Success Factors for Reducing Maternal and Child Mortality

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Success factors for reducing maternal and child mortality

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Y Natalia Alfonso, Jennifer Franz-Vasdeki, Seeemen Saadat, Beth Anne Pratt, Beatrice Eugster, Sarah Bandali, Pritha Venkatachalam, Rachael Hinton, John Murray, Sharon Arscott-Mills, Henrik Axelson, Blerta Maliqi, Intissar Sarker, Rama Lakshminarayanan, Troy Jacobs, Susan Jacks, Elizabeth Mason, Abdul Ghaffar, Nicholas Mays, Carole Presern & Flavia Bustreo on behalf of the Success Factors for Women’s and Children’s Health studies

Abstract Reducing maternal and child mortality is a priority in the Millennium Development Goals (MDGs), and will likely remain so after 2015. Evidence exists on the investments, interventions and enabling policies required. Less is understood about why some countries achieve faster progress than other comparable countries. The Success Factors for Women’s and Children’s Health studies sought to address this knowledge gap using statistical and econometric analyses of data from 144 low- and middle-income countries (LMICs) over 20 years; Boolean, qualitative comparative analysis; a literature review; and country-specific reviews in 10 fast-track countries for MDGs 4 and 5a. There is no standard formula – fast-track countries deploy tailored strategies and adapt quickly to change. However, fast-track countries share some effective approaches in addressing three main areas to reduce maternal and child mortality. First, these countries engage multiple sectors to address crucial health determinants. Around half the reduction in child mortality in LMICs since 1990 is the result of health sector investments, the other half is attributed to investments made in sectors outside health. Second, these countries use strategies to mobilize partners across society, using timely, robust evidence for decision-making and accountability and a triple planning approach to consider immediate needs, long-term vision and adaptation to change. Third, the countries establish guiding principles that orient progress, align stakeholder action and achieve results over time. This evidence synthesis contributes to global learning on accelerating improvements in women’s and children’s health towards 2015 and beyond.

Introduction Worldwide, accelerated progress is required to achieve Millennium Development Goals (MDGs) 4 (reduce child mortality) and 5 (improve maternal health) as highlighted in the United Nations Secretary-General’s Global Strategy for Women’s and Children’s Health. There have been substantial achievements from 1990 (the baseline for the MDGs) to date. Child and maternal deaths decreased globally by around 50%, and contraceptive prevalence increased from 55% to 63%. There is consensus on evidence-based, cost-effective investments and interventions and on enabling health and multisectoral policies.

Despite these advances, every year 6.6 million children die before five years of age (44% as newborns) and 289,000 maternal deaths occur, most from preventable causes. Progress varies widely across countries, even where levels of income are similar. There is a need for evidence on why some low- and middle-income countries (LMICs) do better than others in preventing maternal and child deaths and on the strategies they use to accelerate progress.

This knowledge gap prompted discussions at the Partnership for Maternal, Newborn & Child Health Partners’ Forum in 2010, leading to a three-year multidisciplinary, multicountry series of studies on Success Factors for Women’s and Children’s Health (hereafter referred to as the Success Factors studies). The Success Factors studies were supported by the Partnership for Maternal, Newborn & Child Health, the World Health Organization (WHO), the World Bank and the Alliance for Health Policy and
Systems Research, working closely with ministries of health, academic institutions and other partners. The studies sought to understand what works to support countries’ progress towards the MDGs and to inform the post-2015 goals and strategies under preparation.

Methods

Analytical framework

The analytical framework for the Success Factors studies (Box 1) builds on the UN Millennium Project’s “clusters of public investments and policies”11 and WHO’s “health systems building blocks”.12 We used literature reviews and expert consultations to identify over 250 related variables to develop the database for these studies.13

Countries included

The statistical and econometric analyses included all 144 countries that the World Bank designated as LMICs in 1990. For the in-depth country reviews, we selected 10 of the 75 “Countdown to 2015” high-mortality burden countries: Bangladesh, Cambodia, China, Egypt, Ethiopia, Lao People’s Democratic Republic, Nepal, Peru, Rwanda and Viet Nam. We refer to these countries as “fast-track” because they were on track in 2012 to achieve both MDGs 4 and 5 ahead of comparable countries. (Other Countdown countries such as Liberia and the Niger are achieving fast-track progress to reduce child mortality. If we consider all 144 LMICs, rather than only the 75 Countdown countries, additional fast-track countries for reducing both maternal and child mortality include the Maldives and Turkey).

