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Study Design Articles

Bringing evidence to policy to achieve health-related MDGs for all: justification and design of the EPI-4 project in China, India, Indonesia, and Vietnam

Sarah Thomsen M, Nawi Ng, Xu Biao, Göran Bondjers, Hari Kusnanto, Nguyen Tanh Liem, ...show all Article: 19650 | Received 31 Aug 2012, Accepted 10 Feb 2013, Published online: 13 Mar 2013

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Abstract

Background: The Millennium Development Goals (MDGs) are monitored using nationallevel statistics, which have shown substantial improvements in many countries. These statistics may be misleading, however, and may divert resources from disadvantaged populations within the same countries that are showing progress. The purpose of this article is to set out the relevance and design of the "Evidence for Policy and Implementation project (EPI-4)". EPI-4 aims to contribute to the reduction of inequities in the achievement of health-related MDGs in China, India, Indonesia and Vietnam through the promotion of research-informed policymaking.

Methods: Using a framework provided by the Commission on the Social Determinants

social and structural determinants, in China, India, Indonesia and Vietnam.

Results: To understand country-level MDG achievements it is useful to analyze their social and structural determinants. This analysis is not sufficient, however, to understand within-country inequities. Specialized analyses are required for this purpose, as is discussion and debate of the results with policymakers, which is the aim of the EPI-4 project.

Conclusion: Reducing health inequities requires sophisticated analyses to identify disadvantaged populations within and between countries, and to determine evidencebased solutions that will make a difference. The EPI-4 project hopes to contribute to this goal.

equity	Millennium Development Goals	social determinants of health	evidence to policy	network
Asia				

The purpose of this article is to provide the relevance and design of the 'Evidence for Policy and Implementation project (EPI-4)', which aims to reduce inequities in achievement of the health-related Millennium Development Goals (MDGs) in China, India, Indonesia, and Vietnam through the promotion of informing research evidence with policy in these four countries.

Background

According to the World Health Organization (WHO), while there is still much to achieve, there have been significant, positive changes in health-related MDGs on the global and country levels since 1990 1. Under-five mortality has declined by 35%, maternal mortality has decreased by 2.3% per year, skilled birth attendance has increased from 55 to 65%, neonatal mortality has decreased by 28%, mortality due to tuberculosis has decreased by one-third, and the HIV epidemic has stabilized. However, these achievements are often occurring in an inequitable manner. In other words, while overall progress has been made, gaps in achievements between and within many

the least likely to have benefited from achievements. For example: poor, rural children are less likely to have received measles vaccination than their richer, urban counterparts 2.

Some regions are particularly affected by inequity in the achievement of MDGs. In Southern Asia, the wealthiest women are five times more likely than the poorest to have been attended to by a trained health care worker when giving birth 2. These health inequities have been most marked in the countries where economic growth has been particularly inequitable. For example, in India, where the annual per capita growth rate has hovered around 8% for the last decade, use of antenatal care services increased by 12% from 1996 to 2008, but only 0.1% among the poor. At the same time, 37% of the population is living in poverty (in some states, over 50% of the population) 3. The conclusion can only be that economic growth may be necessary, but not sufficient for improving the health of all. Governments must also be prepared to invest the benefits of economic growth in services that will actively promote reductions of health inequity, such as public health care and public education 4.

Unfortunately, the use of MDG targets has led to a focus on improving the proportion of people benefiting in a particular aspect of welfare – increased income, education, health, sanitation, housing, etc. – rather than on equitable distribution of health. In the implementation of MDGs, across these different areas, such targeting has often led to efforts being placed on improving the welfare of those most easily reached, otherwise referred to as 'cherry-picking' $\underline{\mathbf{5}}$. Health interventions associated with MDGs 4, 5, and 6, for instance, are mainly applied through established health services to which only a minority of the population have easy access, usually the same fraction for all interventions $\underline{\mathbf{6}}$. In effect, the goal-oriented approach of the millennium development approach has created an incentive for governments to implement utilitarian approaches to health as opposed to universalist ones, in the hopes of achieving 'trickle-down' effects $\underline{\mathbf{7}}$. The result of this has been to create a greater disparity between those lifted 'above the poverty line' and those left behind $\underline{\mathbf{8}}$. Therefore, while national MDG targets are approached in many countries, and average welfare increases, so does inequity $\underline{\mathbf{9}}$.

