus		
Georgia		

8.2 List of countries, alphabetically

Afghanistan	72	Guyana	64	Saudi Arabia	84
Albania	92	Haiti	55	Senegal	47
Algeria	39	Honduras	59	Sierra Leone	48
Angola	37	Hong Kong	70	Singapore	80
Antigua and Barbuda	54	Hungary	92	Slovak Republic	89
Argentina	61	Iceland	93	Slovenia	95
Armenia	85	India	73	Solomon Islands	104
Australia	98	Indonesia	80	Somalia	34
Austria	95	Iran, Islamic Republic of	77	South Africa	42
Azerbaijan	85	Iraq	85	Spain	95
Bahamas	54	Ireland	93	Sri Lanka	76
Bahrain	85	Israel	85	St Lucia	52
Bangladesh	72	Italy	94	St Kitts and Nevis	52
Barbados	54	Jamaica	55	Sudan	40
Belarus	92	Japan	70	Surinam	60
Belgium	95	Jordan	85	Swaziland	43
Belize	57	Kazakhstan	77	Sweden	92
Benin	46	Kenya	31	Switzerland	98
Bhutan	72	Kuwait	86	Syrian Arab Republic	85
Bolivia	61	Kyrgyzstan	77	Tajikstan	76
Bosnia and Herzegovina	94	Lao People's Dem. Rep.	81	Tanzania, United Rep. of	34
Botswana	44	Latvia	93	Thailand	80
Brazil	61	Lebanon	86	Togo	48
Brunei Darussalam	80	Lesotho	44	Trinidad and Tobago	52
Bulgaria	92	Liberia	48	Tunisia	40
Burkina Faso	46	Libyan Arab Jamahiriya	40	Turkey	85
Burundi	30	Lithuania	93	Turkmenistan	76
Cambodia	80	Luxembourg	95	Uganda	35
Cameroon	37	Macao	70	Ukraine	89
Canada	68	Macedonia, TFYR	94	United States of America	63
Cape Verde	46	Madagascar	33	United Arab Emirates	86
Central African Republic	37	Malawi	33	United Kingdom	92
Chad	37	Malaysia	78	Uruguay	60
Chile	62	Maldives	75	Uzbekistan	76
China	70	Mali	45	Vanuatu	104
Colombia	63	Malta	95	Venezuela	61
Cornoros	30	Martinique	51	Viet Nam	81
Congo	38	Mauritania	46	Yemen	86
Costa Rica	57	Mauritius	33	Yugoslavia	94
Cote d'Ivoire	46	Mexico	54	Zaire	38
Croatia	94	Moldova, Rep. of	88	Zambia	35
Cuba	54	Mongolia	68	Zimbabwe	36
Cyprus	85	Morocco	40		
Czech Republic	92	Mozambique	34		
Dem. Peo. Rep. of Korea	71	Myanmar	79		
Denmark	93	Namibia	42		
Djibouti	30	Nepal	75		
Dominica	54	Netherlands	98		
Dominican Republic	54	Netherlands Antilles	51		
East Timor	80	New Caledonia	103		
Ecuador	64	New Zealand	103		
Egypt	39	Nicaragua	54		
El Salvador	57	Niger	46		
Equatorial Guinea	38	Nigeria	46		
Eritrea	30	Norway	91		
Estonia	93	Oman	84		
Ethiopia	30	Pacific Islands	103		
Fiji	98	Pakistan	75		
Finland	93	Panama	55		
France	95	Papua New Guinea	103		
French Polynesia	98	Paraguay	60		
Gabon	38	Peru	60		
Gambia	47	Philippines	79		
Georgia	85	Poland	88		
Germany	95	Portugal	95		
Ghana	47	Puerto Rico	52		
Greece	94	Qatar	84		
Grenada	51	Republic of Korea	68		
Guadeloupe	55	Reunion	34		
Guam	98	Romania	89		
Guatemala	58	Russian Federation	89		
Guinea	48	Rwanda	34		
Guinea-Bissau	48	Samoa	103		

8.3 Africa

COVERAGE OF MATERNITY CARE IN AFRICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %				Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or Nurse (2)	Trained TBA	Skilled (1+2)						
EASTERN AFRICA													
BURUNDI	1994	88	20					24°	GHA	E			
National	1993	P	80					25°	UNFPA				11220
National	1991	P	30					20°	HFA				4096
National	1989	P	79	24	1	18*	19		DHS	S	3841	B	3998
National	1982-87								UNICEF	S			2033
National	1984-85								WHO				1795
National	1980-84								WHO				1905
National	1980								UNFPA				2618
National	1979								DHS	S			834
National	1978								WHO				834
National	1982-87								UNFPA				727
National, rural	1982-87	97						17	DHS	S			1795
National, urban	1982-87	80						85	DHS	S			1795
Central plateau	1982-87	94						15	DHS	S			1795
Imbo	1982-86	79						68	DHS	S			1795
Muminwa/Mugamba	1982-87	69						21	DHS	S			1795
Plains	1982	57						8	DHS	S			1905
Ruyega									DHS	S			
COMOROS	1989	P	69					24°	HFA				
National	1982	P	69	35					WHO				2033
National	1982								UNFPA				834
National	1981								WHO				834
DJIBOUTI	1987							79°	HFA				
National	1985								EMRO				2033
National	1984								EMRO				1888
National	1978								EMRO				1888
National	1984-85								Govt.				1888
Djibouti city	1984-85												3429
Djibouti city	1986												3423
ERITREA	1983-95	49						21	DHS	S			
National	1993	19						6	UNICEF	S			11426
National, rural	1993-95	39						9	DHS	S			11422
National, urban	1993-95	89						63	DHS	S			11426
Akele Guzai province	1994							37					10998
ETHIOPIA	1988-93								GHA	S			
National	1988-91	25*						3°					11220
National	1989	P	20					8°	HFA				9839
National	1984		14					10°	WHO				2033
National	1980	P						58°	UNFPA				834
National	1988-91							10-15					731
National, rural	1984								AFRO				9839
National, urban	1988-91								AFRO				2008
National, urban	1984								AFRO				9839
													2008

Reported ranges; ° skills n.s.
 52 dist. s (app. 40% of pop.); * possibly overest.; ° n.s.
 ° skills n.s.
 ° skills n.s.
 ° skills n.s.
 ° skills n.s.
 ° range 3-68 (possibly overest.); * range 1-32, skills n.s.
 EP/MCH; ° skills n.s.
 * range 5-56 (possibly overest.); ° range 4-15, skills n.s.
 EP/MCH; ° skills n.s.

ETHIOPIA cont.

COVERAGE OF MATERNITY CARE IN AFRICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %			Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA						
12 areas	1981-83	48					3°		S	5394	° skills n.s.	1318
Ado-a district	1990-91	70	56						S	567	W	9697
Addis Ababa	1981-83	61							S	8724	W	1979
Addis Ababa, Gulele district	1991	61							S	441	W	4030
Addis Ababa, Gulele district	1991	49	29	5°			34		S	444	W	10379
Gondar region	1989	P	49	29			37°		S	835	W	4457
Gondar region	1988	P	49	29			77°		S	835	W	2056
Gondar region	1988	P	61	29	1°		30		S	861	W	2056
Gondar region	1985	P	62	29					S	861	W	4457
W.Shoa adm.region, Enemore Awraja	1982	P	7	3					S	669	W	4070
Wollo region	1987-88		1						E	B		3474
KENYA												
National	1988-93	95	44	12	33	9	45	DHS	S	6062	B	8446
National	1984-89	77	16	34	50	50	DHS	DHS	S	7050	B	2253
National	1979	63										365
National	1977	60										492
National, rural	1988-93	94	39	11	30	9	41	DHS	S	5289		8446
National, rural	1984-89	76	15	30	30	9	46	DHS	S	6040	B	2253
National, rural	1984	P	80	36					S	1065	W	899
National, rural	1975-76	84	26						S	2223	D	773
National, urban	1988-93	98	77	24	56	4	80	DHS	S	773		8446
National, urban	1984-89	82	23	54	77			DHS	S	979	B	2253
3 divisions	1984-85	36						EPI	S			1360
Central province	1988-93	98	72	19	55	0.4	74	DHS	S	697		8446
Central province	1984-89	69	35	38	38			DHS	S	969	B	2253
Chogoria	1980-85	96	69	*	*		3	DHS	S	1402	W	4488
Coast province	1988-93	90	31	12	20	6	32	DHS	S	540		8446
Coast province	1984-89	69	14	14	27	41	DHS	DHS	S	423	B	2253
Coast province, Kwale district	1987		28	10	10	10		E		21894	D	3419
Coast province, Kwale district	1984-87	72	10									2275
Coast province, Kwale district	1987	13										3419
Coast province, Kwale district	1989	87										3958
Eastern province	1988-93	97	46	11	36	10	46	AKF	S	1227		8446
Eastern province	1984-89	80	13	28	41	41	DHS	DHS	S	1233	B	2253
Kilifi district	1989		18									4057
Kilifi district	1987		15									3419
Kisi district, Ifanyi division	1988	P	38									3424
Kisumu district	1984		89									3958
Lamu	1987		22									3419
Machakos	1982	P	25									475
Meru district, Igambe division	1988	P	45									3424
Mombassa	1987		75									3419
Nairobi	1988-93	97	79	26	54	6	80	DHS	S	642	B	8446
Nairobi	1984-89	83	20	63	83	83	DHS	DHS	S	276		2253
Nairobi	1981	96								417	B	442
Nyanza province	1988-93	95	38	13	27	9	40	DHS	S	1011		8446
Nyanza province	1984-89	83										2253
Rift Valley province	1988-93	93	40	12	39	53	DHS	DHS	S	1283	B	8446
Rift Valley province	1984-89	79	17	28	6	40	DHS	DHS	S	1309		2253
Rural area	1975-78	84	27									2073
Sarafid(Nyanza)+Kitwezi(East reg.)	1986											3766

• Mwavumbo+Kasemeni+Maa
 Rural; ° skills n.s.
 ° skills n.s., pre-TBA training
 Before TBA training; *health worker +del. in health facility
 * incl. trained TBA
 After TBA training; *health worker +del. in health facility
 ° skills n.s.
 ° skills n.s.

COVERAGE OF MATERNITY CARE IN AFRICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %				Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife... or nurse (2)	Trained TBA	Skilled (1+2)						
Taita Taveta	1987	P	25	23	16	7	23	19	DHS	S	2234	B	3419
Tana district, South Tana division	1988		95	31	6	29	35	36	DHS	S	980	B	3424
Tana River	1987		95	31	6	29	35	35	DHS	S	1001		3419
Western province	1988-93		72						DHS	S	1133	B	8446
Western province	1984-89		72						DHS	S			2283
MADAGASCAR													
National	1987-92	78	45	8	49			57	DHS	S	5604	W	3871
National	1986-87	74						38°	HFA			° skills n.s.	2033
National	1984							62°	WHO			° skills n.s.	834
National	1979	33	52	7	46			62°	Govt.			° skills n.s.	2618
National, rural	1987-92	77	44	7	46			53	DHS	S	4878	B	3871
National, urban	1987-92	87	54	12	71			83	DHS	S	727	B	3871
Antananarivo	1987-92	85	56	24	68			92	DHS	S	240	B	3871
Antananarivo province	1987-92	91	59	13	62			75	DHS	S	1605	B	3871
Fianarantsoa province	1987-92	68	31	6	31			37	DHS	S	1436		3871
Mahajanga/Antsiranana province	1987-92	74	43	4	50			55	DHS	S	1210		3871
Tremadina province	1987-92	81	49	10	51			61	DHS	S	681		3871
Toliary province	1987-92	74	40	4	54			58	DHS	S	672		3871
MALAWI													
National	1987-92	90	55	4	50	0.3*	55	55	DHS	S	4512	B	4103
National	1988-92	93	57			13	57	57	CPS	S	809	W	9552
National	1990	80	55				50°	Govt.				* about; ° skills n.s.	3107
National	1989	P	37				45°	HFA				° skills n.s.	2033
National	1979-84	77	52				52°	Govt.				° skills n.s.	1828
National	1980-84						59°	AFRO				° skills n.s.	2618
National	1984						59°					° skills n.s.	2008
National	1982	P	60	33									445
National	1981	P											114
National	1979		66										788
National, rural	1987-92	89	52	3	48	0.3*	51	40°	IBRD	S	4001	B	4103
National, rural	1979-84	75	48				48°	26	DHS	S	714827	W	1828
National, urban	1987-92	96	86	15	71	0.3*	86	84°	Govt.	S	512	B	4103
National, urban	1979-84	94	84				42	46	DHS	S	97912	W	1828
Central region	1987-92	86	51	4	46	0.4*	51	67	DHS	S	1890	B	4103
Northern region	1987-92	93	67	4	63	0.1*	67	521	DHS	S	521	B	4103
Southern region	1987-92	92	56	4	51	0.2*	56	2102	DHS	S	2102	S	4103
MAURITIUS													
National	1994	99						97°	GHA	S	21354	B	11220
National	1989	76*	91					92°	Govt.	S	1741	B	3406
National	1987		77					85°	HFA			° skills n.s.	1969
National	1986		90	75*				90°	EPI			° in MCH clinics (in addition to hosp.s); ° n.s.	2033
National	1985	100						4	Govt.			° skills n.s.	1342
National	1984	76	86					81				° Government institution	3406
National	1984	P										° skills n.s.	1000
National	1980-84											° skills n.s.	2618
National	1983											° skills n.s.	834
National	1983											° skills n.s.	2008
National	1975											° skills n.s.	800

MAURITIUS cont.