Research methods

The Success Factors studies teams developed five primary technical papers based on: (i) quantitative mapping of trends;14 (ii) econometric modelling;15 (iii) Boolean, Qualitative Comparative Analysis;16 (iv) literature review with narrative evidence synthesis;17 and (v) country-specific literature and data reviews in 10 fast-track countries.18

As a following step, ministries of health will convene multistakeholder policy review meetings in the 10 selected fast-track countries to document milestones on each country’s pathway to improving women’s and children’s health. Each country will subsequently publish a policy report.19

This article is an evidence synthesis across the five primary technical papers.14–18 To synthesize the evidence, we used a multi-grounded theory approach20(Fig. 1). We first categorized the data deductively using the studies’ analytical framework (Box 1). We then refined the thematic categories, inductively and iteratively, using a triangulate to validate approach across the qualitative and quantitative methods. Using a narrative synthesis approach21 we anchored each thematic category to data from the Success Factors studies; for example, with statistical trends, econometric models or country examples. Through regular discussions with the different study teams, we reached a shared understanding and agreement on the emerging narrative synthesis. The narrative synthesis continued until there was thematic saturation;22 that is, when existing thematic categories could accommodate new findings but no new themes were required to categorize the data.

To ensure research quality and robustness of the findings we used a triangulation of methods, with an experienced, multidisciplinary team and a series of internal and external reviews of the study design, ethics and findings.19

Results

A strong pattern of findings emerges across the Success Factors studies.14–18 Those LMICs which are making fast progress deploy strategies tailored to their unique situations and adapt quickly to change. While there is no standard formula, fast-track countries are moving ahead in three
main areas to reduce maternal and child mortality: progress across multiple sectors to address crucial health determinants (hereafter multisector progress); strategies that can catalyse accelerated progress and maximize health outcomes (hereafter catalytic strategies); and principles – based on principles of human rights and development effectiveness and political and economic models – that can help shape policies, align action and steer progress (hereafter guiding principles).

**Multisector progress**

The Success Factors studies find that the key to progress in fast-track countries is improvement across a range of health determinants within and beyond the health sector (Fig. 2, Fig. 3, Fig. 4, Fig. 5, Fig. 6, Fig 7 and Fig. 8, Table 1; Fig 5 and Fig. 6 are available from: http://www.who.int/bulletin/volumes/92/7/14-138131). For example, countries that are making accelerated progress towards MDGs 4 and 5a are also making progress on most of the other MDGs, e.g. to decrease poverty and hunger and improve education, gender equality and environmental sustainability (Fig. 7).

Economic growth underpins multisector progress, but it alone is not sufficient. The Success Factors econometric analysis by Bishai et al. indicates that gross domestic product (GDP) per capita accounted on average for only 12% of the reduction in child mortality in LMICs between 1990 and 2010. Further, the relationship between economic growth and health outcomes varies across countries. Many LMICs (e.g. India, Nigeria) experienced fast economic growth, but did not make commensurate progress on maternal and child health. Others (e.g. Bangladesh, China and Rwanda) made good progress while following diverse economic strategies.

Health-sector investments accounted for around half the mortality reduction in children under five years between 1990 and 2010 (Fig. 2). High-impact interventions and systems strengthening were important; e.g. for immunization and other child health interventions, skilled birth attendance and maternal and newborn care, and family planning. The remaining gains resulted from health-enhancing investments in other sectors; e.g. from improved levels of education, women’s political and socioeconomic participation and environmental management (e.g. for access to clean water), and reduced levels of fertility and poverty. Income inequalities within countries had a negative impact on child mortality (Fig. 2). The proportions of factors varied by country, and with the statistical models used, but the core set of multisector factors contributing to accelerated progress was the same.