Social determinants of health

commitment ... to develop and implement goals and strategies to improve public health with a focus on health inequities, and to take into account health equity in all national policies that address social determinants of health 10. The Commission on the Social Determinants of Health (CSDH) has developed a framework for illustrating the mechanisms by which structural and social factors affect equity in health. This framework recognizes that there are multiple causes for health outcomes besides individual behavior and health service delivery 11. The model specifies three types of determinants of health: 1) the socioeconomic and political context, 2) structural determinants and socioeconomic position, and 3) intermediary determinants such as individual behavior and the health system (Fig. 1).

Social determinants of health framework (WHO, 2010). [Permission to reprint Fig. 1. granted from WHO]. SOCIOECONOMIC AND POLITICAL CONTEXT Governance Material Circumstances Policies Policies Position (Living and Working, Conditions, Food IMPACT ON EQUITY IN HEALTH Availability, etc.) Social Policies cial Class haviors and AND Housing, Land ı city (racism WELL-BEING **Public Policies** Occupation Culture and Income Health System STUCTURAL DETERMINANTS INTERMEDIARY DETERMINANTS SOCIAL DETERMINANTS OF SOCIAL DETERMINANTS **HEALTH INEQUITIES** OF HEALTH Display full size

The socioeconomic and political context includes governance issues, such as corruption, policies around wealth transfer, education and health care, and cultural norms around men and women, and the acceptable behavior of children and adolescents. This environment generates or reinforces social stratification that defines individual socioeconomic position, including social class (often measured by proxy variables such as education, occupation and household income or wealth indices), gender, and ethnicity. Together, these make up the structural determinants of health. These structural determinants do not affect health directly. Rather, they are mediated by determinants such as material circumstance, individual behavior and biological

proposed, in turn, to affect socioeconomic position and the socioeconomic and political context.

The majority of the world's poor (approximately 1.3 billion) now live in middle-income countries (MICs), such as China, Brazil, India, and Indonesia 12. This is a drastic change from 1990 when 93% of the world's poor were estimated to live in low-income countries (LICs). MICs today experience considerable inequity in the distribution of health services, and other specific health challenges, such as those caused by effects of rapid industrial and urban growth.

Below we compare national-level MDG targets and results for four emerging economies: China, India, Indonesia, and Vietnam. Together, these four countries represent about 42% of the world's population, with GDP growth rates of over 6% 13. At the same time, they have varied results in terms of social and health outcomes, including MDG targets. In order to illustrate the role of social determinants of health, we contrast these results with structural and intermediary determinants of health and health inequity for these same countries.

The latest MDG statistics from 2010 show reductions of 50% or more in under-five mortality and infant mortality across the four countries (Table 1). Immunization against measles is at nearly 100% in China and Vietnam. India and Indonesia have also made great strides (32 and 53% improvements, respectively). Similarly, maternal mortality rates have decreased by over 60% in each of these countries, although the overall rates are still unacceptably high in India (200/100,000) and Indonesia (220/100,000), in particular. When looking at some of the most important intermediary determinants of maternal mortality, it becomes clear why India and Indonesia are, on the whole, far from reaching their targets. India has an inadequate percentage of births attended by skilled health personnel (52.7%), low contraceptive use among married women (54.8%), high levels of unmet need (20.5%), and few women who have attended at least four antenatal care visits (26.9%), although the latter has improved by 51% in the last 20 years. Indonesia has better coverage of births by skilled personnel (79.4%) and contraceptive use (61.4%), but low antenatal care coverage (at least 4 visits=55.4%) and a very high adolescent birth rate (52.3%). There are other structural factors that also contribute to India and Indonesia's low performance in achieving MDGs that we will explore below.