COVERAGE OF MATERNITY CARE IN AFRICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %			Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA						
National, rural	1985	68	68				77°			1041	B° skills n.s.	1969
National, urban	1985	91	91				96°			700	B° skills n.s.	1969
Mauritius Island	1986-91	93	*	4*			97			1741 LB	* in addition to deliveries in health facilities	4479
Rodrigues	1985	100	70*	*	4*		70			269 CDC	* Government institution	1342
Rodrigues Island	1986-91	90	90				93			269 LB	* in addition to deliveries in health facilities	4479
RODRIGUES ISLAND	1985	78										4479
MOZAMBIQUE												
National	1989	54	27				29	Govt. HFA Govt.	S	1041	B° skills n.s.	3106
National	1987	43					30°	29		700	B° skills n.s.	2033
National	1987	27					2°			1741 LB	* in addition to deliveries in health facilities	4007
National	1987	56	27				28°			269 CDC	* Government institution	3544
National	1980-84									269 LB	* in addition to deliveries in health facilities	2618
National	1983											2008
Beira City	1992											11802
Maputo	1991											8653
Maputo	1989											3903
Maputo	1987											3106
Maputo	1987											3544
Maputo	1981											1493
REUNION												
National	1985	96					97°			13122 LB	* skills n.s.	2255
RWANDA												
National	1987-92	94	25	3	23		26	DHS HFA	S	5612	B° skills n.s.	8444
National	1989	P	85	80	20*		22°	Govt. UNICEF				2033
National	1989											2677
National	1985											3422
National	1981	P										764
National	1979											743
National, rural	1987-92	94	23	3	21		20°	UNFPA DHS	S	5341	B° skills n.s.	8444
National, urban	1987-92	97	67	8	58		25°	DHS	S	271	B° skills n.s.	8444
Butare	1987		29				24	UNICEF DHS	S			3422
Butare/Gitarama préfecture	1987-92	93	33	4	31		29°	DHS	S	1186	B° skills n.s.	8444
Byumba/Kibungo préfecture	1987-92	95	19	3	17		34	DHS	S	1019	B° skills n.s.	8444
Cyanngu/Gikongoro préfecture	1987-92	93	19	3	15		20	DHS	S	836	B° skills n.s.	8444
Kibuye/Ruhengeri/Gisenyi préfecture	1987-92	93	20	2	18		19	DHS	S	1659	B° skills n.s.	8444
Kigali préfecture	1987-92	97	38	4	35		20	DHS	S	912	B° skills n.s.	8444
Kigali selected areas	1984	96	45				38	DHS	S	445	Rural+urban areas; ° n.s.	1296
SEYCHELLES							45°	Govt.	S			
National	1984	99					99°	AFRO				2008
SOMALIA												
National	1988	<50										2618
National	1994	2°										2033
National	1992	2										1898
National	1981											813
5 cities	1983											9576
Baychaba	1983											2985
Burau	1983											2985
Hargeisa	1983											2985

* 1982 data; ° skills n.s.
 ° skills n.s.
 * ever married women 15-49; ° last birth (57% births last 3 yrs)
 Urban
 Urban
 Urban

COVERAGE OF MATERNITY CARE IN AFRICA

Region, Country, Area

Antenatal care %

Year

Deliveries in health facilities %

Attendant at delivery %

Source

Data type

Sample size

Notes

Ref No

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %	Source	Data type	Sample size	Notes	Ref No
Hargeisa+Johar+Merca	1981	44-72	35	58-85	EPI Govt. EPI	S	816		
Kismayo	1983	61	53	44	DHS HFA	S	2985		
Mogadisho	1983	63	55	44	562944 EB	S	2985		
Mogadishu	1978			60*		E	816		
TANZANIA, UNITED REP. OF								Including trained TBA attending deliveries	
National	1986-91	92	53	38	DHS HFA	S	3530	Urban	
National	1989 P	90	33	9*	DHS HFA	S	2033	Urban	
National	1986			44	DHS HFA	S	1798		
National	1980-84			60*	DHS HFA	S	2618		
National	1983	95	60	58*	DHS HFA	S	2008		
National	1979	47		74*	DHS HFA	S	1578		
National	1977	P			DHS HFA	S	319		
National, rural	1986-91	90	45	4	AFRO Govt.	S	3530		
National, rural	1986	27		31	DHS HFA	S	6146 B		
National, rural	1981	85	45	31	DHS HFA	S	478320 EB		
National, urban	1986-91	98	85	17	DHS HFA	S	2543 D		
National, urban	1986			65	DHS HFA	S	1646 B		
National, urban	1979	P		82	DHS HFA	S	83624 EB		
National, urban	1988-93	97	49	11	UNFPA	S	746		
10 districts	1986-91	85	48	36	DHS HFA	S	11673		
Arusha region	1986-91	91	49	34	DHS HFA	S	3530		
Coast region	1986-91	91	49	4*	DHS HFA	S	3530		
Dar-es-Salaam	1986-91	97	86	54	DHS HFA	S	3530		
Dar-es-Salaam	1984	98	79	54	DHS HFA	S	373 B		
Dodoma region	1986-91	92	59	6	DHS HFA	S	1495		
Ilila	1983-84	99	77	33	DHS HFA	S	3530		
Iringa region	1986-91	86	52	5	DHS HFA	S	3490		
Iringa region	1984	97	58	33	DHS HFA	S	3530		
Iringa+Morogoro+Arusha	1986-91	97	39	2	DHS HFA	S	3530		
Kagera region	1986-91	97	39	33	DHS HFA	S	3530		
Kigoma region	1986-91	95	43	2	DHS HFA	S	3530		
Kilimanjaro region	1986-91	99	76	11	DHS HFA	S	3530		
Kilimanjaro region	1979	15		58	DHS HFA	S	42		
Kwimba district, Mwanza region	1989-91	47			DHS HFA	S	9030		
Kwimba district, Mwanza region	1990	47			DHS HFA	S	8876		
Lindi region	1986-91	95	66	7	DHS HFA	S	3530		
Lindi+Rukwa+Shinyanga	1984	94	24	3	DHS HFA	S	1495		
Ludewa district	1980-83	24	35	2*	DHS HFA	S	3435		
Mara region	1986-91	92	46	31	DHS HFA	S	10837		
Mbinga region	1986	88	53	6	DHS HFA	S	3530		
Mbozi district	1980-83	13		42	DHS HFA	S	3530		
Morogoro region	1986-91	86	50	8	DHS HFA	S	3530		
Morogoro region, Kiltawilia village	1985	91	34*	38	DHS HFA	S	3530		
Mtwarra region	1986-91	100	46	5	DHS HFA	S	3530		
Mwanza region	1986-91	93	43	3	DHS HFA	S	3530		
Nyanza province, S. Nyanza district	1989	48		36	DHS HFA	S	10107		
Rukwa region	1986-91	84	46	3	DHS HFA	S	3435		
Ruvuma region	1986-91	100	82	7	DHS HFA	S	3530		
Shinyanga region	1986-91	85	48	2	DHS HFA	S	3530		
Singida region	1986-91	86	54	3	DHS HFA	S	3530		
Southern Highlands	1983	34		40	DHS HFA	S	1229		
Southern Highlands	1978	39		12*	DHS HFA	S	1229		
Tabora region	1986-91	99	67	3	DHS HFA	S	3530		

COVERAGE OF MATERNITY CARE IN AFRICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %				Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA	Skilled (1+2) %					
Tanga region	1986-91	100	54	3	31	22*	34	DHS	S	406	* MCH aide	3530
Zanzibar	1986-91	99	33	1	32	3*	33	DHS	S	238	* MCH aide	3530
UGANDA												
National	1992-95	91	35	4	34	38	38	DHS	S	6027	B	11744
National	1989	P	86	3	36	38	38	HFA	S	5004	B	2033
National	1984-89	87						DHS	S			2132
National	1986	90	32	30	30	33	33	EPI	S			1943
National, rural	1975	P	91	30	2	32	34	DHS	S	5321	B	242
National, rural	1992-95	86						EPI	S	4517	B	11744
National, rural	1986							DHS	S			1943
National, urban	1992-95	95	76	15	64	79	79	DHS	S	706	B	11744
National, urban	1984-89	95	12	68	80	80	80	DHS	S	487	B	2132
National, urban	1986							EPI	S	6975	B	1943
9 districts	1993	43		51				Govt.	S			9335
Arua district	1987		7					Govt.	S			3283
Busoga region	1988		43					DHS	S			3283
Central region	1992-95	94	57	9	51	60	60	DHS	S	1565	B	11744
Central region	1984-89	91	4	48	52	52	52	DHS	S	1267	B	2132
Eastern region	1992-95	93	39	3	39	41	41	DHS	S	1638	B	11744
Eastern region	1984-89	95	2	46	48	48	48	DHS	S	1378	B	2132
Kampala	1984-89	95	18	69	87	87	87	DHS	S	267	B	2132
Kampala	1988							Govt.	S			3283
Kitgum district	1987		25	5	39	43	43	DHS	S	524	B	3283
Luwero Triangle	1984-89	88						Govt.	S			2132
Nabarara district	1988	75	20					DHS	S			3283
North East region	1985		33					Govt.	S			3283
Northern region	1992-95	90	21	2	21	23	23	DHS	S	1164	B	11744
South region	1987		29					Govt.	S			3283
South Western region	1984-89	83		1	16	17	17	DHS	S	1499	B	3283
West Nile region	1984-89	67	1	17	18	18	18	DHS	S	274	B	2132
Western region	1992-95	88	22	3	21	24	24	DHS	S	1661	B	11744
Western region	1984-89	63	1	20	21	21	21	DHS	S	319	B	2132
ZAMBIA												
National	1987-92	92	51	5	46	51	51	DHS	S	6211	B	3874
National	1991							AFRO	E			3929
National	1983-90	P	95	47	0.8	41	3	UNICEF	E			1914
National	1990	P	95	47	0.8	41	41	Govt.	E			3109
National	1989	P	74					Govt.	S			4267
National	1989	P	40					HFA	S			2033
National	1986							AFRO	E			1421
National	1984		88					DHS	S	3326	B	2008
National	1983	P	87	26	2	24	26	DHS	S	2885	B	402
National	1987-92	P	98	79	8	71	79	DHS	S	595	B	3874
National, rural	1987-92	P	89	39	3	36	39	DHS	S	8202	D	2628
National, rural	1987-92	P	16	16	16	16	16	DHS	S	1429	B	3874
Central province	1987-89		80	7	73	80	80	DHS	S	669	B	3874
Copperbelt province	1987-92		36	2	34	36	36	DHS	S			3874
Eastern province	1987-92		93									

COVERAGE OF MATERNITY CARE IN AFRICA

ZAMBIA cont.

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %			Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA						
Lupapa province	1987-92	87	36	1	34	36	DHS	S	419 B	3874		
Lusaka	1987-92	99	76	12	64	76	DHS	S	935 B	3874		
Lusaka	1989	90	80				DHS	E	23100 B	8760		
Lusaka	1981						DHS	S	172 B	3420		
Lusaka	1976		86		47	50	DHS	S	647 B	240		
North Western province	1987-92	90	54	3	18	19	DHS	S	101 W	3874		
Northern province	1987-92	77	19	1			DHS	S	1008 B	3874		
Southern province, Kabinga	1984	P	67	10			DHS	S	337 B	1647		
Western province	1987-92	96	34	2	32	34	DHS	S	111 W	3874		
Western provinces, Luampungu	1984	P	45	22	3	30	DHS	S		1647		
ZIMBABWE							DHS	S	2328 B	9597		
National	1991-94	93	69	13	57	69	DHS	S		3110		
National	1989	>90	66				25-30	36	100039 EB	3409		
National	1989	87					DHS	S	2448 W	2516		
National	1983-88	90		7	55	62	DHS	S		9058		
National	1988		80				DHS	S		2033		
National	1986	90					HFA	S		9578		
National	1981-84	88	68				CPS	S		2008		
National	1984	89	67		67	69	AFRO	S		800		
National	1980	37					Govt.	S		2618		
National	1979						DHS	S		9597		
National, rural	1991-94	92	61	8	53	61	DHS	S	1720 B	2516		
National, rural	1983-88	96		22	68	90	DHS	S	886 W	9058		
National, rural	1988						DHS	S		9578		
National, rural	1981-84	87	59				DHS	S		798		
National, rural	1982	73	49				DHS	S		111		
National, rural	1981	P					DHS	S		9597		
National, rural	1991-94	95	91	24	67	91	DHS	S	608 B	2516		
National, urban	1983-88	91		11	59	70	DHS	S	3334 W	9578		
National, urban	1981-84	92	87				CPS	S	432 W	3499		
National, urban	1981-83	<50					DHS	S	1029 W	11240		
5 rural+2 urban areas							EPI	S	214 B	798		
Bulawayo	1991-94	95	94	36	59	94	DHS	S	115 B	9597		
Bulawayo province	1982	91	80	27	67	93	EPI	S	210 B	798		
Chitungwiza	1991-94	95	93				DHS	S	310 B	9597		
Harare	1988-90	95	95				EPI	S		11240		
Harare	1983		95	87			DHS	S		3488		
Harare	1982		95				EPI	S	206 B	798		
Manicaland province	1991-94	85	53	6	46	53	DHS	S	307 B	9597		
Manicaland province	1985		40				DHS	S		1255		
Marondera district	1986		60				DHS	S		3426		
Mashonaland Central province	1991-94	91	53	8	46	53	DHS	S	202 B	9597		
Mashonaland East province	1991-94	91	73	9	65	73	DHS	S	240 B	9597		
Mashonaland West province	1991-94	94	55	7	48	55	DHS	S	274 B	9597		
Masvingo	1989-90	60					DHS	S		11240		
Masvingo province	1991-94	96	77	12	66	78	DHS	S	240 B	9597		
Matabeland North province	1991-94	95	55	9	47	56	DHS	S	183 B	9597		
Matabeland South province	1991-94	95	65	7	58	65	DHS	S	132 B	9597		
Midlands province	1991-94	95	75	12	63	75	DHS	S	324 B	9597		