The Boolean analysis highlighted a similar core set of multisector factors that display high levels of necessity, meaning that countries cannot make fast-track progress without addressing a range of factors within and beyond the health sector (Table 1). The Boolean analysis findings also indicate that no single factor approaches a sufficiency score of 1.0, which on its own would effectively guarantee fast-track progress, again emphasizing the importance of progress across sectors.

The Boolean analysis further explored whether there were specific configurations...
Fig. 3. **Multisector factors in the 75 Countdown to 2015 countries, 1990–2010**

<table>
<thead>
<tr>
<th>Factor</th>
<th>Unweighted means of absolute change between 1990 and 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDP PPP, per capita growth **</td>
<td></td>
</tr>
<tr>
<td>Poverty &lt; US$ 2 per day, %*</td>
<td></td>
</tr>
<tr>
<td>Government effectiveness index (x10)</td>
<td></td>
</tr>
<tr>
<td>Skilled birth attendance, %*</td>
<td></td>
</tr>
<tr>
<td>Doctors per 100 people*</td>
<td></td>
</tr>
<tr>
<td>Measles immunization, %</td>
<td></td>
</tr>
<tr>
<td>Prenatal care, %*</td>
<td></td>
</tr>
<tr>
<td>HIV prevalence, %</td>
<td></td>
</tr>
<tr>
<td>Health expenditure per capita, % annual growth</td>
<td></td>
</tr>
<tr>
<td>Out-of-pocket health spending, %</td>
<td></td>
</tr>
<tr>
<td>Sanitation, % access **</td>
<td></td>
</tr>
<tr>
<td>Clean water, % access</td>
<td></td>
</tr>
<tr>
<td>Total fertility rate **</td>
<td></td>
</tr>
<tr>
<td>Contraceptive prevalence, %</td>
<td></td>
</tr>
<tr>
<td>Parliament, % women*</td>
<td></td>
</tr>
<tr>
<td>Female labour force, % participation</td>
<td></td>
</tr>
<tr>
<td>Total years schooling, female</td>
<td></td>
</tr>
<tr>
<td>Total years schooling, both sexes</td>
<td></td>
</tr>
<tr>
<td>Power consumption per capita, MWh **</td>
<td></td>
</tr>
<tr>
<td>Roads paved, %</td>
<td></td>
</tr>
<tr>
<td>Published scientific papers annually, 1000s*</td>
<td></td>
</tr>
</tbody>
</table>

* P < 0.05; ** P < 0.01; GDP: gross domestic product; HIV: human immunodeficiency virus; MMR: measles, mumps and rubella; MWh: Mega Watt hour; PPP: purchasing power parity; U5MR: under-five years mortality rate; US$: United States dollars.

Note: P-values estimated using N-way ANOVA comparing fast-track countries with the 65 other countries, excluding the 10 countries with slower rates of progress, for stronger statistical power. Some values are scaled by factor of 10 to be comparable on a single chart. In 1990, across the countries, levels for most factors were not significantly different, except that fast-track countries had significantly lower prenatal care, power consumption per capita and Gini coefficient.

of factors associated with countries making fast-track progress. No single configuration of factors proved necessary or sufficient. Instead, results point to a diversity of configurations in different countries associated with fast-track progress. There were also no simple cut-off points, or levels of coverage, associated with fast-track progress, as these varied depending on country contexts, starting levels in 1990 and combined progress across a core set of multisector factors.

The Boolean analyses indicated that there were similar results for fast track progress on maternal mortality reduction. However, both the Boolean and econometric analyses were limited by the fact that the global maternal mortality estimates, e.g. from the Maternal Mortality Estimation Inter-agency Group, are based on a regression model that includes many of the key factors of interest (e.g. GDP per capita, total fertility rate, and skilled birth attendance).

