Jamaica

Worldwide, over 500,000 women and girls die of complications related to pregnancy and childbirth each year. Over 99 percent of those deaths occur in developing countries such as Jamaica. But maternal deaths only tell part of the story. For every woman or girl who dies as a result of pregnancy-related causes, between 20 and 30 more will develop short- and long-term disabilities, such as obstetric fistula, a ruptured uterus, or pelvic inflammatory disease (see box on page 2).

Jamaica’s maternal mortality rate continues at an unacceptably high level. While maternal mortality and morbidity figures vary widely by source and are highly controversial, the best estimates for Jamaica suggest that between 1,300 and 1,900 women and girls die each year due to pregnancy-related complications.\(^1\)

The tragedy – and opportunity – is that most of these deaths can be prevented with cost-effective health care services. Reducing maternal mortality and disability will depend on identifying and improving those services that are critical to the health of Jamaican women and girls, including antenatal care, emergency obstetric care, adequate postpartum care for mothers and babies, and family planning and STI/HIV/AIDS services. With this goal in mind, the Maternal and Neonatal Program Effort Index (MNPI) is a tool that reproductive health care advocates, providers, and program planners can use to:

- Assess current health care services;
- Identify program strengths and weaknesses;
- Plan strategies to address deficiencies;
- Encourage political and popular support for appropriate action; and
- Track progress over time.

Health care programs to improve maternal health must be supported by strong policies, adequate training of health care providers, and logistical services that facilitate the provision of those programs. Once maternal and neonatal programs and policies are in place, all women and girls must be ensured equal access to the full range of services.

**At-A-Glance: Jamaica**

<table>
<thead>
<tr>
<th>Population, mid-2001</th>
<th>2.6 million</th>
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<tbody>
<tr>
<td>Average age at first marriage, all women</td>
<td>20 years</td>
</tr>
<tr>
<td>Births attended by skilled personnel</td>
<td>95%</td>
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<tr>
<td>Total fertility rate (TFR) (average number of children born to a woman during her lifetime)</td>
<td>2.4</td>
</tr>
<tr>
<td>Percept TFR attributed to births by ages 15-19</td>
<td>18%</td>
</tr>
<tr>
<td>Contraceptive use among married women, ages 15-49, modern methods</td>
<td>63%</td>
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<tr>
<td>Abortion policy, 2000</td>
<td>Permitted on physical or mental health grounds</td>
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</table>

Understanding the Causes of Maternal Mortality and Morbidity

Maternal mortality refers to those deaths which are caused by complications due to pregnancy or childbirth. These complications may be experienced during pregnancy or delivery itself, or may occur up to 42 days following childbirth. For each woman who succumbs to maternal death, many more will suffer injuries, infections, and disabilities brought about by pregnancy or childbirth complications, such as obstetric fistula. In most cases, however, maternal mortality and disability can be prevented with appropriate health interventions.

Some of the direct medical causes of maternal mortality include hemorrhage or bleeding, infection, unsafe abortion, hypertensive disorders, and obstructed labor. Other causes include ectopic pregnancy, embolism, and anesthesia-related risks. Conditions such as anemia, diabetes, malaria, sexually transmitted infections (STIs), and others can also increase a woman’s risk for complications during pregnancy and childbirth, and, thus, are indirect causes of maternal mortality and morbidity. Since most maternal deaths occur during delivery and during the postpartum period, emergency obstetric care, skilled birth attendants, postpartum care, and transportation to medical facilities if complications arise are all necessary components of strategies to reduce maternal mortality. These services are often particularly limited in rural areas, so special steps must be taken to increase the availability of services in those areas.

Efforts to reduce maternal mortality and morbidity must also address societal and cultural factors that impact women’s health and their access to services. Women’s low status in society, lack of access to and control over resources, limited educational opportunities, poor nutrition, and lack of decision-making power contribute significantly to adverse pregnancy outcomes. Laws and policies, such as those that require a woman to first obtain permission from her husband or parents, may also discourage women and girls from seeking needed health care services – particularly if they are of a sensitive nature, such as family planning, abortion services, or treatment of STIs.