COVERAGE OF MATERNITY CARE IN AFRICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %			Postpartum care %	Source	Data type	Sample size	Notes	Ref No	
				Doctor (1)	Midwife or nurse (2)	Trained TBA							
MIDDLE AFRICA													
ANGOLA	1992	P	<25				17°	UNFPA	E				
National	1987						17°	HFA				3691	
National	1984		16				17°	AFFRO				2033	
National	1984						15°	WHO				2068	
National	1982		27				34°	AFFRO				834	
National	1991		27				70°					2068	
Luanda	1983	P	88	70			20°					3844	
Luanda												37	
CAMEROON													
National	1986-91		73	62	7	52	6°	DHS	S	3456	B	3297	
National	1983		96	42			10°	AFRO				2008	
National	1978						57°	Govt.	S	4400	W	919	
National	1975						52°	Govt.				120	
National, rural	1986-91		64	50	4	41	7°	DHS	S	2104	B	3297	
National, urban	1986-91		88	82	11	69	4°	DHS	S	1352	B	3297	
Adamoussou+Northern regions	1986-91		51	32	3	28	2°	DHS	S	1319	B	3297	
Central+Southern+Eastern regions	1986-91		81	62	3	50	11°	DHS	S	626	B	3297	
Northwestern+Southwestern regions	1986-91		81	91	4	73	15°	DHS	S	510	B	3297	
Obala and Mbalmayo zones	1993	P	96	82				DHS	S	1262	W	4463	
Western+Litoral regions	1986-91		91	84	13	71	2°	DHS	S	534	B	3297	
Yaounde+Douala	1986-91		99	95	16	77	3°	DHS	S	485	B	3297	
CENTRAL AFRICAN REP.													
National	1990-95		67	50	2	44	46	DHS	S	2836	B	11119	
National	1989	P	69	51	30	2	22	66°	HFA	S	1670	B	2033
National, rural	1990-95		90	78	3	75	78	DHS	S	1166	B	11119	
National, urban	1990-95		93	82	3	86	89	DHS	S	594	B	11119	
Bangui													
CHAD													
National	1990		30				15°	Govt.	S	227854	D	3417	
National	1981		69				24°	AFRO				2008	
Batha prefecture	1990		6				4°	Govt.	S	11506	D	3417	
Biline prefecture	1990		7				5°	Govt.	S	7303	D	3417	
Bork-Ern-Tib. prefecture	1990		18				8°	Govt.	S	4544	D	3417	
Chari Baguirmi rural prefecture	1990		11				6°	Govt.	S	28979	D	3417	
Guerla prefecture	1990		10				7°	Govt.	S	10475	D	3417	
Kanem prefecture	1990		19				5°	Govt.	S	13712	D	3417	
Lac prefecture	1990		11				5°	Govt.	S	10531	D	3417	
Logone Estien prefecture	1990		40				28°	Govt.	S	13566	D	3417	
Logone Western prefecture	1990		61				31°	Govt.	S	14640	D	3417	
Mayo Kebbi prefecture	1990		36				19°	Govt.	S	28148	D	3417	
Moyen Chari prefecture	1990		59				35°	Govt.	S	26840	D	3417	
NDjamena prefecture	1990		55				8°	Govt.	S	20645	D	3417	
Ouaddai prefecture	1990		8				7°	Govt.	S	17568	D	3417	
Salamat prefecture	1990		6				7°	Govt.	S	5742	D	3417	
Tandjile prefecture	1990		35				25°	Govt.	S	13655	D	3417	

COVERAGE OF MATERNITY CARE IN AFRICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %				Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA	Skilled (1+2)						
CONGO National, urban	1993	96					87°	GHA				° skills n.s.	11220
EQUATORIAL GUINEA National	1994	37					5°	GHA				° skills n.s.	11220
	1984	14					58°	AFRO				° skills n.s.	2008
GABON National	1994	86					80°	GHA				° skills n.s.	11220
National	1989	P	77				79°	HFA				° skills n.s.	2033
National	1988	90	79*					Govt.				° skills n.s.	3476
National	1983	73						AFRO	S			° skills n.s.	2008
National, urban	1986		92									° range 62-92; ° range 61-92	2389
SAO TOME & PRINCIPE National	1983	P	60	80-90			88°	AFRO				° skills n.s.	2008
National	1983	P										° skills n.s.	800
ZAIRE National	1994	66						GHA				556 LB	11220
National, 2 rural areas	1982-84	*	98	83	2	84	85	CPS	S			1992 LB	9575
National, 4 urban areas	1982-84	*	95	92	8	80	87	CPS	S			443 LB	9575
Kananga	1982-84	*	95	80	2	87	89	CPS	S			568 LB	9575
Kinshasa	1982-84	*	97	96	16	80	96	CPS	S			513 LB	9575
Kisangani	1982-84	*	89	65	8	75	83	CPS	S			448 LB	9575
Lubumbashi	1982-84	*	97	84	6	79	85	CPS	S			325 LB	9575
Nkara	1982-84	*	98	81	0.3	85	85	CPS	S			231 LB	9575
Vanga	1982-84	*	98	86	4	82	86	CPS	S			° last 3 years	9575

COVERAGE OF MATERNITY CARE IN AFRICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %			Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA (1+2)						
NORTHERN AFRICA												
ALGERIA												
National	1988-92	58	76	7	70		77	18	PAPCH AFRO Govt.	S	5185	B
National	1984	27					15°					skills n.s.
National	1980		57				40°					skills n.s.
National	1979		40				25°					skills n.s.
National	1977		39				68	14	PAPCH	S	2903	B
National	1975		48				87	23	PAPCH	S	2282	B
National, rural	1988-92	48	68	5	63							506 B
National, urban	1988-92	72	86	9	78							559 W
Hussein-Dey	1979		86									1334 W
Northern region, rural	1974-75		46									194 W
Northern region, urban	1974-75		73									174 D
Oran	1982		84									skills n.s.
Oran	1981	60	85									192073 D
Western region	1987	61										628 B
												2682
EGYPT												
National	1991-95	39	33	39	7		46		DHS	S	11454	B
National	1992	53*					45°		EMRO	S		* receiving health care
National	1987-92	53	27	34	7	*	41		DHS	S	8626	B
National	1986-91	52	22	29	8		37		PAPCH	S	8530	B
National	1983-88	53	23	28	7		35		DHS	S	8624	B
National	1985-86	19	19	28	7		32°		EPI	S	12000	B
National	1977 P	30	10	11	82		93	20	Govt.	S	12551	W
National	1976		6									708
National, rural	1991-95	27	19	26	7		33		DHS	S	7073	B
National, rural	1987-92	43	15	22	6		28		DHS	S	5389	B
National, rural	1986-91	44	12	20	5		25		PAPCH	S		* trained TBA, % n.s.
National, rural	1983-88	42	11	15	4		19		DHS	S		trained TBA, % n.s.
National, rural	1985-86		8				24°		EPI	S	3000	B
National, rural	1977 P	19	2	2	2		89	91	Govt.	S	7764	W
National, urban	1991-95	58	55	60	8		68		DHS	S	4381	B
National, urban	1987-92	69	48	53	10		63		DHS	S	3237	B
National, urban	1986-91	70	42	48	13		60		PAPCH	S		* trained TBA, % n.s.
National, urban	1983-88	69	41	46	11		57		DHS	S	3522	B
National, urban	1985-86		32				41°		EPI	S	9000	B
National, urban	1977 P	48	22	26	71		97	32	Govt.	S	4787	W
Alexandria	1980		14									skills n.s.
Alexandria	1979 P	42							EMRO	S	995	B
Cairo	1988	73	53					41			100 W	Totoula Saida Model Center
Cairo	1981		22									skills n.s.
Cairo, metropolitan	1985-86	40										skills n.s.
Lower Egypt	1991-95	42	33	42	9		51		EPI	S	3000	B
Lower Egypt	1987-92	49	24	32	8	*	40		DHS	S	4377	B
Lower Egypt	1983-88	46	18	24	7		31		DHS	S	3408	B
Lower Egypt	1985-86	23					37°		EPI	S	4500	B
Lower Egypt, rural	1991-95	35	24	34	10		44		DHS	S	3321	B
Lower Egypt, rural	1987-92	43	17	26	6	*	32		DHS	S	2588	B
Lower Egypt, rural	1986-91		17				15		PAPCH	S	5	trained TBA, % n.s.

COVERAGE OF MATERNITY CARE IN AFRICA

EGYPT cont.

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %				Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA	Skilled (1+2)						
				5	5	29°	23						
Lower Egypt, rural	1983-88	40	13	18	5	29°	23	DHS	S	S	2643	B	3247
Lower Egypt, rural	1985-86	65	60	68	7	75	40	EPI	S	S	1500	B	1688
Lower Egypt, rural	1991-95	68	44	51	12	*	25	DHS	S	S	1057	B	11738
Lower Egypt, urban	1987-92	62	32	41	15	63	22	DHS	S	S	820	B	4983
Lower Egypt, urban	1986-91	64	34	42	12	56	22	PAPCH	S		868	B	4288
Lower Egypt, urban	1983-88	64	32	42	12	54	22	DHS	S		3000	B	3247
Lower Egypt, urban	1985-86	68	32	30	17	42°	26	EPI	S		4310	B	1688
Manoufaya Governorate	1987-93	68	23	30	17	48	23	Govt.	S		1000	B	12129
Qalyoubia governate, Tauch district	1992-93	21	21	26	6	32	23	DHS	S		4973	B	11577
Upper Egypt	1981-95	29	21	23	6	*	30	DHS	S		3661	B	11738
Upper Egypt	1987-92	47	18	23	5	*	24	DHS	S		3473	B	4083
Upper Egypt	1983-88	50	15	19	5	19°	19°	EPI	S		4500	B	3247
Upper Egypt	1985-86	9	<20	14	18	5	23	DHS	S		1000	B	1688
Upper Egypt, rural	1981-95	21	14	18	5	*	23	DHS	S		3705	B	12129
Upper Egypt, rural	1987-92	43	12	18	5	*	23	DHS	S		2801	B	11577
Upper Egypt, rural	1986-91	40	9	14	6	19	11	PAPCH	S		2459	B	4288
Upper Egypt, rural	1983-88	44	9	12	3	15	15	DHS	S		1500	B	3247
Upper Egypt, rural	1985-86	44	8	11	11	17°	17°	EPI	S		1269	B	1688
Upper Egypt, urban	1981-95	51	43	49	11	60	60	DHS	S		860	B	11738
Upper Egypt, urban	1987-92	62	36	41	11	*	52	DHS	S		3000	B	4083
Upper Egypt, urban	1986-91	66	29	35	14	49	19	PAPCH	S		1013	B	4288
Upper Egypt, urban	1983-88	65	32	36	11	47	47	DHS	S		1557	B	3247
Upper Egypt, urban	1985-86	65	14	8	*	26°	26°	EPI	S		1640	B	1688
Upper Egypt, urban	1987-92	74	56	60	8	*	68	DHS	S		11825	B	4083
Urban Governorates	1986-91	79	59	61	11	72	24	PAPCH	S		3398	B	4288
Urban Governorates	1983-88	75	49	54	11	65	65	DHS	S		1640	B	3247
LIBYAN A.J.	1991-96	81	94	—	—	—	—	20°	PAPCH	S		• 1 in 5; • skills n.s. • 1976 data; • skills n.s.	11825
National	1992	100	76	68	70	76°	76°	DHS	S		5138	B	4283
National	1984	76	P	70	64	—	—	Govt.	E		800	B	1888
National	1983	P	—	—	—	—	—	CPS	S		6053	B	800
National	1982	P	—	—	—	—	—	Govt.	E		5487	W	149
National	1977	—	—	—	—	—	—	UNIFPA	S		136762	B	415
National	1991-96	88	88	—	—	—	—	Govt.	S		3625	W	11825
National, urban	1991-96	96	96	—	—	—	—	Govt.	S		1490	B	11825
MOROCCO	1990-94	45	37	11	29	40	40	DHS	S		2235	B	11358
National	1987-92	33	28	6	25	31	31	DHS	S		5138	B	3618
National	1990	34	35	—	—	52	52	Govt.	E		3336	B	3336
National	1982-87	25	6	20	26	26	26	DHS	S		6053	B	2777
National	1983-84	31*	21	5	19	24	24	CPS	S		5487	W	9577
National	1978-83	34	—	—	—	29°	29°	Govt.	E		1786	B	759
National	1980	177	—	—	—	20	20	UNIFPA	S		1210	B	1210
National	1979-80	17	3	17	17	32	32	Govt.	S		3398	B	3398
National	1980	18	—	—	—	17	17	DHS	S		1902	B	1902
National, rural	1976	28	19	4	16	19	19	DHS	S		3375	B	3618
National, rural	1980-94	18	13	2	12	14	14	DHS	S		11825	B	3336
National, rural	1987-92	18	13	2	11°	42	42	Govt.	E		11825	B	3336

Public sector; ° skills n.s.

MOROCCO cont.