Two factors identified as key enablers across the quantitative and qualitative findings in the Success Factors studies are good governance and women's political and socioeconomic participation.

### Good governance

Good governance, and particularly control of corruption, as measured by the World Bank’s Worldwide Governance Indicators, is associated with country progress (Fig. 3). Ensuring value for money is also a key feature of enabling governance, as most fast-track countries improved health outcomes despite relatively low levels of investment (Fig. 8) resulting in part from low GDP per capita and significant political and economic problems.

The Success Factors literature review found decentralized governance to be an enabling factor for accelerated progress. However, the reach, influence and even definition of decentralized governance varies considerably between countries. Rwanda has a highly centralized policymaking approach supported by district-level planning and implementation. In other countries, such as Nepal, geography and politics necessitated a much more regionalized approach. Caution is therefore needed when interpreting decentralized governance as a success factor.

### Women’s participation in politics and workforce

The Success Factors studies confirm established evidence on the links between better education and improved maternal and child health (Fig. 3 and Fig. 4).
The Success Factors studies further highlight the importance of women’s political and socioeconomic participation. Fast-track countries have significantly more women parliamentarians (Fig. 3 and Fig. 4). In Rwanda, 64% of parliamentarians are women. In Lao People’s Democratic Republic, the proportion of women members in the national legislature tripled between 1990 and 2003, with the government explicitly recognizing the importance of gender parity and rights for women, including through the Law on the Development and Protection of Women (2004). Fast-track countries also had a higher average female labour-force participation rate than other “Countdown” countries in 1990 (64% to 54%) and this rate still remained higher in 2010 (Fig. 3). Many fast-track countries (e.g. Bangladesh, Cambodia, China and Viet Nam) developed industries that employ large numbers of women. The increased wages these workers earn are potentially available for expenditure on their own health, as well as that of their children and families, and further work is needed to understand these links.

### Catalytic strategies

While fast-track countries deployed unique context-specific strategies, the Success Factors studies identified some shared catalytic strategies that these countries used to optimize the use of resources, accelerate progress and maximize health outcomes.

#### Leadership and partnerships

In the fast-track countries, actors across society played leadership roles in improving women’s and children’s health, sometimes compensating for limited government resources.

In Bangladesh, the government partners with nongovernmental organizations, communities and the private sector in the provision of health services. In 2010, over half of the births in health facilities occurred in the private sector. Nongovernmental organizations such as BRAC and the Grameen Foundation cross-subsidize health services with revenues from their commercial activities. Telemedicine and mobile phones also help increase access to health services, particularly for underserved populations.

Partnerships between communities and service providers in the “Casa Materna” scheme in Peru enable pregnant women to access health services more easily.
women in remote rural areas to await delivery in dedicated maternity centres. Transportation to hospitals is available if they need specialist care. These centres also offer culturally sensitive birthing options to promote utilization. Between 2005 and 2010, this scheme contributed to the halving of maternal mortality in the Ayacucho district.28

In Cambodia, multistakeholder partnerships promoted maternal and child health through behaviour-change communication campaigns. In 2004, the BBC World Service Trust launched a mass-media campaign using television series and radio broadcasts to promote maternal and child health themes such as exclusive breastfeeding.29 Knowledge and practice improved and national exclusive breastfeeding rates increased from 11% in 2000 to 60% in 2005 and to 74% in 2010.29

In Ethiopia, the National Nutrition Programme uses multisector partnerships to tackle undernutrition and includes social protection, food security, community nutrition programmes, micronutrient supplementation, treatment of severe acute malnutrition and a package of free health services. The country is now on track to achieve MDG 1c to reduce hunger. Child stunting rates dropped from 57% in 2000 to 44% in 2010.18,30

Decision-making and accountability

Despite limited resources, fast-track countries have developed capacities to collect, analyse and use robust evidence to inform policy, investment, implementation and accountability.