Early marriage is one traditional practice that affects maternal health outcomes. Many women in developing countries marry before the age of 20. Pregnancies in adolescent girls, whose bodies are still growing and developing, put both the mothers and their babies at risk for negative health consequences.

The consequences of maternal mortality and morbidity are felt not only by women but also by their families and communities. Children who lose their mothers are at an increased risk for death or other problems, such as malnutrition. Loss of women during their most productive years also means a loss of resources for the entire society.

Ensuring safe motherhood requires recognizing and supporting the rights of women and girls to lead healthy lives in which they have control over the resources and decisions that impact their health and safety. It requires raising awareness of complications associated with pregnancy and childbirth, providing access to high quality health services (antenatal, delivery, postpartum, family planning, etc.), and eliminating harmful practices.
The Maternal and Neonatal Program Effort Index

In 1999, around 750 reproductive health experts evaluated and rated maternal and neonatal health services as part of an assessment in 49 developing countries. The results of this study comprise the MNPI, which provides both international and country-specific ratings of relevant services. Using a tested methodology for rating programs and services, 10 to 25 experts in each country who were familiar with but not directly responsible for the country’s maternal health programs rated 81 individual aspects of maternal and neonatal health services on a scale from 0–5. For convenience, each score was then multiplied by 20 to obtain an index that runs from 0–100, with 0 indicating a low score and 100 indicating a high score.

The 81 items are drawn from 13 categories, including:

- Health center capacity;
- District hospital capacity;
- Access to services;
- Antenatal care;
- Delivery care;
- Newborn care;
- Family planning services at health centers;
- Family planning services at district hospitals;
- Policies toward safe pregnancy and delivery;
- Adequacy of resources;
- Health promotion;
- Staff training; and
- Monitoring and research.

Items from these categories can be grouped into five types of program effort: service capacity, access, care received, family planning, and support functions. The following five figures, organized by type of program effort, present the significant indicators from the Jamaica study.

Service Capacity

Overall, Jamaica’s service capacity to provide emergency obstetric care received a rating of 59 out of 100. Figure 1 shows ratings of the capacity of health centers and district hospitals to provide specific services. Administration of intravenous antibiotics (72) is the most commonly available service at health centers in Jamaica. The least available services are use of a partograph to determine when to refer a woman to a district hospital (17) and vacuum aspiration of the uterus (MVA) for postabortion care (17). District hospitals received relatively high ratings for providing a range of health center functions (73) and performing Cesarean-sections (76). Blood transfusions (67) are the least available service among those assessed at district hospitals in Jamaica. While health center services in Jamaica generally received lower ratings when compared to services in other countries in the Latin America/ Caribbean region, district hospital services generally received higher ratings.

Figure 1. Service capacity of health centers and district hospitals in Jamaica
Access

In most developing countries, access to safe motherhood services in rural areas is more limited than in urban areas. This issue is of particular significance for Jamaica since half of its population (50 percent) lives in rural areas. Jamaica received a rating of 82 for access, with an average of 76 for rural access and 89 for urban access. Figure 2 presents the rural and urban access ratings for eight services. For each service area, there are gaps in the ratings for rural and urban access. The largest gaps between rural and urban access are found in safe abortion services (49 vs. 70, respectively) and treatment for abortion complications (72 vs. 90) and postpartum hemorrhage (75 vs. 92). Rural access scores ranged from a low of 49 for safe abortion services to a high of 87 for 24-hour hospitalization – suggesting a need to increase access to a variety of services. Some services in urban areas received high ratings for access, though the ratings still indicate room for improvement.