COVERAGE OF MATERNITY CARE IN AFRICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %				Postpartum care %	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA	Skilled (1+2)					
National, rural	1982-87	13	2	8	8	10	30°	DHS	S	3992 B	* n=481; ° read from graph	2717
National, rural	1983-84	14*	1	7	8	20	356 W	CPS Govt.	S	3356 W	* n=481; ° read from graph	9577
National, rural	1980	6	7	25	55	80	745 B	DHS	S	3336		11358
National, urban	1980-94	79	74	55	50	64	1763 B	DHS	S	3618		3618
National, urban	1987-92	61	59	14	50	56°	2061 B	DHS Govt.	E	3336	Public sector; ° skills n.s.	2717
National, urban	1990	53	53	13	43	56	2129 W	CPS	S	2717	* n=1198; ° read from graph	9577
National, urban	1982-87	48	43	12	38	50	53	DHS Govt.	S	3336		3336
National, urban	1983-84	56*	43	12	38	50	53	DHS Govt.	S	3618		3618
National, urban	1980	39	31	8	25	33	1302 B	DHS	S	3618		3618
Central region	1987-92	33	31	9	22	31	1523 B	DHS	S	2717		2717
Central region	1982-87	31	23	4	21	25	732 B	DHS	S	3618		3618
Central-Northern region	1987-92	50	35	6	32	43	353 B	DHS	S	3618		3618
Central-Southern region	1980-94	52	49	19	34	52	530 B	DHS	S	11358		11358
Centre region	1990-94	35	29	7	24	32	394 B	DHS	S	11358		11358
Centre-Nord region	1990-94	61	50	12	41	53	145 B	DHS	S	11358		11358
Centre-Sud region	1987-92	42	43	5	46	51	369 B	DHS	S	3618		3618
Eastern region	1982-87	22	4	25	29	29	410 B	DHS	S	2717		2717
Eastern region	1990-94	45	41	16	28	43	424 B	DHS	S	11358		11358
Nord-Ouest region	1982-87	19	6	13	19	19	942 B	DHS	S	2717		2717
North-central region	1982-87	26	6	25	31	31	1234 B	DHS	S	2717		2717
North-Western region	1987-92	36	32	8	27	35	1016 B	DHS	S	3618		3618
Northwestern region	1990-94	63	52	3	50	53	134 B	DHS	S	11358		11358
Oriental region	1976	4	23	27	41	41	1902	DHS	S	2717		2717
Rabat-Sale	1982-87	33	5	18	23	23	400 B	DHS	S	3618		3618
South-central region	1987-92	29	21	5	17	22	724 B	DHS	S	2717		2717
Southern region	1982-87	21	5	6	21	26	821 B	DHS	S	11358		11358
Southern region	1990-94	39	24	2	18	68	346 B	DHS	S	3618		3618
Sud region	1987-92	16	19	2	22	24	638 B	DHS	S	11358		11358
Tensift	1990-94	35	22	4	15	19	262 B	DHS	S	2717		2717
Tensift region	1982-87	19	4	15	15	19	723 B	DHS	S			
SUDAN												
National	1988-93	54	18	8	78*	86	4781 B	PAPCH Govt.	S	10194	* trained nurse/midwife	4512
National	1990	35	9	60*	•	69*	6644 B	* incl.health visitor/medical assistant		2584		2033
National	1985-90	70	9	60*	•	60°	6644 B	° skills n.s.		1898		1898
National	1987	40	5	76*	•	20°	9632 LB	* incl.health visitor/medical assistant		813		10194
National	1984	20	4	56*	•	23°	3143 B	° skills n.s.		2584		2584
National	1981	45	5	76*	•	59*	4367 B	* incl.health visitor/medical assistant		655		655
National, rural	1988-93	62	4	56*	•	33°	PAPCH DHS	° skills n.s.		10194		10194
National, rural	1985-90	62	4	56*	•	33°	PAPCH DHS	* trained nurse/midwife		2584		2584
National, rural	1976	P	15	81*	•	96	PAPCH DHS	* incl.health visitor/medical assistant		1868		1868
National, rural	1988-93	69	15	81*	•	86*	PAPCH DHS	* incl.health visitor/medical assistant		1259		1259
National, rural	1985-90	87	18	70*	•	76*	PAPCH DHS	* incl.health visitor/medical assistant		799		799
National, rural	1985-90	75	7	39*	•	40*	DHS	* incl.health visitor/medical assistant		130		130
Central region	1985-90	40	1	39*	•	55*	DHS	* incl.health visitor/medical assistant		1200 B		201
Darfur region	1985-90	63	8	47*	•	88*	DHS	* incl.health visitor/medical assistant		892		892
Eastern region	1992	P	71	12	26	62*	DHS	* incl.health visitor/medical assistant		2584		2584
Gazira-Kordofan regions	1985-90	91	25	25	3	62*	DHS	* incl.health visitor/medical assistant		3665		3665
Khartoum	1976	54	25	3	62*	•	DHS	* incl.health visitor/medical assistant		201		201
Khartoum province	1983	73	73	3	62*	•	DHS	* incl.health visitor/medical assistant		892		892
Khartoum, urban	1985-90					65*	DHS	* incl.health visitor/medical assistant		2584		2584
Kordofan region	1985-90					65*	DHS	* incl.health visitor/medical assistant				

COVERAGE OF MATERNITY CARE IN AFRICA

SUDAN cont.

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %			Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA						
Northern region	1985-90	92	29	6	92*	*	98*	DHS	S	409	B * incl.health visitor/medical assistant	2584
Omdurman district	1983		9				91	PAPCH	S	6275	W Training & intervention area	1660
Rural community	1985-88		10				9	GHA	S	207786	B * skills n.s.	3882
Wad Medani	1988						76°	DHS	S			2406
TUNISIA	1995	71	81				69	DHS	S	4435	B deliveries in health facilities urban 90% and rural 59%	11424
National	1993	72	77				69	Govt.	S	224169	B ° skills n.s.	11626
National	1992	58	16				74°	Govt.	S			11220
National	1990	P	58				68	EMRIO	S			3513
National	1985-88	58	67	16	53		60°	Govt.	S			2074
National	1988	67	74				56°	Govt.	S			9236
National	1988	67	68	5	63		50°	Govt.	S			3190
National	1987	60	60				40°	UNFPA	S			800
National	1984	54	56				44	Govt.	S	206865	D ° skills n.s.	748
National	1984	54	54				44	Govt.	S			1888
National	1983	P					40	PAPCH	S	36367	B ° skills n.s.	9236
National	1981	P					40	Govt.	S			3190
National	1980		53	4	40		50°	DHS	S	2192	B ° skills n.s.	1497
National	1978		43	7	43		50	Govt.	S			414
National, rural	1995	63	66				50°	DHS	S			11424
National, rural	1993		7				50°	PAPCH	S			11626
National, rural	1988	43	22				50°	Govt.	S	171419	B ° skills n.s.	3190
National, rural	1983-88						50°	DHS	S			3190
National, rural	1980						50°	Govt.	S			2074
National, rural	1995	78	66				50°	CCPS	S	916	W ° skills n.s.	1497
National, rural	1993		7				50°	Govt.	S			3521
National, urban	1988	43	26	7	43		50°	DHS	S	828	B ° skills n.s.	414
National, urban	1983-88						50°	Govt.	S			2074
National, urban	1980						50°	DHS	S	13000	B ° skills n.s.	309
National, urban	1982-84	40	50				50°	Govt.	S	9000	B ° skills n.s.	309
Ain Draham	1982-84						50°	CCPS	S	324	B ° skills n.s.	47
Bizerte governate	1978	54	54	18	66		84	Govt.	S	1200	B ° skills n.s.	309
Eastern central region	1983-88	60	11				84	DHS	S	1190	W ° skills n.s.	8823
Kairouan	1976	2	1				84	Govt.	S			3475
Kasserine	1976	0	5				84°	Govt.	S			414
Ksar-Heliah	1982						84°	Govt.	S			3475
Medenine	1976	5	9				84°	Govt.	S			414
Monastir	1988-89	86	96				90°	Govt.	S			3475
Monastir	1988-89						90°	Govt.	S			414
Monastir governate	1978						90°	DHS	S	691	B ° skills n.s.	3475
Nabeul governate	1978		51				80	DHS	S	705	B ° skills n.s.	414
Nezha	1992	P	70				59	Govt.	S	23000	B ° skills n.s.	3475
North-Eastern region	1983-88	73	18	62	53		80	DHS	S			2074
North-Western region	1983-88	53	6				59	Govt.	S			2074
Sfax	1978						59	Govt.	S			2438
Sidi-Bouzid governate	1978	12	39				51	Govt.	S	722	B ° skills n.s.	414
Sousse	1978						51	DHS	S	684	B ° skills n.s.	309
Sousse governate	1983-88	42	64	7	44		48	DHS	S			2074
Southern region	1983-88	83		46	48							

TUNISIA, cont

COVERAGE OF MATERNITY CARE IN AFRICA

Region, County, Area	Year	Antenatal care %	Delivers in health facilities %	Attendant at delivery %			Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA						
Tunis	1976	15	53									309
Tunis governate	1978	39	79	5								414
Western central region	1983-88				42							2074
						47			Govt. DHS	S	37000 B	
										S	805 B	

COVERAGE OF MATERNITY CARE IN AFRICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %			Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA						
SOUTHERN AFRICA												
BOTSWANA	1988	74	79°	70	77	71	HFA	S	3177	B	° skills n.s.	2033
National	1984-88	92	66	8	59	67	DHS		2075			
National	1985 P	82	66	61	61	61	Govt.		1090			
National	1983-84	90	66	61	60°	60°	Govt.		1305			
National	1980-84	1984	90	60-70	52°	52°	IBRD AFRO UNECA		2618			
National	1984	90	60-70	61	50°	50°	DHS	S	1138		° skills n.s.	2008
National	1984 P	82	60-70	61	61	61	EPI	S	920		° skills n.s.	440
National	1976	1984-88	91	5	67	72	DHS	S	2075		° skills n.s.	2075
National, rural	1983-84	89	61	7	54	61	Govt.	S	1305		° skills n.s.	805
National, rural	1983	96	79	14	80	94	DHS	S	2075		° urban 80%, rural 59%; ° skills n.s.	1305
National, rural	1984-88	97	87	9	79	88	Govt.	S	1305		Government MCH programme	722
National, urban	1983-84	96	87	31	31	63	IBRD	S	1305		° skills n.s.	
National, urban	1981	P	86	31	31	63	DHS	S	1305		° skills n.s.	
Thamaga							DHS	S	1305		° skills n.s.	
LESOTHO	1992	91	50	*	11	50	Govt.	S	9106		° deliveries in health facilities	9106
National	1991	85	56	**	**	5	Govt.	E	9216		° urban 80%, rural 59%; ° skills n.s.	4336
National	1991	14	87				Govt.		3103			
National	1990 P	85	60				HFA		2033			
National	1989 P	50	50				Govt.		800			
National	1983 P	40	40				AFRO		2008			
National	1983	93	93						779			
NAMIBIA	1987-92	88	67	14	54	68	DHS	S	4082			
National	1987-92	86	58	6	53	59	DHS	S	4082			
National, rural	1987-92	90	85	30	56	86	DHS	S	4082			
National, urban	1987-92	77	64	20	47	67	DHS	S	4082			
Central region	1987-92	79	52	3	49	52	DHS	S	4082			
Northeastern region	1987-92	95	66	7	61	67	DHS	S	4082			
Northwestern region	1987-92	86	81	32	51	83	DHS	S	4082			
Southwestern region	1987-92											
SOUTH AFRICA	1994-95 *	89	79	41°	41	82	CPS	S	9141		* year of study; ° incl. 25% doctor+nurse; ' last birth	10552
National	1980-85	98	90						3439			
National, urban	1980-85	98	93						3439			
National, urban	1980-85	93	93						3439			
National, urban	1993-94	98	98						11135			
Cape Town	1981	73	87						664			
Cape Town suburbs	1987	87	40						3494			
Gelukspan area, Bophuthatswana	1983 P	60	60						7233			
Gelukspan area, Bophuthatswana	1985	57	57						3439			
Gelukspan area, Bophuthatswana	1988-89	57	57						8555			
KwaZulu, Ingwavuma district	1987	93	54						2330			
KwaZulu, Mseleni area	1984	40	40						3507			

SOUTH AFRICA cont.