The Success Factors literature review highlights the value of evidence-based tools and health information systems.17 Save the Children’s “Saving Newborn Lives” programme demonstrated the value of decision-support tools, such as the Lives Saved Tool, now included in the United Nations One Health Tool, to support national planning.31

In Ethiopia, scorecards are used at all levels of the health system – community, regional, and national – to monitor progress on women’s and children’s health. The government views scorecards as a powerful tool to track progress and identify inequities in health services delivery.52

In China, the National Maternal and Child Health Routine Reporting System covers the whole population.51 A national system of contracts and agreements for health providers and administrators, monitors quality and service delivery at all levels.18,31

In Egypt, quality-of-care indicators (e.g. on patient satisfaction) were added to performance-based financing programmes, resulting in increased use and better quality of family planning services.24

Testing innovative, evidence-based approaches to address context-specific needs has also been critical to progress. Nepal, for example, has emphasized testing and scaling up community-based approaches.31

Approach to sustain progress

Fast-track countries achieve rapid progress by adopting a triple planning approach that focuses on: (i) quick wins with targeted or emergency strategies to address immediate, urgent needs; (ii) longer-term gains from building strong, sustainable systems to achieve a long-term vision; and (iii) adaptation to address change and sustain progress.

After the genocide, in 1994, Rwanda deployed community health workers and volunteers for urgent health needs. At the same time the country promoted investments in a long-term vision to build its professional health workforce and health facilities with medical colleges, referral hospitals and international academic and professional collaborations.26,27

Progress is not always unidirectional and countries need to adapt their strategies to sustain it. The Success Factors literature
Fig. 8. **Total health expenditure per capita worldwide and in 10 fast-track countries, 2012**

Lao PDR, Lao People’s Democratic Republic; US$: United States dollars.

Adapted from World Health Organization (2014) http://gamapserver.who.int/mapLibrary/Files/Maps/PerCapitaUSD_2012.png.
review identifies cases where progress has plateaued or reversed.  

For example, in Namibia, an upper-middle-income country, the maternal mortality ratio increased from 285 to 449 per 100,000 live births between 2011 and 2017. For more information on maternal health see Bull World Health Organ 2014;92:533–544. 

The Secretary of the Ministry of Health and Population affirmed that: “Many government strategies and policies related to safer motherhood, neonatal health, nutrition and gender are anchored in the principles of human rights.” 

Other fast-track countries used guiding principles aligned with frameworks for effective development, for example the Paris Principles and Accra Agenda for Action. In these countries, the government’s interaction with health and development partners is defined by principles of national ownership of policies and programmes, and alignment of partners with country priorities.

### Guiding principles

Fast-track countries use guiding principles to chart their own pathways to progress. These principles are not a panacea, but they nevertheless shape government strategies, align stakeholder action and orient progress towards agreed results. The principles are continually being defined, tested and reformed.

Some fast-track countries explicitly adopted human rights-based principles to guide their health and development strategies. For example, Nepal’s interim constitution is founded on human rights. 

### Table 1. Necessary and sufficient conditions for fast-track progress in reducing mortality rates in children under-five years of age in 144 low- and medium-income countries, 1990–2010