Care Received

In most countries, newborn services are rated higher than delivery care or antenatal care, and this was the case for Jamaica as well. Overall, care received was given a rating of 80, with newborn care receiving an average rating of 88 compared to 75 for antenatal care and 76 for delivery care. Figure 3 presents key indicators for each type of care. One of the more important indicators of maternal mortality is the presence of a trained attendant at birth,10 which received a rating of 79. Other crucial elements that reduce maternal mortality are emergency obstetric care and the 48-hour postpartum checkup, which were rated 74 and 55, respectively. HIV counseling and testing (43) was given the lowest rating for care received, while cutting newborns’ umbilical cords cleanly (94) and drying and warming newborns immediately after birth (94) both received the highest ratings.
Overall, family planning services provided by health centers and district hospitals in Jamaica together received a rating of 76. Figure 4 presents the ratings for individual family planning services provided by health centers and district hospitals. These ratings consider facility capacity, access, and care received. Both health centers and district hospitals received relatively high ratings for postpartum family planning (92 and 87, respectively). Other high scoring services include the availability of pill supplies at health centers (92) and female sterilization at district hospitals (84). IUD insertion (69) was the lowest rated service for health centers, while male sterilization was the lowest for district hospitals (40).

Policy and Support Functions

Policy and support functions in Jamaica received an overall rating of 61. Ratings for support functions, shown in Figure 5, are divided into the following categories: policy, resources, monitoring and research, health promotion, and training. Jamaica’s ministry-level policy on maternal health received a relatively strong rating of 79. Policies regarding which personnel can provide maternal health services (78) and treatment for abortion complications (78) also received relatively strong ratings. Commitment to policies, however, needs to be reinforced through more frequent statements to the press and public by high-level government officials – an aspect of policy that only received a rating of 56.

Policies, even when they have been adopted, do not automatically translate into quality services at the local level. Many of the support functions in Jamaica, including resources, monitoring and research, health promotion, and training, are in need of further development. Ratings of the availability of free services (26) lagged behind the government budget and private sector resources, which received ratings of 50 and 57, respectively. Jamaica received relatively high ratings for a variety of monitoring and research capabilities. The lowest rated items in this category are having...
systems in place whereby strategic decisions about maternal health programs are informed by accurate data (73) and individual hospitals regularly review and learn from each case of maternal death that occurs in the facility (73).

Health promotion and education of the public are important adjuncts to the provision of health services. Topics such as harmful customs (35), pregnancy complications (40), and safe places to deliver (49) all require attention in Jamaica. Mass media should be used to educate the public about safe pregnancy and delivery, and community-based organizations should assist these efforts through systematic programs.

Finally, the education and training of health professionals is an integral part of providing high quality care and preventing maternal death and disability. While ratings suggest that hands-on obstetric care curricula (93) have been developed to a large degree, actual training in Jamaica generally receives moderate scores. The lowest rated items in this category were in-service training for newly hired doctors (51) and doctor refresher courses (55).

Global Comparisons

Overall, the experts gave maternal and neonatal health services in Jamaica a rating of 69, compared to an average of 56 for the 49 countries involved in the MNPI study. This rating places services in Jamaica second among the 49 countries. Among the 13 developing countries studied in the Latin America/Caribbean region, services in Jamaica rank first. While comparisons across countries should be made with a certain degree of caution – given the subjective nature of expert opinions and evaluations in different countries – these comparisons may help maternal health care advocates and providers in Jamaica identify priority action areas. It is also important to keep in mind that average scores may mask the differences among provinces within each country.

Table 1 compares Jamaica’s scores to the global averages for nine selected items of the MNPI. The table shows that Jamaica’s ratings for the selected maternal and neonatal health services are higher than the global averages. In particular, Jamaica fared better than the global average when considering rural access to safe motherhood services (76 vs. 39, respectively), urban access (89 vs. 68), postabortion family planning (75 vs. 54), and emergency obstetric services (74 vs. 55). Jamaica’s highest ratings are for encouraging breastfeeding (90), urban access to safe motherhood services (89), and immunization (87). The indicators receiving the lowest ratings in Jamaica – and perhaps requiring attention – are the 48-hour postpartum checkup (55), adequate budget resources (50) and voluntary counseling and testing for HIV (43).