COVERAGE OF MATERNITY CARE IN AFRICA

Region, Country, Area	Year	Antenatal care %	Delivers in health facilities %	Attendant at delivery %			Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA					
KwaZulu, rural	1983	8									406
KwaZulu-Natal	1982-93	95	85	5*	19*	63	S	S	364 D 445	* skills n.s.	10725
KwaZulu-Natal, Zululand	1994	96	71	39	5*	40	S	S	237	Black women; * in addition to dal in health facilities	11299
Orange Free State, rural	1995 P	39	39	9	31	95	S	S	237 W	Woman delivering during last 12 months	11183
Orange Free State, rural	1993 P	87	76	3*	16*	88	S	S	168	Black women; * in addition to deliveries in health facilities	9700
Orange Free State, urban	1995 P	76	76	12	66	75	S	S	168 W	Women delivering during last 12 months	11183
Orange Free State, urban	1993 P	94	75				S	S	2940 W		9700
Transvaal, Lebowa	1992										11454
SWAZILAND											
National	1994	85	40				Govt.	S	39229 B		11399
National	1992 P	70	56				Govt.	S	37765 B		4506
National	1992	34					Govt.	S	3039 W		11399
National	1983-88						CPS	S			4475
National	1988	56	6	50			Govt.	S			3104
National	1988	94	55	6	49		AFRO	S			2008
National	1988										2618
National	1987										1980
National	1987	50									834
National	1984										745
National	1977-78	80	25								4475
National, rural	1983-88										
National, rural	1983-88	51	4	46			WHO	S	2577 W		
National, urban	1983-88	80	13	68			UNFFA	CPS	522 W		4475
Hhohho region	1983-88	63	9	54			CPS	S	895 W		4475
Lubombo	1983-88	54	6	48			CPS	S	669 W		4475
Manzini	1983-88	61	5	56			CPS	S	733 W		4475
Shiselweni	1983-88	43	3	40			CPS	S	812 W		4475
Two regions	1986			55			CPS	S	62	* skills n.s.	3766

COVERAGE OF MATERNITY CARE IN AFRICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %			Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA						
WESTERN AFRICA												
BENIN												
National	1991	60*	39				38°	17	Govt.	S	244429 E	* range 26-100%; ° range 19-56%, skills n.s.
National	1990	59	64				45°	13	HFA WHO Govt.	S	236972 E	* 1986 data; ° skills n.s.
National	1987	27	19				34°					° skills n.s.
National	1982	P	20									
National	1980	P	25	10-20			34°		AFFRO			
National, rural	1983	P										
National, rural	1982											
National, urban	1980	P	75									
BURKINA FASO												
National	1988-93	59	43	1	40		41	DHS HFA Govt.	S	6302 B	° skills n.s.	
National	1989	P	10				30°					
National	1988		32				21					
National	1986											
National	1986											
National	1984											
National	1980											
National	1979											
National, rural	1988-93	53	35	1	32		33	DHS	S	5402 B		
National, urban	1988-93	95	91	4	88		92	DHS	S	900 B		
3 Health regions*	1986-87	28					30°					
Bobo-Dioulasso	1990	P	92	75	60-70		29	E			19704 *	projected pregnancies; Bobo-Dioulasso+Koudougou+Zabre
Bobo-Dioulasso	1989											
Bobo-Dioulasso	1981-82	72										
Central/Southem regions	1988-93	57	30	1	31		32	DHS	S	8144 LB		
Eastern region	1988-93	43	30	0.2	26		26	DHS	S	1703 B		
Northern region	1988-93	49	35	1	30		31	DHS	S	1377 B		
Ouagadougou	1988-93	96	94	5	90		95	DHS	S	1137 B		
Western region	1988-93	69	57	2	54		57	DHS	S	499 B		
CAPE VERDE												
National	1989	P	99									
National	1983		96									
Sal	1979		85	27								
São Vicente	1979		92	51	2*							
COTE D'IVOIRE												
National	1992-94	83	45	2	43		45	DHS HFA	S	3989 B	° skills n.s.	
National	1989	P	66*				50°					
National	1988											
National	1987											
National	1984	P	62	42			20°	IBFD				
National, rural	1992-94		77	29	0.6		13°	<10	DHS	S	2639 B	
National, rural, savannah area	1992-94		79	30	0.5		29	30	DHS	S	1802 B	
National, rural, forest area	1992-94		71	27	1		31	31	DHS	S	837 B	
National, urban	1992-94		96	76	5		26	27	DHS	S	1350 B	
National, urban, forest area	1992-94		96	68	2		71	76	DHS	S	419 B	

* Range 7-52; ° skills n.s.

° projected pregnancies; Bobo-Dioulasso+Koudougou+Zabre

° in addition to deliveries in health facilities

* in addition to deliveries in health facilities

° skills n.s.

COVERAGE OF MATERNITY CARE IN AFRICA

Region, Country, Area	Year	Antenatal care %	Delivers in health facilities %	Attendant at delivery %				Postpartum care %	Source	Data type	Sample size	Notes	Ref No	
				Doctor (1)	Midwife or nurse (2)	Trained TBA	Skilled (1+2)							
National, urban, savannah area	1992-94	96	74	3	72	75	75	DHS	S	313	B		11120	
Abidjan	1992-94	97	81	8	74	82	82	DHS	S	618	B		11120	
Abidjan	P	40	86					DHS	S				2064	
Abidjan	1984-85							Govt.	S				4328	
Interior	1988	P	36										2064	
Rural areas	1980-81		42										1900	
GAMBIA														
National	1985-90	91	8	36	44	41°	41°	CPS	S	215	D	° skills n.s.	4327	
National	1984	90	25	5	30	35	35	AFRO	S			° skills n.s.	2068	
National	1982	90						Govt.	S				254	
National	1978	90						UNFPA	S				732	
National, rural	1985-90	89	14	22	61	83	83	CPS	S				4327	
National, rural	1985-90	98	22	6	26	32	32	CPS	S				1971	
National, urban	1985-90	92	6	23	26	26	26	CPS	S				4327	
Central region	1985-90	90	3					CPS	S				4327	
Eastern region	1986	25			65	25	25						3483	
Eastern region, Upper River division	1988-91	8	9	9	78	9	9						4259	
Farafenni area, rural	1984-87	40°	7	7	65	7	7						2333	
Farafenni district	1984-87	22°	4	4	4	4	4						2333	
Farafenni district	1982-83	25°	5	5	0	5	5						2333	
Farafenni district	1991	99	13	1	12	52	13						4518	
Upper Badibbu	1989-91	100	21	2	17	77	19						4518	
West Kiang	1985-90	91	13	47	47	60	73	CPS	S	802	D		4327	
GHANA														
National	1983	P	70-80	40-50	7	37	15	44	Govt.	S	2168	B	4053	
National	1990-93	86	42	4	41	16	45	47	DHS	S	9621	W	9711	
National	1987-92	86	44					UNICEF	E				10221	
National	1983-90							HFA	S				1914	
National	1989	P	90		7	33	40	DHS	S				2033	
National	1984	88	48	47	26	47	47	AFRO	S				2069	
National, rural	1990-93	81	28	3	27	19	30	DHS	S				2068	
National, rural	1987-92	83	33	2	31	19	33	Govt.	S				9711	
National, rural	1983-88	78	5	24	28	28	28	DHS	S				10021	
National, urban	1990-93	97	79	17	65	5	82	DHS	S				2069	
National, urban	1987-92	95	77	9	69	6	78	Govt.	S				9711	
National, urban	1983-88	94	12	58	70	70	70	DHS	S				2069	
Accra, metropolitan	1983-88	91	16	56	72	72	72	DHS	S				2069	
Ashanti region	1990-93	91	53	7	48	12	55	DHS	S	391	B		9711	
Ashanti region	1983-88	91	10	41	51	51	51	DHS	S	704	B		2069	
Brong Ahafo region	1976	85						DHS	S	18900	P	° skills n.s.	153	
Brong Ahafo region	1983-88	87						Govt.	S	530	B		2069	
Central region	1980-93	90	54	7	49	12	56	DHS	S	209	B		9711	
Central region	1983-88	85	35	1	37	29	38	DHS	S	224	B		9711	
Eastern region	1980-93	89	55	7	40	12	56	DHS	S	464	B		2069	
Eastern region	1983-88	88	5	34	14	55	55	DHS	S	237	B		9711	
Ejisu district	1985-89	83	83	5	34	39	39	DHS	S	591	B		2069	
Greater Accra	1980-93	96	80	25	56	5	81	DHS	S	1200	W		10935	
												196	B	9711

COVERAGE OF MATERNITY CARE IN AFRICA

GHANA cont.

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %				Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA	Skilled (1+2)						
				1976	89	15	2	14	13	16	22°	19200 P	° skills n.s.
Jasikan	1990-93	66	15	2	17	11	19	13°	19	254	B	9711	153
Northern region	1990-93	88	17							142	B	4983	9711
Upper East region	1991												3987
Upper East region, Bawku district	1988-89												9711
Upper West region	1990-93	77	22					22	17	22		DHS	77 B
Upper West+East+North regions	1983-88	54	1					12	13	13		DHS	542 B
Volta region	1990-93	86	33	5	30	14	35	35	33	33		DHS	234 B
Western region	1983-88	78	36	4	29	29	33	33	33	499 B		DHS	204 B
Western region	1990-93	87	36	7	32	28	40	40	40	40		DHS	360 B
GUINEA													
National	1987-92	58	25	6	24	5	31			5275	B		9555
National	1987 P		20										1975
National	1986	36	14	4	14	6	18	25°	18	3941	B	HFA	2033
National, rural	1987-92	48	58	13	55	3	68			DHS		DHS	9555
National, urban	1987-92	87	58	13	55	3	68			DHS		DHS	9555
Basse Guinée	1987-92	67	28	5	25	4	30			DHS		DHS	9555
Conakry	1987-92	93	75	18	68	2	86			DHS		DHS	9555
Conakry	1989											E	3377
Conakry	1988	90											2757
Guinée Forestière	1987-92	96	86	23	3	26	16			DHS		DHS	2745
Haute Guinée	1987-92	41	16	6	15	2	21			DHS		DHS	9555
Kankan	1989												9555
Labe	1989												2415
Moyenne Guinée	1987-92	40	13	6	11	1	17			DHS		DHS	9555
GUINEA-BISSAU													
National	1993	50						50°	5	31		GHA	° skills n.s.
National	1989 P	29										HFA	1970 B
Bijago Islands, Bubaque	1990 °		30		*	31*	5					E	1970 births to 639 women; ° study year; ° both
LIBERIA													
National	1989 P	50	63	7	52					HFA		DHS	2033
National	1981-86	88	87							AIRO		DHS	1633
National	1984	88								WHO		DHS	2008
National	1983	88										DHS	834
National	1975							14°				DHS	211
National, excl. regions: Since+*	1981-86	80	5	48	53			87°				DHS	1633
National, rural	1981-86	77	4	41	45			89°				DHS	1633
National, urban	1981-86	91	10	67	77							DHS	1633
Grand Gedeh region	1981-86	72	2	35	37							DHS	1633
Montserrado region	1981-86	91	13	66	79							DHS	1633
Sinoe region	1981-86	85	4	40	44							DHS	1633
MALI													
National	1992-96	25	1	23	24					DHS		GHA	11421
National	1993	23	1	45	46					HFA		DHS	11220
National	1987	31*	0.3	32*	*					DHS		DHS	2033
National	1982-87												1978

Preliminary; * ass.nurse/matrone
° skills n.s.
° medical staff incl. matrone/assistant nurse

COVERAGE OF MATERNITY CARE IN AFRICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %				Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA	Skilled (1+2)					
National	1984	P	13	0.3	8	19*	14*	Govt.	DHS	6019 B	* skills n.s. * Preliminary; * as.nurse/matron	1744
National	1981			0.2	17*	*	8	DHS	DHS	2574 B	* medical staff incl. matrone/assistant nurse	307
National, rural	1982-87	19*		60	2	68	10*	DHS	DHS	1541 B	Preliminary; * as.nurse/matron	11421
National, rural	1992-96	60		0.5	76*	*	70	DHS	DHS	816 B	* medical staff incl. matrone/assistant nurse	1978
National, urban	1982-87	70*		0.9	86*	*	77*	DHS	DHS	257 B	* medical staff incl. matrone/assistant nurse	11421
National, urban	1982-87	83*					87*	DHS	DHS	12009 LB	* medical staff incl. matrone/assistant nurse	1978
Bamako	1982-83	74		0	28*	*	28*	DHS	DHS	1046 B	* medical staff incl. matrone/assistant nurse	8575
Kayes+Koulikoro	1982-87	29*		0.4	19*	*	19*	DHS	DHS	715 B	* medical staff incl. matrone/assistant nurse	1978
Mopti+Gao+Timbuctou	1982-87	21*		0.3	31*	*	21*	DHS	DHS	1372 B	* medical staff incl. matrone/assistant nurse	1978
Sikasso+Segou	1982-87	29*										
MAURITANIA												
National	1986-91	49	40	6	34	40	13	PAPCH	S	4906 B	* skills n.s.	9742
National	1989	P	26			20*	20*	HFA				2033
National	1983	58				23*	23*	AFRO				2008
National, nomads	1986-91	14	10	0.5	10	5	5	PAPCH	S	389 B	* skills n.s.	9742
National, rural	1986-91	29	17	4	15	19	9	PAPCH	S	2458 B	* skills n.s.	9742
National, urban	1986-91	79	73	9	62	71	21	PAPCH	S	2059 B	* skills n.s.	9742
Hods region	1986-91	25	14	3	14	17	6	PAPCH	S	1566 B	* skills n.s.	9742
Metropoles	1986-91	85	80	11	70	81	21	PAPCH	S	1301 B	* skills n.s.	9742
Northern region	1986-91	34	23	7	23	30	11	PAPCH	S	430 B	* skills n.s.	9742
River region	1986-91	48	33	4	29	32	15	PAPCH	S	1809 B	* skills n.s.	9742
NIGER												
National	1987-92	30	16	0.3	15	18	15	DHS	S	7094 W	* skills n.s.	3619
National	1983	47			27	27	20	AFRO		279380 E	* skills n.s.	2008
National	1982	27						Govt.				586
National	1980							DHS	S	5998 W	* skills n.s.	697
National	1980							Govt.		983 B	* skills n.s.	1227
National, rural	1987-92	20	5	0.3	5	20	5	DHS	S	1096 W	* skills n.s.	3619
National, Rural	1980-85	22						Govt.		7980 E	* skills n.s.	12073
National, urban	1987-92	86	73	1	69	8	70	DHS	S	8730 E	* skills n.s.	3619
Agadez	1982	54	31					Govt.		1005 W	* skills n.s.	586
Diffa	1982	21	12					DHS	S	37280 E	* skills n.s.	586
Dosso	1982	31	11	0.2	12	18	12	Govt.		1352 E	* skills n.s.	3619
Maradi	1982	24	14	0.1	12	30	12	DHS	S	51850 E	* skills n.s.	586
Niamey	1982	22	14	0.1	12	30	12	Govt.		361 W	* skills n.s.	3619
Niamey	1988	93	84					DHS	S	137 P	* skills n.s.	10867
Tahoua	1982	46	32					Govt.		65880 E	* skills n.s.	2088
Tahoua/Agadez	1982	19	13					Govt.		52750 E	* skills n.s.	586
Tillaberi	1987-91	30	17	1	16	19	17	DHS	S	1555 W	* skills n.s.	3619
Zinder	1982	39	6	0.5	6	12	7	DHS	S	1266 E	* skills n.s.	3619
Zinder department, ex. Zinder	1987	92	77	1	77	7	78	Govt.		54810 E	Rural	586
Zinder/Diffa	1987-91	16	11	0	10	14	10	DHS	S	1554		2088
NIGERIA												
National	1985-90	60	31	10	21	6*	31	DHS	S	8113 B	* tr. TBA+village health worker	3619

COVERAGE OF MATERNITY CARE IN AFRICA

NIGERIA cont.