<table>
<thead>
<tr>
<th>Factors</th>
<th>Necessity Scores</th>
<th>Sufficiency Scores</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ratio of young literate females to males (ages 12–24 years)</td>
<td>0.929</td>
<td>0.289</td>
</tr>
<tr>
<td>Immunization against measles (% children aged 12–13 months vaccinated)</td>
<td>0.862</td>
<td>0.269</td>
</tr>
<tr>
<td>Total fertility rate (reduction)</td>
<td>0.862</td>
<td>0.313</td>
</tr>
<tr>
<td>Female to male ratio in primary education</td>
<td>0.857</td>
<td>0.262</td>
</tr>
<tr>
<td>Immunization with DPT (% of children aged 12–13 months vaccinated)</td>
<td>0.857</td>
<td>0.235</td>
</tr>
<tr>
<td>Immunization against measles, lagged (% 12–13 month old children)</td>
<td>0.857</td>
<td>0.245</td>
</tr>
<tr>
<td>Immunization for polio (% of one-year old children receiving three doses)</td>
<td>0.857</td>
<td>0.212</td>
</tr>
<tr>
<td>Access to improved water source (% of population)</td>
<td>0.828</td>
<td>0.273</td>
</tr>
<tr>
<td>Birth attendance by skilled health staff (%)</td>
<td>0.786</td>
<td>0.262</td>
</tr>
<tr>
<td>Births attended by skilled health staff, lagged (%)</td>
<td>0.786</td>
<td>0.262</td>
</tr>
<tr>
<td>Ethnic fractionalization (negative effect)</td>
<td>0.786</td>
<td>0.282</td>
</tr>
<tr>
<td>Immunization with DPT (% of one-year old children)</td>
<td>0.786</td>
<td>0.289</td>
</tr>
<tr>
<td>Pregnant women receiving antenatal care (%)</td>
<td>0.786</td>
<td>0.212</td>
</tr>
<tr>
<td>Total fertility rate (reduction)</td>
<td>0.786</td>
<td>0.262</td>
</tr>
<tr>
<td>Urban population (%)</td>
<td>0.786</td>
<td>0.239</td>
</tr>
<tr>
<td>Urban population, lagged (%)</td>
<td>0.786</td>
<td>0.244</td>
</tr>
<tr>
<td>Health expenditure per capita (PPP constant 2005)</td>
<td>0.714</td>
<td>0.333</td>
</tr>
<tr>
<td>Immunization with BCG (% of one-year old children)</td>
<td>0.714</td>
<td>0.189</td>
</tr>
<tr>
<td>Improved sanitation facilities (% population with access)</td>
<td>0.714</td>
<td>0.244</td>
</tr>
<tr>
<td>Physicians (per 1000 people)</td>
<td>0.714</td>
<td>0.417</td>
</tr>
<tr>
<td>Female legislators, senior officials, managers (%)</td>
<td>0.586</td>
<td>0.459</td>
</tr>
<tr>
<td>GDP per capita</td>
<td>0.586</td>
<td>0.347</td>
</tr>
<tr>
<td>Gini index (negative effect)</td>
<td>0.483</td>
<td>0.259</td>
</tr>
</tbody>
</table>

BCG: Bacillus Calmette–Guérin; DPT: diphtheria, pertussis and tetanus; GDP: gross domestic product; PPP: purchasing power parity.

* A necessity score of 1.0 is the highest and 0 the lowest. Several factors have a high necessity score – above 0.75 – indicating that a combination of multifactorial factors is required for fast track progress. A high necessity score indicates that improving this variable is necessary for fast-track progress. It does not indicate the coverage level – or cut-off point – required for fast-track progress as this varied by country.

* A sufficiency score of 1.0 is the highest and any factor with this score would effectively guarantee fast-track progress. No single factor was sufficient to ensure fast track progress, again indicating that a combination of factors is required.

* With lagged effect of 10 years.

Discussion

The Success Factors studies used a multidisciplinary approach to explore why some countries do better than others at preventing maternal and child mortality. The studies indicate that while fast-track countries did not have a simple formula for success, progress across a core set of multisector factors is essential. Fast-track countries maximize health outcomes using catalytic strategies, including through leadership and partnerships across society, and evidence-informed, innovative, context-specific approaches. They also define and test guiding principles to shape policies, align action and achieve results.

The 10 fast-track countries improved health outcomes despite relatively low health expenditures and GDP per capita, and in the face of considerable political and socioeconomic challenges. These findings are consistent with the “Good Health at Low Cost” studies that show that health can be achieved with relatively few resources if these are used strategically. Aligned with the Global Investment Framework for Women’s and Children’s Health, the Success Factors analysis shows that investments in packages of high-impact interventions and health systems contribute to better progress: for example, in immunization and other child health interventions, skilled birth attendance and maternal and newborn health care, and family planning.

The Success Factors studies note the importance of robust and timely evidence to support decision-making and promote accountability in fast-track countries. This aligns with a previous World Bank analysis emphasizing that knowledge is at least as important as economic capital in improving well-being.