Table 1. Percentage change from 1990 to 2010 for MDGs 4 and 5 in four Asian countries



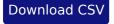
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The status of tuberculosis is still very tenuous in three of the four countries. While China has made significant advances on a national level (TB prevalence 108/100,000), India, Indonesia, and Vietnam still have TB prevalence rates of 256, 289, and 334/100,000, respectively. Although TB treatment success rates area around 90% in all countries (95% in China), the TB detection rate under DOTS is still worryingly low in India (59%), Indonesia (66%), and Vietnam (54%).

Table 2 also indicates another problem with country reporting, which is that there is little national data for some of the MDG indicators on HIV and malaria. In some cases, the country reports, such as the UNAIDS country progress reports 14, simply state that data on, for example, 'sexual intercourse with more than one partner in the past 12 months' are "irrelevant".

Table 2. Percentage change from 1990 to 2010 for MDG 6 in four Asian countries



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Moving backwards through the CSDH model, we now turn to some selected 'intermediary determinants' of health (Table 3). Starting with the health system, China has dedicated twice as much of its GDP on health as Indonesia (5.1% vs. 2.6%), but less than Vietnam (6.8%). However, out-of-pocket expenditures (out of total expenditures on health) are reportedly similar in China (36.6%) and Indonesia (38.3%). In India and Vietnam, approximately 60% of all expenditures on health are out-ofpocket. Coverage of community health workers, the first line of primary health care, is below 1 per 1,000 in India (0.05), Indonesia (0.001), and China (0.83) (no information available for Vietnam). Interestingly, there are more physicians than nurses/midwives per 1,000 people in China (1.42 vs. 1.38) and Vietnam (1.22 vs. 1.0). In Indonesia (0.29 vs. 2.04) and India (0.65 vs. 1), the ratio is more geared toward the mid-level providers

Table 3. Intermediary determinants of health in four Asian countries





Individual behavioral and biological factors, psychosocial factors and material circumstances also have an effect on equity in health, both directly and through use of health services. Smoking levels amongst men in Indonesia (61.3%), China (51.2%), and Vietnam (48.2%) are extremely high. Exclusive breastfeeding in the first 6 months of a child's life is relatively high in India (46.4%), compared to China (27.6%), Vietnam (16.9%), or Indonesia (15.3%). Use of 'improved drinking sources' is fairly high on a national level: 90% in China, India, and Vietnam, and 82% in Indonesia. However, 'improved sanitation' is poor in all countries, with large variations: 76% in Vietnam, 64% in China, 54% in Indonesia, and a very low 34% in India. The prevalence of wasting in children under five – an indicator of poor access to food – is very high in India (20%) and Indonesia (14.8%). In Vietnam almost one in ten children exhibit wasting; in China this figure is 2.3%.

The CSDH framework, which is based on hundreds of studies conducted over 20–30 years, posits that social position is the most important determinant of health inequity <u>11</u>. The actual mechanism for this is not completely clear, but it is clear that education, ethnicity, social status, gender, income, and occupation are linked to many health outcomes. The link may be 'social capital', which is represented by the resources that an individual has access to through his or her social environment, which is determined by the above variables. Living in an urban slum environment is one indicator of socioeconomic position. The proportion of the population living in urban populations in the four countries is highest in China (47.8%) and Indonesia (44.6%). India (30.3%) and Vietnam (31%) have relatively smaller urban populations (Table 4). 1 On the other hand, Vietnam has the highest proportion of urban slum residents (35.2%). In China and India, urban slum populations are around 30% and it is 23% in Indonesia.

Table 4. Selected structural determinants related to socioeconomic position in four Asian countries

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The Human Development Index (HDI) is a composite measure of: 1) education, 2) standard of living, and 3) length and quality of life, with 1 being the highest level of human development according to these aspects. In 2011, China (0.687) was considered to have a 'medium-high' human development level, whereas Indonesia (0.617), Vietnam (0.593), and India (0.547) were all considered to have 'low-medium' human development levels. These 'scores' on the HDI are reflected in poverty and education statistics for the four countries. The poverty headcount ratio is measured as the proportion of the population that is living under the national poverty level. The highest proportion of poor is found in India (29.8%), followed by Indonesia (13.3%) and China (2.8%). Net enrollment in primary school is almost 100% in all countries (data not available in China), and adult literacy is over 90% except in India (62.8%).