Region, Country, Area

Attendant at delivery %

Ref No

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %			Postpartum care %	Source	Data type	Sample size	Notes
				Doctor (1)	Midwife or nurse (2)	Trained TBA					
National	1987	78	24	7	16	6*	23	HFA	DHS	6399	* tr. TBA+village health worker
National, rural	1985-90	53	45	21	38	3*	59	DHS	S	1714	* tr. TBA+village health worker
National, urban	1985-90	87	58				62*	DHS	S	130	Rural community; delivery services introduced 1987
Anambra state, Obukpa town	1989	97	62				41*	DHS	S	141	Rural community; delivery services introduced in 1987; ° n.s.
Anambra state, Obukpa town	1987	92	41				57*	DHS	S	3058	° skills n.s.
Bendel state	1984	P	83	51				DHS	S	896	D
Ile-Ife	1990	P	41	20				DHS	S	878	W
Kaduna state, Giwa district	1989	P	59	20*				DHS	S	4508	B
Kaduna state, Zaria, rural	1989	P	8	3				DHS	S	2623	LB
Kainji Lake	1990	P	51	40				DHS	S	2352	W
Kano metropolis	1980	P	80	78				DHS	S	1924	B
Lagos urban	1985-90	38	10	7	4	3*	11	DHS	S	2242	B
North-Eastern region	1985-90	46	10	5	5	2*	10	DHS	S	3249	B
North-Western region	1981-86	80		3	56		59	DHS	S	254	B
Ondo State	1981-86	17		0.4	9		9	DHS	S	1635	B
Ondo State, Riverine	1981-86	82		3	58		59	DHS	S	1360	B
Ondo State, rural	1981-86	89		4	65		69	DHS	S	2422	B
Ondo State, urban	1978	25	11					DHS	S	1525	B
Oyo State	1977	24						DHS	S	498	W
Plateau State	1985-90	72	46	11	35	10*	46	DHS	S	Umuabi, Obinagu, Amakwue, Akpakkume rural areas; ° n.s.	
South-Eastern region	1985-90	88	64	22	41	7*	63	DHS	S	498	W
South-Western region	1986-88	68	85				38*	DHS	S	5581	B
Udi Local Government Area							56	DHS	S	° skills n.s.	
SENEGAL								DHS	S	° skills n.s.	
National	1994	74	47	2	45		47	DHS	S	11117	
National	1988-93	74	47				47	HFA	S	4337	
National	1989	P	21				40*	DHS	S	2033	
National	1989	P	42				42	DHS	S	11117	
National	1981-86	62		1	41*		41	DHS	S	2857	
National	1981	P	30	85				DHS	S	1005	
National	1978							DHS	S	644	
National	1977	27						DHS	S	793	
National, rural	1975							DHS	S	706	
National, rural	1988-93	63	30	1	27		29	DHS	S	4337	
National, rural	1981-86	46		0.4	18*		20	DHS	S	2857	
National, urban	1988-93	94	81	4	81		85	DHS	S	4337	
National, urban	1981-86	95		2	81*		82	DHS	S	2857	
24 villages	1988-98	66	38				41*	Govt.	S	2459	
Central region	1988-93	65	36	1	35		36	DHS	S	4337	
Central region	1981-86	47			24*		24	DHS	S	2857	
Niakhar	1983-86		6					DHS	S	3428	
North Eastern region	1988-93	61	31	2	31		33	DHS	S	4337	
North-Eastern region	1981-86	41		1	25*		26	DHS	S	2857	
Sine-Saloum region, rural	1982							USAID	S	1002	
Sine-Saloum region, rural	1982-83	38*	21	20				CDC	S	1970	
Southern region	1988-93	71	40	1	38		38	DHS	S	4337	
Southern region	1981-86	64		0.2	33*		33	DHS	S	2857	
Tambacounda region	1992		38				41*	Govt.	S	3607	
Western region	1988-93	95	71	4	68		72	DHS	S	4337	

COVERAGE OF MATERNITY CARE IN AFRICA

SENEGAL cont.

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %			Postpartum care %	Trained TBA	Skilled (1+2)	Source	Data type	Sample size	Notes	Ref No	
				Doctor (1)	Midwife or nurse (2)	IBRD AFRO									
Western region	1981-86	88	<20	2	68*		70			DHS	S	1455	B * sage femme/service de santé	2657	
SIERRA LEONE	1986 P	30					25°	30°		IBRD AFRO				skills n.s.	1413
National	1984						53	53		Govt.	S			skills n.s.	2008
National	1976						39	39		Govt.	S			778	
National	1974-75						71	71		Govt.	S			653	
National, rural	1974-75						16	8		Govt.	S			653	
National, urban	1974-75						0.4	0.4		Govt.	S			653	
Bo district	1982						31	6						3430	
Bombali district	1989-90						0.4	0.4						12360	
Pujehun district	1982						10	2						3430	
Rural villages	1977						21	21						1845	
Urban areas	1977						27	27						1845	
TOGO	1984-88	43	8	2*	22*	23*	32			DHS	S			3098	B * + deliveries in health facilities; ° matrone+ass. nurse
National	1978		50	1*	9*	25°	17			UNFPA				858	
National	1984-88		32	7	4*	56*	18°	71		DHS	S			2123	
National, rural	1984-88		74	11	1*	19*	32°	21		DHS	S			2123	
National, urban	1984-88		24	1	1*	31*	14°	50		DHS	S			2123	
Central region	1984-88		63	16	3*	16*	36°	18		DHS	S			2123	
Coastal region	1984-88		29	1	1*	6*	59*	11°		DHS	S			2123	
De la Kara region	1984-88		83	16	6*	1*	81			DHS	S			2123	
Lomé	1994 P		35	10	7	1*	21*			DHS	S			9009	
Plateau region	1984-88		39	7	1*	21*	32°	29		DHS	S			2123	
Savannah regions	1984-88		24	4	1*	6*	13°	11		DHS	S			2123	

8.4 Latin America

COVERAGE OF MATERNITY CARE IN LATIN AMERICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %			Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA						
CARIBBEAN												
ANTIGUA & BARBUDA	1983-87	98	98				86°	HFA				2033
National	1983	86	86					HFA	Govt.			2334
National	1983							PAHO	PAHO			2038
National	1982							WHO	WHO			834
BAHAMAS	1985-88	99	99					PAHO				4137
National	1987	100	99					HFA	HFA			2033
National	1984	99	98					WHO	WHO			834
National	1981		98					Govt.	Govt.			2334
National	1977		87									823
BARBADOS	1983-87	98	98					HFA				2033
National	1983	98	98					WHO	WHO			834
National	1982		97					Govt.	Govt.			2334
National	1981	P	50									174
National	1978											823
CUBA	1985-88	98	100					PAHO				4137
National	1987	100	99					HFA	HFA			2033
National	1987		99					Govt.	Govt.			1991
National	1985		99					PAHO	PAHO			1534
National	1984		99					Govt.	Govt.			1261
National	1982		99									44
National	1978		96					PAHO	S			823
National	1976											826
DOMINICA	1983-87	98	65					HFA				2033
National	1984	58	58					Govt.	Govt.			2334
National	1983		96					PAHO	PAHO			1534
National	1983							WHO	WHO			834
DOMINICAN REPUBLIC	1986-91	97	92	87°	5°	°	92°	DHS	S			3281
National	1985-88	52	52					PAHO				4137
National	1983-87	60						HFA				2033
National	1982-86	95						DHS	S			1636
National	1980		64					PAHO				1534
National	1976	73	78					Govt.	S			1012
National, rural	1986-91	96	84	75°	9°	°	85°	DHS	S			3281
National, rural	1982-86	93						DHS	S			1636
National, urban	1986-91	98	97	95°	3°	°	83°	DHS	S			3281
National, urban	1982-86	96						PAHO	S			1636
Aqua+Elias Pina+San Juan regions	1986-91	90	67	55°	14°	°	69°	DHS	S			3281
Barahona+Pedernales+Bonao+Indep.	1986-91	92	83	75°	6°	°	82°	DHS	S			3281
Duarte+Monseñor Nouel+MT Sanchez+	1986-91	97	82°	10°			92°	DHS	S			3281
												3281

*Samana: *50% GP, 33% gynecol/obstetra; ° incl. nurse/assistant

** excl. partner; ° skills n.s.

*** 49% GP, 46% gynecol/obstetra; ° incl. nurse/assistant

**** excl. partner; ° skills n.s.

***** 53% GP, 23% gynecol/obstetra; ° incl. nurse/assistant

***** Samana: *50% GP, 33% gynecol/obstetra; ° incl. nurse/assistant

COVERAGE OF MATERNITY CARE IN LATIN AMERICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %				Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA	Skilled (1+2)						
Montecristi+Dajabon+S.Rodriguez+	1986-91	97	93	87*	5°	°	92°	DHS	S	136 B	VaVerde; ° 62% GP, 25% ynecol/obstetra; ° incl. nurse/assistant	3281	
Peraavia region	1986-91	96	93	89*	5°	°	95°	DHS	S	232 B	* 49% GP, 40% ynecol/obstetra; ° incl. nurse/assistant	3281	
PuertoPlata+Sanlito+Espaillat+	1986-91	99	94	87*	7°	°	94°	DHS	S	726 B	La Vega; ° 54% GP, 34% ynecol/obstetra; ° incl. nurse/assistant	3281	
Santo Domingo, D.N.	1986-91	97	97	97*	1°	°	98°	DHS	S	1190 B	* 43% GP, 55% ynecol/obstetra; ° incl. nurse/assistant	3281	
Seibo+Altamira+Romana+SP.Mavcoris	1986-91	87	92	86*	6°	°	92°	DHS	S	686 B	* 61 % GP, 25% ynecol/obstetra; ° incl. nurse/assistant	3281	
GRENADE													
National	1987-98	75			90		81°	HFA					
National	1983-87												
GUADELOUPE													
HAITI													
National	1990-95	68	20	14	6°	26°	20°	DHS	S	3624 B	* incl. auxiliary nurse; ° matrone formée	10696	
National	1984-89	71	23					CPS	S	902 W	* incl. "home-professional", skills n.s.	3542	
National	1985-88	67	20					PAHO					4137
National	1983-97	41						HFA					2033
National	1987 P	63	23					FHI					1824
National	1984 P	15						WHO					1013
National	1983	45											834
National	1982												3532
National, rural	1990-95	61	9	5	4°	27°	9°	DHS	S	2451 B	* incl. auxiliary nurse; ° matrone formée	10696	
National, rural	1984-89	61	11					CPS	S	516 W	* incl. "home-professional", skills n.s.	3542	
National, rural	1983												207
National, urban	1990-95	83	42	33	12°	22°	20°	DHS	S	1173 B	* incl. auxiliary nurse; ° matrone formée	10696	
National, urban excl. Port-au-Prince	1984-89	86	44					CPS	S	193 W	* incl. "home-professional", skills n.s.	3542	
Port-au-Prince, metropolitan	1984-89	83	71					CPS	S	193 W	* incl. "home-professional", skills n.s.	10696	
Port-au-Prince, metropolitan	1990-95	82	50	44	8°	15°	93°	DHS	S	709 B	* incl. auxiliary nurse; ° matrone formée	3542	
JAMAICA													
National	1984-89	98	79	14	78	92	92	CPS	S	3100 B		4482	
National	1985-88	95	82					PAHO					4137
National	1983-87	76						HFA					2033
National	1987							PAHO					1534
National	1986												11516
National	1986	96	82°	8	77°	13°	85°	CPS	S	10227 LB	* incl. 2% students; ° 4% unattended	3957	
National	1985												3891
National	1983												834
National	1982												1372
National	1981												2334
National	1981												360
National	1981												4482
National, rural	1984-89	98	74	10	81	13	86	Govt.	S	2237 B			4482
National, urban	1984-89	97	90	21	73	91	91	CPS	S	863 B			4482
Kingston & St Andrew	1981	78	83					CPS	S	18802 B			46
MARTINIQUE													
NETHERLANDS ANTILLES													
Curacao	1984-85	98											8420
													3444