Table 1. Comparison of global and Jamaica MNPI scores for selected items, 1999

<table>
<thead>
<tr>
<th>Indicators of Maternal and Neonatal Services</th>
<th>Global Assessment (49 country average)</th>
<th>Jamaica</th>
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<tbody>
<tr>
<td>Access to safe motherhood services by pregnant women*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rural access</td>
<td>39</td>
<td>76</td>
</tr>
<tr>
<td>Urban access</td>
<td>68</td>
<td>89</td>
</tr>
<tr>
<td>Able to receive emergency obstetric care</td>
<td>55</td>
<td>74</td>
</tr>
<tr>
<td>Provided appointment for postpartum checkup within 48 hours</td>
<td>41</td>
<td>55</td>
</tr>
<tr>
<td>Immunization**</td>
<td>76</td>
<td>87</td>
</tr>
<tr>
<td>Encouraged to begin immediate breastfeeding</td>
<td>74</td>
<td>90</td>
</tr>
<tr>
<td>Offered voluntary counseling and testing for HIV</td>
<td>30</td>
<td>43</td>
</tr>
<tr>
<td>Postabortion family planning</td>
<td>54</td>
<td>75</td>
</tr>
<tr>
<td>Adequate maternal health policy</td>
<td>72</td>
<td>79</td>
</tr>
<tr>
<td>Adequate budget resources</td>
<td>48</td>
<td>50</td>
</tr>
<tr>
<td>Overall rating</td>
<td>56</td>
<td>69</td>
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*Refers to composite scores for all the rural and urban access items.
**Refers to a composite of three immunization items: maternal tetanus immunization, DPT immunization, and other immunizations scheduled.
Summary

The MNPI ratings indicate that Jamaica has a relatively strong national policy on safe motherhood, and curricula for training health care providers have been developed to a large degree. The country also does well in terms of urban access and monitoring and research capabilities. The country must now make sure that these efforts are translated into high quality, accessible services and programs at the local level. The ratings suggest that women, overall, have reasonable access to most types of services, particularly newborn care (e.g., immunization scheduling) and some family planning methods (e.g., pills). However, there are disparities in urban and rural access to many services. Moreover, women in all regions need greater access to delivery care, including skilled attendants at birth, postpartum checkups within 48 hours of delivery, and emergency obstetric care. Voluntary counseling and testing for HIV is also limited, which may be a concern since an estimated 1.2 percent of Jamaica’s adult population (age 15-49) is living with HIV/AIDS. Finally, as in most other countries, maternal and neonatal health care services in Jamaica face resource shortages – from both the public and private sectors – that hamper expansion of services to adequately meet the needs of women.

Priority Action Areas

The following interventions have been shown to improve maternal and neonatal health and should be considered in Jamaica’s effort to strengthen maternal and neonatal health policies and programs.

- **Increase access to reproductive health, sexual health, and family planning services, especially in rural areas.** Due to the lack of access to care in rural areas, maternal death rates are higher in rural areas than in urban areas. In addition, many men and women in rural and urban areas lack access to information and services related to HIV/AIDS and other STIs.

- **Strengthen reproductive health and family planning policies and improve planning and resource allocation.** While the MNPI scores demonstrate that many countries have strong maternal health policies, implementation of the policies may be inadequate. Often, available resources are insufficient or are used inefficiently. In some cases, advocacy can strengthen policies and increase the amount of resources devoted to reproductive health and family planning. In other cases, operational policy barriers – barriers to implementation and full financing of reproductive health and family planning policies – must be removed.