The Success Factors studies findings support previous analyses showing that building on the complementary objectives and principles for development effectiveness and human rights is potentially beneficial for women’s and children’s health. There is a recognized need to continually research the definition, implementation and impact of these principles on women’s and children’s health and for inclusive, sustainable development overall. These findings are aligned with ongoing research on the impact of different political and institutional models to explain why nations fail. Political and policy analyses, and related implementation and impact assessments, are important areas for further research investment, including to understand how nations succeed.

Study approach and limitations

The Success Factors studies used different methods which highlighted some challenges. Key strategies identified in the qualitative country review data were difficult to measure quantitatively. For example, there are limited measures of enabling factors such as value for money and the adaptive capacities of different countries. For other factors such as leadership, indicators and data exist, but only for a limited set of countries and years.

The Success Factors studies did not include as factors other health-related outcomes such as the prevalence of human immunodeficiency virus (HIV) or nutritional status of the population and thus did not ascertain the effect of these variables. Further, women’s and children’s health extends well beyond mortality reduction to addressing risk factors and promoting well-being throughout the life course. While recognizing this broader context, reducing preventable maternal and child mortality was the focus of the Success Factors studies.

The quantitative analyses compared progress between fast-track LMICs and other LMICs (Fig. 3, Fig. 4, Fig. 5, Fig. 6 and Table 1). The in-depth country-specific reviews were limited by their focus on 10 fast-track countries, without a counterfactual or comparative analysis. Examining cases with unexpectedly poor positive results. Having shared goals and informed, context-specific strategies, and guiding principles to orient progress. This evidence synthesis contributes to a growing field of knowledge on how to accelerate progress for women’s and children’s health towards 2015 and beyond.

Conclusion

The Success Factors studies confirm, as posited by the UN Millennium Project, that investments across multiple sectors are required for countries to accelerate progress towards health and development goals. Importantly, this integrative, cross-sectoral approach is being emphasized in the design of the post-2015 sustainable development goals. Other enabling factors include good governance, evidence-informed, context-specific strategies, and guiding principles to orient progress. This evidence synthesis contributes to a growing field of knowledge on how to accelerate progress for women’s and children’s health towards 2015 and beyond.

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عمل أسباب النجاح في الحد من وفيات الأمومة والطفولة

يتمثل أسباب النجاح في الهدف الإنمائي للألفية (MDG) بال полно وامكاني أكثر مما تميزت منه على نطاق واسع في البلدان الأخرى. وتحل مسألة الاستعداد والتنمية وسياسات التحكم والتغذية حالة استثمار كبير في قطاعات أخرى غير الصحة. ثانياً، تختلف البيانات في التعلم العالمي المعني بتسريع التحسينات في مجال صحة أصحاب المصلحة وتحقق النتائج بمرور الوقت. ويسهم تركيب العاجلة والرؤية طويلة الأمد والتكيف مع التغير. ثالثاً، تضع لاتخاذ القرارات والمساءلة ونهج تخطيط ثلاثي لدراسة الاحتياجات العامة، وتحظى على الانتباه وتكون مع التغير. ثانياً، يستخدم هذه البلدان استراتيجيات لحشد الشركاء في مختلف قطاعات المجتمع، باستخدام البيانات القوية في الوقت المناسب لاختيار القرارات والمساعدة في تشكيل الاتجاهات الاستراتيجية، والعمل بناءً على الاطلاع والرؤية طويلة الأمد والتكيف مع التغير. ثالثاً، تضع البلدان المبادئ الإرشادية التي توجه التقدم وتوائم مع إجراءات أصحاب المصطلحات وتحقيق النتائج المرجوة. وبهذه الطرق، تمكن البلدان في البلدات العشر في مبادرة المسار السريع من تحقيق أولويات الأهداف الإنمائية للألفية 

ملخص

عوامل النجاح في الحد من وفيات الأمومة والطفولة

ملاحظات: النسبة الرئيسية الثلاثة بينما الحد من وفيات الأمومة والطفولة.
تأتي هذه البلدان بإشراف العديد من القطاعات في التعامل مع المحددات الخاصة في مجال الصحة. وقد تنفتح على نطاق الأدوار في وفيات الطفولة في البلدان المختطفة والمتواضعة. الدرفلة منذ عام 1990 عن الاستثمارات في القطاعات، ونوعية الاستثمارات في قطاعات خارج الصحة.