COVERAGE OF MATERNITY CARE IN LATIN AMERICA

COVERAGE OF MATERNITY CARE IN LATIN AMERICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %			Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA						
CENTRAL AMERICA												
BELIZE												
National	1984	96	79									
National	1986-91	96	76	17	60		77	40	GMS CDC PAHO Govt.	S	6306 D 1910 B	11945
National	1984	60										4484
National	1982	63										1534
National, rural	1986-91	95	57	11	48		59	31	CDC CDC	S	914 B 996 B	2334
National, urban	1986-91	96	93	22	71		93	48				4484
COSTA RICA												
National	1987-92	95	98	56	41		97		CPS	S	1566 LB	9570
National	1989	94										8561
National	1985-88	90	94									4137
National	1983-87	91										2033
National	1981-86	90	97									3541
National	1986	68										1945
National	1983	40	94									1945
National	1983	93										1534
National	1982	P	42	97								834
National	1981		91					5				793
National	1976	82										3501
National	1975											163
National, rural	1987-92	95	98	49	47		83					161
National, rural	1981-86	87	95				96	97	CPS	S	58140 B 762 LB	9570
National, urban	1987-92	96	99	62	36		82					3541
National, urban exct. San José	1981-86	94	99				99		CPS	S	592 * 804 LB	9570
Chorotega region	1983		80				90		CPS	S	272 *	3541
San José, metropolitan	1981-86	94	98									3495
San José, metropolitan	1987-92	96	68	31			89		CPS	S	354 * 434 LB	3541
EL SALVADOR												
National	1988-93	69	51				87	30°	CPS	S	4286 W	*in addition to del. in health facility; *sub-sample of 2804
National	1985-88	34	34						PAHO	S		9400
National	1983-88	68	52					40	CPS	S	1486 W	4137
National	1983-87	69							HFA	S		3012
National	1980-85								DHS	S	3491 B	2033
National	1984										142202 LB	3009
National	1984	23							PAHO	S		2830
National	1982		50	25	35				PAHO	S	177533 B	1534
National	1977	35							PAHO	S		1534
National, excl. San Salvador	1976								PAHO	S		827
National, rural	1977		16	16	39				PAHO	S	141494 LB	826
National, rural	1988-93	61	34	49°	49°		55	21°	CPS	S	2194 W	827
National, rural	1983-88	58	34				83				765 W	9400
National, rural	1980-85						87°	30	CPS	S	1667 B	3012
National, rural	1988-93	76	68	24	53		77		DHS	S	2092 W	3009
National, urban	1983-88	77	65								407 W	3012
National, urban, excl. San Salvador	1980-85								CPS	S	886 B	3009
National, urban, excl. San Salvador	1988-93	68	39	52	39		91		DHS	S	674 W	9400
Central region	1988-93	65	42	45°	45°		87	28°	CPS	S	886939 W	9400
Eastern region								23°	CPS	S		886939 W

COVERAGE OF MATERNITY CARE IN LATIN AMERICA

EL SALVADOR cont.

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %				Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA	Skilled (1+2)						
Paracentral region	1988-93	62	36	47*	20	80	83	24*	CPS	S	630 W	* in addition to del. in health facility; *sub-sample of 364	9400
San Salvador	1977	59	60	13*	13*	95	97*	45*	PAHO	S	36039 LB		827
San Salvador, metropolitan	1988-93	82	82	84	88	81	13	56	CPS	S	971 W	* in addition to del. in health facility; *sub-sample of 694	9400
San Salvador, metropolitan	1983-88	84	88	81	13	94	97*	56	PAHO	S	314 W	° skills n.s.	3012
San Salvador, metropolitan	1980-85	80	81	46	39*	85	85	28*	DHS	S	928 B		3009
Western region	1988-93	63	46	31	3	46	35	7	DHS	S	886 W	* in addition to del. in health facility; *sub-sample of 577	9400
GUATEMALA													
National	1991-95	53	34	31	3	46	35	7	DHS	S	9150 B	* Range 5-72%; * Western standard professionals	11425
National	1988	35	23*	23	23	47*	<30*	7	Govt.	S	6187 B		4277
National	1985-88	34	23	26	26	4	51*	51*	PAHO	S	3336 B	° skills n.s.	4'37
National	1983-87	34	28	17	17	63	29	6	HFA	S	4627 B	Excluding traditional midwives	2033
National	1982-87	34	28	17	17	63	89*	6	DHS	S	4581 B	*60% partera	11413
National	1982-87	72	72	26	26	89*	89*	6	Govt.	S			3010
National	1986	28	17	18	18	40*	40*	6	WHO	S			4277
National	1984	59	18	35	35	58	58	26	DHS	S			834
National	1984	P	62	22	22	22	22	26	CPS	S			984
National	1983	44	21	18	18	3	53	21	PAHO	S			10866
National	1977	P	20	20	15	71*	*	87*	UNFPA	S			1534
National	1975	44	21	15	71*	4	31	63	DHS	S			1106
National, rural	1991-95	70	60	54	42*	*	96*	96*	DHS	S			733
National, rural	1982-87	71	63	54	42*	*	96*	96*	DHS	S			11425
National, urban	1991-95	70	60	54	42*	*	96*	96*	DHS	S			3010
National, urban	1982-87	80	80	71	34	2	56	56	DHS	S			11425
Central health region	1986	17	17	34	34	24	71*	71*	DHS	S			3372
Central region	1991-95	49	36	34	34	2	56	56	DHS	S			11425
Central region	1982-87	78	78	66	66	33*	*	95*	DHS	S			3010
Guatemala City	1982-87	82	65	64	1	25	25	99*	DHS	S			3010
Guatemala city, metropolitan	1991-95	75	65	64	1	16	16	52	CPS	S			11425
Guatemala City, metropolitan	1986	71	71	64	1	18	18	52	CPS	S			3372
Guatemala department	1979-84	75	81	85	85	53	53	23	CPS	S			10866
Interior	1979-84	48	9	37	37	27	10	25	DHS	S			10866
North-Eastern region	1991-95	68	50	36	23	23	10	25	DHS	S			11425
North-Eastern region	1982-87	50	50	36	23	60*	*	83*	DHS	S			3010
North-Western region	1991-95	72	72	10	9	9	1	67	DHS	S			11425
North-Western region	1982-87	31	10	9	9	81*	*	66*	DHS	S			3010
Northeastern health region	1986	16	19	15	5	54*	*	20	DHS	S			3372
Northern region	1986	9	19	14	14	54*	*	68*	DHS	S			3372
Northern region	1991-95	47	47	19	15	5	25	20	DHS	S			3473
Northern region	1982-87	55	55	14	14	54*	*	68*	DHS	S			11425
Northern region	1986	5	5	14	14	54*	*	68*	DHS	S			3010
Northern region	1986	18	18	18	18	54*	*	68*	DHS	S			11425
Paten health region	1986	32	23	20	4	65	24	24	DHS	S			3010
Six rural villages	1974-76	56	56	22	22	72*	*	93*	DHS	S			3372
South-Eastern region	1991-95	56	56	19	19	5	61	24	DHS	S			3473
South-Western region	1982-87	71	43	23	19	5	61	24	DHS	S			11425
South-Western region	1986	71	11	16	16	73*	*	89*	DHS	S			3010
Various areas	1986	P	12	12	12	12	12	12	DHS	S			3503

COVERAGE OF MATERNITY CARE IN LATIN AMERICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %				Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA	Skilled (1+2)					
HONDURAS												
National	1987-92	73	45	1*	*	*	33°	47	35 CPS	S	3946 W	* in addition to in del. in health facilities; Tr. TBA est.
National	1989-90	41	26									11739
National	1985-88	66	65									2776
National	1987	65										4137
National	1983-87	65										3113
National	1982-87	65	41	*								2033
National	1983	24										
National	1983											
National	1977	20	18	*	2*		39	42	26 CPS	S	5624 W	* skills n.s. * in addition to deliveries in health facilities
National	1975	26										
National, rural	1987-92	67	24	1*	*	*	45°	25	25 CPS	S	W	* in addition to del. in health facilities; Tr. TBA est.
National, rural	1982-87	59	21	*	1*	*	52	22	18 CPS	S	3722 W	* in addition to deliveries in health facilities
National, urban	1982-87	76	79	*	2*	*	14	81	41 CPS	S	1902 W	* in addition to deliveries in health facilities
National, urban (ex. TagIPS)	1987-92	81	66	2*	*	*	22°	69	45 CPS	S	W	* in addition to del. in health facilities; Tr. TBA est.
Tegucigalpa+San Pedro Sula	1987-92	80	87	1*	*	*	8°	88	48 CPS	S	W	* in addition to del. in health facilities; Tr. TBA est.
Tegucigalpa+San Pedro Sula	1982-87	79	89	*	1*	*	7	90	46 CPS	S	1170 W	* in addition to deliveries in health facilities
MEXICO												
National	1994	68	68	25*			92					
National	1987-88	70	81									
National	1985-88	68										
National	1983-87	60										
National	1982-87	71	63	65	4		87°	69				
National	1981											
National	1976-77	60	56									
National, rural	1982-87	51	37	38	6		44					
National, rural	1980-81	68	36	41	50		91					
National, rural	1976-81											
National, urban	1982-87	84	80	82	3		86					
Central zone, incl. Guadalajara	1982-87	80	73	73	7		80					
Eastern+South-Eastern zones*	1982-87	51	39	5			44					
Guanajuato+Morelos+Mexico states*	1982-85	76	77	2			79					
Mexico City	1988	P	62									
Mexico City	1982	P	90									
North-Eastern zone+Monterrey	1982-87	83	84	5			89					
Northern zone	1982-87	77	71	4			75					
Urban, excl. metropolitan areas	1982-87	79	75	5			80					
Urban, metropolitan areas*	1982-87	93	97	1			99					
NICARAGUA												
National	1988-93	71	59	2*			61	31°	31 CPS	S	5467 B	* in addition to deliveries in health facilities; *n=3470
National	1985-88	81	40									
National	1983-87											
National	1984	55*	44									
National	1984		41									
National	1976											
National, rural	1988-93	64	32									
National, rural	1987	P	5									
National, urban	1988-93	79	82	2*								
National, urban	1987	P	40-50									

* skills n.s.
° skills n.s.
° incl. Veracruz
° incl. Mexico D.F.
° incl. Mexico+Guadalajara+Monterrey

* in addition to deliveries in health facilities; *n=3470
° skills n.s.
° 1982

* in addition to deliveries in health facilities; ° n=1368
° incl. Mexico+Guadalajara+Monterrey

* in addition to deliveries in health facilities; ° n=2102
° Mexico+Guadalajara+Monterrey

* in addition to deliveries in health facilities; ° n=3470
° skills n.s.
° incl. Mexico+Guadalajara+Monterrey

* in addition to deliveries in health facilities; ° n=3470
° incl. Mexico+Guadalajara+Monterrey

* in addition to deliveries in health facilities; ° n=3470
° incl. Mexico+Guadalajara+Monterrey

* in addition to deliveries in health facilities; ° n=3470
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° incl. Mexico+Guadalajara+Monterrey

NICARAGUA cont.
COVERAGE OF MATERNITY CARE IN LATIN AMERICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %			Postpartum care %	Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA						
IV Region	1988	80	30				85	45@	CPS	S	1533	B
León municipality, rural	1988-93	90*	50*	1*	*	*	84°	PAHO				* about in addition to deliveries in health facilities; @ n=1085
León municipality, urban	1988-93	90*	84				84°	HFA				
Managua	1988-93	74					84°	Govt.	S			
PANAMA							81	CPS	S			
National	1985-88	75	86				81	CDC	S			
National	1983-87	83	72	84			89	PAHO				
National	1987						89	Govt.	S			
National	1980-85	89	89		6		81	CDC	S			
National	1979-84	89	89	*	1*		89	PAHO				
National	1984						81	Govt.	S			
National	1984	89	88				89°	WHO				
National	1983	66					83°	PAHO				
National	1983	P					68°	Govt.	S			
National	1980	65	79				80°	PAHO				
National	1979	80	84				67	Govt.	S			
National	1978	76	76				77°	PAHO				
National	1978						77°	CDC	S			
National	1976						70°	Govt.	S			
National, rural	1979-84	84	80	0.04*	2*		82	PAHO				
National, rural	1984	84	80				80°	CDC	S			
National, rural	1978						58°	PAHO				
National, urban	1980-85	95	98		1		88	CPS	S			
National, urban	1984	95	98				98°	Govt.	S			
National, urban	1979-84	95	98	*	0.01*		98	CDC	S			
National, urban	1978						99°	PAHO				
Interior	1980-85	89	85		9		79	CPS	S			
Tole/San Felix	1980-85	56	46		27		53	CPS	S			
	1983	P					9°					

* about
in addition to deliveries in health facilities;
 @ n=1085
 ° skills n.s.
 n.s. = not specified
 * married women
 * in addition to deliveries in health facilities
 D = data from
 LB = live birth
 n.s. = not specified
 P = preliminary
 S = survey
 Govt. = government
 PAHO = Pan American Health Organization
 HFA = Health Financing Agency
 CPS = Community Population Survey
 CDC = Centers for Disease Control and Prevention
 WHO = World Health Organization
 LB = live birth
 D = data from
 n.s. = not specified
 * in addition to deliveries in health facilities
 S = survey
 PAHO = Pan American Health Organization
 Govt. = government
 CDC = Centers for Disease Control and Prevention
 LB = live birth
 D = data from
 n.s. = not specified
 * married women
 Indian = Indian
 Ladino = Ladino
 * married women
 n.s. = not specified