Attitudes and norms regarding men's and women's roles and responsibilities in society are strongly related to health behaviors and outcomes 15. The expression of norms in a society can be measured in many different ways. The Gender Inequality Index reflects inequalities in achievement between men and women in reproductive health, educational attainment, and the labor market, with 0 indicating perfect equality. Gender inequality in these areas is worst in India (0.617) and Indonesia (0.505). China (0.209) and Vietnam (0.305) are much closer to reaching equality. 2 This index may go a long way to explaining the differences in achievement in MDG 4 and 5 between the four countries. For example, labor participation for men and women is an important indicator of the ability of women to generate income, which is related to how household resources are spent (on health care costs for children or food, for example). The ratio of female to male labor participation is fairly high in China (0.845) and Vietnam (0.894), but low in Indonesia (0.605), and very low in India (0.404).

Education of girls is also a strong determinant of health outcomes for the whole family. Gender parity in primary school (enrolment of girls to boys) is at (or over) 1 in all countries but Vietnam (0.94), and the ratio of females to males with a secondary education is much lower in all four countries: 0.778 in China, 0.528 in India, 0.778 in Indonesia, and 0.884 in Vietnam, with 1 being perfect parity. This means, for example, that for every woman with a secondary school education in India there are two men with at least that level of education.

The reproductive health of women is partially determined by patterns of early marriage. The longer they wait to marry, the longer they tend to wait to begin childbearing, and

The teenage pregnancy rates (aged 15-19) were 16% in India in 2006 and 9% in Indonesia in 2007 (data not available in China and Vietnam). Thus, gender norms that are reflected in low levels of women's achievement in secondary school, low participation in the labor market, high levels of teenage pregnancy, and the high levels of poverty in India and Indonesia are likely strong social determinants of the poor health results reported above.

In the CSDH framework, the socioeconomic and political structure of a country is purported to create the conditions that make possible differences based on socioeconomic position. For example, policies around education and social protection can create an enabling or disabling environment for different segments of the population to attend school, or for women to work. Thus, the high ratio of female to male participation in the labor market in Vietnam discussed above (89%) is likely related to the fact that the state subsidizes day care for children below school age, which is not the case in the other three Asian countries in this study, although all require employers to allow parental leave for at least 3 months (Table 5). Similarly, legislation often reflects cultural and social values that, as we have seen above, have an effect on behaviors and ultimately health. Thus, the high legal age at marriage in China, i.e. 20 years, is probably a protective factor against adolescent pregnancies, but also is an enabling factor for higher education among women seen in this country, along with the benefits this provides in health.

Table 5. Selected structural determinants related to the socioeconomic and political context in four Asian countries

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Other structural determinants that have been identified as important for health are governance, and macroeconomic policies. The Corruption Perception Index (CPI) has been used since 1995 to track perceptions of corruption in the public sector within countries. Since corruption is difficult to identify and trace, perceptions of corruption have been found to be more reliable. A score of 10 indicates no perceived corruption (most closely achieved in New Zealand, with 9.5). All four countries' CPIs indicate low confidence in the public sector's ability to govern (all around 3), which may affect how

these countries. This, in turn, will affect the social standing of that person, or the group to which he/she belongs, according to the CSDH framework.

The final statistic that we present for the four countries is the annual growth rate of the gross domestic product (GDP). All have very high growth rates: 10.4% for China, 9.6% for India, 6.8% for Vietnam, and 6.2% for Indonesia in 2010. This indicates that there may be financial resources available to create the necessary social and structural conditions to improve the health and welfare of the populations of these Asian countries.