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ملاحظات: النسبة الرئيسية الثلاثة بينما الحد من وفيات الأمومة والطفولا
Resumen

Factores de éxito para reducir la mortalidad materna e infantil

La reducción de la mortalidad materna e infantil es una prioridad en los Objetivos de Desarrollo del Milenio (ODM), y probablemente lo seguirá siendo después de 2015. Existen evidencias sobre las inversiones, las intervenciones y las políticas necesarias, pero se sabe menos acerca de por qué algunos países logran un progreso más rápido que otros países comparables. Los estudios relatan que el éxito en la Salud de las Mujeres y los Niños se debe a un conjunto de factores eficaces en tres principales áreas: el plan de largo plazo y la adaptación a los cambios. Sin embargo, compartir ciertos enfoques eficaces a la hora de abordar tres áreas principales para reducir la mortalidad materna e infantil. En primer lugar, involucran a numerosos sectores para hacer frente a los factores sanitarios decisivos. Alrededor de la mitad de la reducción de la maternal infantil en los PIBM desde 1990 es el resultado de inversiones en el sector de la salud y la otra mitad se atribuye a las inversiones realizadas en sectores fuera del ámbito sanitario. En segundo lugar, estos países utilizan estrategias para movilizar a socios a través de la sociedad, utilizando evidencias oportunas y sólidas para la toma de decisiones y la rendición de cuentas, así como un enfoque de planificación triple para considerar las necesidades inmediatas, la visión a largo plazo y la adaptación al cambio. En tercer lugar, los países establecen principios rectores que orientan el progreso, armonizan las acciones de las partes interesadas y logran resultados en el tiempo. Este compendio de evidencias contribuye al aprendizaje global sobre cómo acelerar las mejoras en la salud de mujeres y niños hacia el 2015 y más adelante.

Referencias


Fig. 5. Multisector factors in African countries with the fastest and slowest rates of maternal and child mortality reduction, 1990–2010

10 African countries with the fastest rates of both U5MR and MMR reduction
Other African countries (38 countries)
10 African countries with the slowest rates of both U5MR and MMR reduction

* P < 0.05; ** P < 0.01; GDP: gross domestic product; HIV: human immunodeficiency virus; MMR: measles, mumps and rubella; MWh: Mega Watt hour; PPP: purchasing power parity; US$: United States dollars.

Note: P-values estimated using N-way ANOVA. Some values are scaled by factor of 10 to be comparable on a single chart.
Fig. 6. Progress across 10 fast-track countries and 10 comparison countries, 1990–2010

Unweighted means of absolute change between 1990 and 2010

| Fast-track country: Bangladesh, Cambodia, China, Egypt, Ethiopia, Lao People’s Democratic Republic, Nepal, Peru, Rwanda and Viet Nam |
| Comparison country: Bhutan, Burundi, Ecuador, India, Mongolia, Morocco, Myanmar, Pakistan, Philippines and Uganda |

* P < 0.01; GDP: gross domestic product; HIV: human immunodeficiency virus; MWh: Mega Watt hour; PPP: purchasing power parity; US$: United States dollars.

Note: P-values estimated using N-way ANOVA. Some values are scaled by factor of 10 to be comparable on a single chart. For each Success Factor fast-track country, one matched control country was identified to form a comparison group. These controls were selected based on similarities in 1990 by geographical region, under-five years mortality rate, U5MR, maternal mortality rate, GDP gross domestic product per capita, and population. These control countries have the added benefit of being in different geographical regions and not being affected by high rates of HIV infections, as were the “slow-track” countries in Fig 3, Fig 4 and Fig 5 that were all African countries.