- **Increase access to and education about family planning.** Another feature that relates closely to preventing maternal mortality is the provision of family planning. Family planning helps women prevent unintended pregnancies and space the births of their children. It thus reduces their exposure to risks of pregnancy, abortion, and childbirth. Reliable provision of a range of contraceptive methods can help prevent maternal deaths associated with unwanted pregnancies.

- **Increase access to high quality antenatal care.** High quality antenatal care includes screening and treatment for STIs, anemia, and detection and treatment of hypertension. Women should be given information about appropriate diet and other healthy practices and about where to seek care for pregnancy complications. The World Health Organization’s recommended package of antenatal services can be conducted in four antenatal visits throughout the pregnancy.

- **Increase access to skilled delivery care.** Delivery is a critical time in which decisions about unexpected, serious complications must be made. Skilled attendants – health professionals such as doctors or midwives – can recognize these complications, and either treat them or refer women to health centers or hospitals immediately if more advanced care is needed. Women in rural areas live far distances from quality obstetric care, so improvements depend greatly on early recognition of complications, better provisions for emergency treatment, and improved logistics for rapid movement of complicated cases to district hospitals. Increased medical coverage of deliveries, through additional skilled staff and service points, are basic requirements for improving delivery care. Reliable supply lines and staff retraining programs are also critical.

- **Provide prompt postpartum care, counseling, and access to family planning.** It is important to detect and immediately manage problems that may occur after delivery, such as hemorrhage, which is responsible for about 25 percent of maternal deaths worldwide. Postpartum care and counseling will help ensure the proper care and health of the newborn. Counseling should include information on breastfeeding, immunization, and family planning.

- **Improve postabortion care.** About 13 percent of maternal deaths worldwide are due to unsafe abortion. Women who have complications resulting from abortion need access to prompt and high quality treatment for infection, hemorrhage, and injuries to the cervix and uterus.

- **Strengthen health promotion activities.** Mass media should be used to educate the public about pregnancy and delivery, and community-level organizations should assist this through systematic programs. An important step for health promotion, in order to prevent negative maternal health outcomes, is to have the Ministry of Health supply adequate educational materials regarding safe practices.
References


2 Obstetric fistula occurs as a result of a prolonged and obstructed labor, which in turn is further complicated by the presence of female genital cutting. The pressure caused by the obstructed labor damages the tissues of the internal passages of the bladder and/or the rectum and, with no access to surgical intervention, the woman can be left permanently incontinent, unable to hold urine or feces, which leak out through her vagina. [UNFPA Press Release, July 2001]


6 The MNPI was conducted by the Futures Group and funded by the U.S. Agency for International Development (USAID) through the MEASURE Evaluation Project. For more information on the MNPI, see Bulatao, R. A., and J. A. Ross. 2000. Rating Maternal and Neonatal Health Programs in Developing Countries. Chapel Hill, NC: MEASURE Evaluation Project, University of North Carolina, Carolina Population Center.

7 This methodology for rating policies and programs was originally developed for family planning, and has also been used for HIV/AIDS. See Ross, John A., and W. Parker Mauldin. 1996. “Family Planning Programs: Efforts and Results, 1972-1994.” Studies in Family Planning 27 (3), 137-147. Also see UNAIDS, USAID, and POLICY Project. 2001. “Measuring the Level of Effort in the National and International Response to HIV/AIDS: The AIDS Program Effort Index (API).” Geneva: UNAIDS.

8 Countries in the Latin America/Caribbean region that were included in this index are: Bolivia, Brazil, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Paraguay, and Peru.


10 In the MNPI survey instrument, the term “trained” was used because it is empirically concrete whereas “skilled” is more subjective. Asking respondents about skill levels would require them to judge the probable quality of the original training and the deterioration of skills over time. While knowing about skills is really more critical, it throws more subjectivity into the data and, as a factual matter, skills were not measured.


For More Information

A complete set of results, including more detailed data and information, has already been sent to each of the participating countries. For more information, contact:

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