This review of selected indicators of social determinants of health in four Asian countries has allowed us to identify potential causes and determinants of ill-health. However, it is not sufficient to remain on this level. The differences within countries are often greater than the differences between them. Therefore, the use of national targets to reflect achievement of the MDGs is, as we discussed in the introduction, misleading at best and destructive at worst $\underline{5}$ $\underline{9}$. Subsequently, sub-national (provincial/state or district level) analyses to identify populations that are disadvantaged in relation to achievement of the MDGs and to disentangle the effects of different determinants on inequity in achievement of the MDGs are necessary. Finally, trend analyses are necessary to identify whether or not inequity gaps between different populations (i.e. the rich/poor, minority/majority, urban/rural) are increasing or decreasing, and whether the rate of these changes is greater or less in the different groups. This information will allow policymakers to pinpoint the greatest causes and determinants of inequity in achievement of the MDGs in their countries. Below we present the EPI-4 project, which is designed to help policymakers to do this in China, India, Indonesia, and Vietnam.

The EPI-4 project

Increasing the use of research evidence in policymaking and implementation is widely recognized as a critical aspect to achieving health for all by 2015 16. Doing so will require creating more effective mechanisms to bridge the know-do gap and address implementation issues 17. Facilitating factors to effectively link research to action are personal contacts between researchers and policy makers, timeliness and relevance of the research, and producing the research in a format that is actionable with clear policy values, costs, and availability of resources. The research syntheses should address both the know-do gap and optimal ways of effective implementation 20.

The World Health Organization's Task Force on Research Priorities has called for more use of research in identifying and evaluating policy options to reduce health inequities 21. EPI-4 (Evidence for Policy and Implementation) was designed to increase capacity to make evidence-informed decisions on policies and implementation for health for disadvantaged groups in relation to MDGs 4, 5, and 6 in China, India, Indonesia, and Vietnam. The project will identify and use networks in each country to discuss evidence on inequity in achievement of the health-related MDGs and to plan for evidence-based interventions to reduce inequities. The evidence will be gathered and analyzed by researchers based at four Swedish universities: Karolinska Institutet, Gothenburg University, Umeå University, and Uppsala University, working in conjunction with longstanding partners in the four countries - Fudan University and Peking University, China; University of Gadjah Mada, Indonesia; the Public Health Institute of India; and the National Pediatric Hospital in Vietnam - and the ministries of health in these countries. The researchers will conduct systematic reviews to identify the most disadvantaged groups in relation to MDGs 4, 5, and 6 in each country (not all countries will look at each MDG outcome). We will also conduct secondary data analyses of large, existing datasets in each country, using the CSDH framework as a basis. These analyses will include: 1) descriptive statistics to show discrepancies in MDGs 4, 5, and 6 achievements across different population sub-groups within each country to fill gaps identified in the literature review; 2) regression analyses to identify the most important sources of inequity for various health outcomes, stratified by different groups; and 3) trend analyses of longitudinal or repeated cross-sectional data to determine whether or not equity has increased or decreased over time, and, if so, which groups have benefited. These results will be discussed in small network meetings of 10-15 persons consisting of academicians, policymakers, and other civil society representatives (such as non-governmental organizations) in each country. Results will be published in international, peer-reviewed, open-access journals, and results will also be summarized in research briefs. The project will end with a regional conference with high-level policymakers convened to discuss realistic approaches to reducing inequity in maternal and child health and infectious disease control and treatment.

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Notes

¹Differences in the definition of 'urban' may also be somewhat responsible for these differences.

²As a comparison, the country that was closest to reaching gender equality according to this definition in 2011 received a score of 0.049 (Sweden).

Related Research Data

The Millennium Development Goals: a cross-sectoral analysis and principles for goal setting after 2015

Source: The Lancet

Making health systems more equitable

Source: The Lancet

Assessing country-level efforts to link research to action

Source: Bulletin of the World Health Organization

Equity and child-survival strategies

Source: Bulletin of the World Health Organization

A framework for mandatory impact evaluation to ensure well informed public

Source: The Lancet

The Millennium Development Goals Report 2010

References

1. WHO. (2011). Monitoring the achievement of the health-related Millennium Development Goals. Geneva: World Health Organization.