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Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %				Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA	Skilled (1+2)					
COLOMBIA												
National	1991-95	83	77	74	11*	85	85	DHS	S	5050	B * enfermera/partera (excl. comadrona)	11123
National	1985-90	83	76	71	23*	94*	94*	DHS	S	3713	B * 13% partera	3075
National	1985-88	76	75					PAHO			skills n.s.	4137
National	1983-87	65					51*	HFA	S	2658	B * +19% comadrona/partera	2033
National	1982-86	74					71*	DHS	S	1817	B * enfermera/partera (excl. comadrona)	1635
National, rural	1991-95	70	56	52	18*	70	70	DHS	S	1257	B * 22% partera	11123
National, rural	1985-90	72	60	50	36*	87*	87*	DHS	S	1024	B * +30% comadrona/partera	3075
National, rural	1982-86	58	37	13	40*	DHS	DHS	DHS	S	3232	B * enfermera/partera (excl. comadrona)	1635
National, urban	1991-95	90	89	86	7*	93	93	DHS	S	2455	B * 9% partera	11123
National, urban	1985-90	88	85	82	16*	97*	97*	DHS	S	1634	B * +12% comadrona/partera	3075
National, urban	1982-86	83					85*	DHS	S	257	B * enfermera/partera (excl. comadrona)	1635
Antiguo Caldas subregion	1991-95	89	87	83	10	93	93	DHS	S	289	B * enfermera/partera (excl. comadrona)	11123
Antioquia subregion	1991-95	78	70	67	18*	84	84	DHS	S	437	B * inol. Medellin; * 4% partera	3075
Antioquia subregion*	1985-90	96	94	87	12*	99*	99*	DHS	S	1325	B * enfermera/partera (excl. comadrona)	11123
Atlántica region	1991-95	79	73	70	11*	81	81	DHS	S	926	B * 22% partera	3075
Atlántica region	1985-90	73	65	61	33*	94*	94*	DHS	S	643	B * +29% comadrona/partera	1635
Atlántica subregion	1982-86	63					10	DHS	S	188	B * 11% partera	3075
Atlántico+C Cartagena subregion	1985-90	86	81	81	17*	98*	98*	DHS	S	469	B * enfermera/partera (excl. comadrona)	11123
Bogotá	1991-95	90	86	87	3*	90	90	DHS	S	671	B * enfermera/partera (excl. comadrona)	11123
Bogotá	1985-90	94	95	94	3*	96	96	DHS	S	562	B * 4% partera	3075
Bogotá	1982-86	95	93	90	8*	99*	99*	DHS	S	394	B * +4% comadrona/partera	1635
Bolívar+Sucre+Córdoba subregion	1991-95	75	68	65	12*	66	66	DHS	S	423	B * enfermera/partera (excl. comadrona)	11123
Boyacá+Cundinamarca+Meta subreg	1985-90	73	63	61	34*	95*	95*	DHS	S	407	B * 24% partera	3075
Caldas+Risaralda+Quindío subregion	1985-90	94	80	66	24*	90*	90*	DHS	S	310	B * 8% partera	3075
Cali subregion	1991-95	84	89	80	17*	97*	97*	DHS	S	205	B * 4% partera	3075
Cali, metropolitan	1985-90	92	93	89	7*	96	96	DHS	S	216	B * enfermera/partera (excl. comadrona)	11123
Cauca+Nariño subregion	1991-95	75	68	65	22*	98*	98*	DHS	S	122	B * 8% partera	3075
Cauca+Nariño+Chocó subregion	1985-90	73	63	61	34*	95*	95*	DHS	S	332	B * enfermera/partera (excl. comadrona)	11123
Central region	1991-95	84	89	80	17*	99*	99*	DHS	S	268	B * 34% partera	3075
Central region	1985-90	92	93	89	7*	96	96	DHS	S	1239	B * enfermera/partera (excl. comadrona)	11123
Central region	1982-86	92	84	76	22*	98*	98*	DHS	S	895	B * 8% partera	1635
Eastern region	1991-95	74	53	49	12*	61	61	DHS	S	746	B * +20% comadrona/partera	11123
Eastern region	1985-90	72	51	47	40*	87*	87*	DHS	S	913	B * enfermera/partera (excl. comadrona)	1635
Eastern region	1985-90	82	76	73	14*	87	87	DHS	S	681	B * 10% partera	3075
Guainía+Cesar+Magdalena subregion	1991-95	83	81	73	20*	93*	93*	DHS	S	444	B * +13% comadrona/partera	1635
Gulíjar+Huila+Cauca subregion	1985-90	66	58	50	43*	69*	69*	DHS	S	433	B * enfermera/partera (excl. comadrona)	11123
Litoral Pacífico subregion	1991-95	86	81	77	11*	88	88	DHS	S	330	B * 26% partera	3075
Medellín, metropolitan	1991-95	95	94	92	5*	97	97	DHS	S	903	B * enfermera/partera (excl. comadrona)	11123
Pacific region	1985-90	80	72	67	26*	94*	94*	DHS	S	646	B * 19% partera	3075
Pacific region	1982-86	70						DHS	S	431	B * +20% comadrona/partera	1635
Santander+Norte de Santander subreg	1991-95	86	84	78	11*	89	89	DHS	S	396	B * enfermera/partera (excl. comadrona)	11123
Santander+Norte de Santander subreg	1985-90	83	74	71	19*	90*	90*	DHS	S	371	B * 13% partera	3075
Tolima+Huila+Cauca subregion	1991-95	67	55	52	24*	76	76	DHS	S	361	B * enfermera/partera (excl. comadrona)	11123
Tolima+Huila+Cauca subregion	1985-90	59	50	44	16*	79*	79*	DHS	S	352	B * 18% partera	3075
Valle del Cauca (Incl. Cali) subreg	1991-95	86	87	82	16*	98*	98*	DHS	S	378	B * 8% partera	11123
Valle del Cauca subregion	1985-90	86	89	86	7*	93	93	DHS	S	179	B * enfermera/partera (excl. comadrona)	11123

COVERAGE OF MATERNITY CARE IN LATIN AMERICA

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				Doctor (1)	Midwife or nurse (2)	Trained TBA						
ECUADOR	1989-94	75	64	57	6°	0.1°	64	33	CPS UNICEF	S	8837 B	* obstetriz/enfermera; ° assistant nurse
National	1983-90	76	66	*	3°	4	69	45	CDC PAHO	E	2998 LB	° skills n.s.
National	1985-89	48	56	59*	25		84	38	DHS HFA	S	3032 B	"health professional + deliveries in health facilities
National	1982-87	72					44°					° incl. obstetriz
National	1983-87	71					53°					° skills n.s.
National	1987						52°		Govt.	S	9529 B	° skills n.s.
National	1986								PAHO WHO			° skills n.s.
National	1981-86	74	54	27					Govt.	S	4300 W	° skills n.s.
National	1983	49							Govt.	S		° skills n.s.
National	1983	71	57	51	11		62		Govt.	S		° skills n.s.
National	1982								Govt.	S		° skills n.s.
National	1980	60	51	43	13		53		Govt.	S		° skills n.s.
National	1979								Govt.	S		° skills n.s.
National	1978								Govt.	S		° skills n.s.
National	1977	33							Govt.	S		° skills n.s.
National, rural	1989-94	66	42	38	3°	0.1°	42	24	CPS	S	4827 B	* obstetriz/enfermera; ° assistant nurse
National, rural	1982-87	59		37°	37		74	27	DHS	S	1536 B	° incl. obstetriz
National, rural	1987											° skills n.s.
National, rural	1986											° skills n.s.
National, rural	1980	83	84	75	8°	0.1°	84	43	CPS	S	4010 B	* obstetriz/enfermera; ° assistant nurse
National, urban	1989-94	83		82*	13		95	46	DHS	S	1494 B	° incl. obstetriz
National, urban	1982-87	83										° skills n.s.
National, urban	1987											° skills n.s.
National, urban	1986											° skills n.s.
National, urban	1980											° skills n.s.
Coast region	1989-94	76	70	60	9°	0.1°	70		CPS	S	3514 B	* obstetriz/enfermera; ° assistant nurse
Coast region	1981-86	73	58	*	2°	5			PAHO		4852 B	
Coast region, rural	1985-89	64	53	*	36°	52°	88	40	CDC	S	587 LB	"health professional + deliveries in health facilities
Coast region, rural	1982-87	65		*	2°	4	84	33	DHS	S	707 B	° incl. obstetrix
Coast region, urban excl. Guayaquil	1985-89	89	82	*	2°	25	95	57	CDC	S	472 LB	"health professional + deliveries in health facilities
Coast region, urban excl. Guayaquil	1982-87	80		71°	9°		96	43	DHS	S	402 LB	° incl. obstetrix
Guayaquil	1982-87	83		87°	9		95					° incl. obstetrix
Guayaquil	1985-89	86	94	*	1°	1						° incl. obstetrix
Quito	1985-89	87	84	*	2°	2	86	57	CDC	S	400 LB	"health professional + deliveries in health facilities
Quito	1982-87	85		86°	7		93	50	DHS	S	332 LB	° incl. obstetrix
Quito-Guayaquil	1984	P		95	1	96					600 W	
Sierra (Mountain) region	1989-94	74	57	55	2°	0.1°		57	CPS	S	5323 B	* obstetriz/enfermera; ° assistant nurse
Sierra (Mountain) region	1991-96	75	50	*	5°	5					4677 B	
Sierra (Mountain) region, rural	1985-89	64	38	*	37°	24°	61	31	CDC	S	822 LB	"health professional + deliveries in health facilities
Sierra (Mountain) region, rural	1982-87	59		87°	10		97	27	DHS	S	831 B	° incl. obstetrix
Sierra (Mountain) region, urban*	1982-87	83		*	87°	7	4	87	400	S	329 B	"excl. Quito; ° incl. obstetrix
Sierra (Mountain) region, urban*	1985-89	86	80	*	87°	7					328 LB	* h.p.+ deliveries in health facilities; ° excl. Quito
GUYANA	1985-88	33	90						PAHO			° skills n.s.
National	1983-87	95							HFA			° skills n.s.
National	1985	96							Govt.			
National	1984	100							WHO			
National	1979	72							Govt.			

COVERAGE OF MATERNITY CARE IN LATIN AMERICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %				Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA	Skilled (1+2)				
Cayenne Georgetown	1985	33	96					S			7759 3421
PARAGUAY											
National	1990-96	83	55								11420
National	1990-96	88	55								11420
National	1985-90	84	53	37	29*						2761
National	1990		63								4095
National	1985-98	56	35								4137
National	1983-87	57									2033
National	1984		22								1534
National	1983	65									834
National	1974-79	79	50								834
National	1977										11118
National	1975										521
National	1990-96	84	41								826
National, rural	1990-96	79	41								11420
National, rural	1985-90	76	32	18	30*						11420
National, urban	1990-96	91	76								2761
National, urban	1990-96	95	76								11420
National, urban	1985-90	93	78	60	28*						11420
Asunción	1990-96	95	84								11420
Asunción, metropolitan	1985-90	94	85	71	20*						11420
Asunción, metropolitan	1990-96	94	84								11420
Centro-Sur region	1990-96	93	59								11420
Eastern region	1990-96	75	47								11420
Eastern region	1990-96	84	47								11420
Eastern region	1985-90	80	42	28	31*						2761
Norte region	1990-96	85	39								11420
Northern region	1990-96	77	39								11420
Northern region	1985-90	67	28	14	28*						2761
South-central region	1990-96	90	59								11420
South-central region	1985-90	87	47	24	37*						2761
Unknown	1977										827
PERU											
National	1987-92	64	46	34	19*						3404
National	1983-90										1914
National	1985-88	62	49								4137
National	1983-87	60									2033
National	1981-86	55		28							1662
National	1984	65									2115
National	1984										834
National	1983										834
National	1981	P									260
National	1977-78	49	41								1117
National, rural	1987-92	38	15	10	8*						3404
National, rural	1981-86	29		8							1662
National, urban	1987-92	80	65	49	25*						3404
National, urban	1988-86	79	46	34*							1662
Coastal region, excl. Lima	1987-92	76	56	39	27*						3404

* N=3261
Preliminary data.
* enfermera/obstetra
* registered births, 30-40% of expected births; * skills n.s.

COVERAGE OF MATERNITY CARE IN LATIN AMERICA

Region, Country, Area	Year	Antenatal care %	Deliveries in health facilities %	Attendant at delivery %				Source	Data type	Sample size	Notes	Ref No
				Doctor (1)	Midwife or nurse (2)	Trained TBA	Skilled (1+2)					
Coastal, excl. Lima	1981-86	65	31	30*	61	DHS	DHS	795 B	* obstetriz/enfermera	1682		
Lima, metropolitan	1987-92	94	5	73	94	DHS	DHS	1640 B	* obstetriz/enfermera	3404		
Lima, metropolitan	1981-86	88	60	60	94	DHS	DHS	651 B	* obstetriz/enfermera	1682		
Selva (Plains) area	1987-92	49	34	22	15*	DHS	DHS	1505 B	* obstetriz/enfermera	3404		
Selva (Plains) area	1981-86	40	20	20	14*	DHS	DHS	463 B	* obstetriz/enfermera	1682		
Sierra (Mountain) area	1987-92	48	25	17	14*	DHS	DHS	3327 B	* obstetriz/enfermera	3404		
Sierra (Mountain) area	1981-86	36	12	12*	24	DHS	DHS	1247 B	* obstetriz/enfermera	1682		
SURINAME						HFA						
National	1983-87	100			91°							2033
URUGUAY												
National	1988-89	80	96	PAHO	PAHO	PAHO	PAHO	57976 LB	° skills n.s.	3113		
National	1985-88	97	57	PAHO	PAHO	PAHO	PAHO	28636 LB	° skills n.s.	4137		
National	1983	94	39	PAHO	PAHO	PAHO	PAHO	29340 LB	° skills n.s.	1534		
National, excl. Montevideo	1977	92	24	PAHO	PAHO	PAHO	PAHO		° skills n.s.	827		
Montevideo	1977	97	53	PAHO	PAHO	PAHO	PAHO		° skills n.s.	827		
VENEZUELA												
National	1989	31	97	97	97	Govt.	PAHO		° skills n.s.	2818		
National	1985-88	35	97	HFA		HFA			° skills n.s.	4137		
National	1983-87	74				WHO			° skills n.s.	2033		
National	1982								° skills n.s.	834		
National	1975-79	37	97						° skills n.s.	1257		
National	1979								° skills n.s.	769		
National	1977	68							° skills n.s.	907		
National	1975								° skills n.s.	828		