Google Scholar

2. UN. (2010). The Millennium Development Goals Report 2010. New York: United Nations.

Google Scholar

3. Tendulkar S, Radhakrishna R, Sengupta S. Report of the expert group to review the methodology for estimation of poverty. Government of India, Planning Commission. New Delhi, 2009

Google Scholar

4. Dreze J, Sen APutting growth in its place. It has to be but a means to development, not an end in itself. Available from: http://OutlookIndia.com [cited 14 November 2011]..

Google Scholar

5. Langford M. A poverty of rights: six ways to fix the MDGs. IDS Bulletin. 2010; 41: 83-91.10.3402/gha.v6i0.19650.

Web of Science ® Google Scholar

6. Mulholland EK, Smith L, Carneiro I, Becher H, Lehmann D. Equity and child-survival strategies. Bull World Health Organ. 2008; 86: 399-407.10.3402/gha.v6i0.19650.

PubMed | Web of Science ® | Google Scholar

7. Thomsen S, Hoa DT, Malqvist M, Sanneving L, Saxena D, Tana S, et al.. Promoting

82.10.3402/gha.v6i0.19650.

PubMed Web of Science ® Google Scholar

8. Gwatkin DR, Bhuiya A, Victora CG. Making health systems more equitable. Lancet. 2004; 364: 1273-80.10.3402/gha.v6i0.19650.

PubMed | Web of Science ® | Google Scholar

9. Waage J, Banerji R, Campbell O, Chirwa E, Collender G, Dieltiens V, et al.. The Millennium Development Goals: a cross-sectoral analysis and principles for goal setting after 2015 Lancet and London International Development Centre Commission. Lancet. 2010; 376: 991-1023.10.3402/gha.v6i0.19650.

PubMed | Web of Science ® | Google Scholar

.0. World Health Assembly, resolution 64.14. Available from: http://apps.who.int/gb/ebwha/pdf files/WHA62-REC1/WHA62 REC1-en-P2.pdf[cited 27 February 2013]...

Google Scholar

.1. Solar O, Irwin A. A conceptual framework for action on the social determinants of health. Social determinants of health Discussion Paper 2 (Policy and Practice). World Health Organization. Geneva, 2010

Google Scholar

.2. Sumner A. Global poverty and the new bottom billion: what if three-quarters of the world's poor live in middle-income countries? IDS Working Paper 349. Volume November. Institute of Development Studies. Brighton, 2010

Google Scholar

.3. WorlddataBank. Availabe from:

http://data.worldbank.org/indicator/NY.GDP.MKTP.KD.ZG[cited 27 February 2013]...

Google Scholar

.4. Country Progress Reports. Available from: http://www.unaids.org/en/dataanalysis/knowyourresponse/countryprogressreports/20 10countries/[cited 27 February 2013]..

Google Scholar

.5. World Health Organization: Women and health. Today's evidence, tomorrow's agenda. Geneva: World Health Organization. 2009.

Google Scholar

.6. Wallin L. Evidence-based practice in a global context: the case of neonatal mortality. Worldviews Evid Based Nurs. 2008; 5: 167-9.10.3402/gha.v6i0.19650.

Google Scholar

.7. Oxman AD, Bjørndal A, Becerra-Posada F, Gibson M, Block MAG, Haines A, et al.. A framework for mandatory impact evaluation to ensure well informed public policy decisions. Lancet. 2010; 375: 427-31.10.3402/gha.v6i0.19650.

PubMed Google Scholar

.8. Innvaer S VG, Trommald M, Oxman A. Health policy-makers' perceptions of their use of evidence: a systematic review. J Health Serv Res Pol. 2002; 7: 239.10.3402/gha.v6i0.19650.

PubMed | Google Scholar

.9. Lavis J, Lomas J, Hamid M, Sewankambo NK. Assessing country-level efforts to link research to action. Bull World Health Organ. 2006; 84: 620-28.10.3402/gha.v6i0.19650.

PubMed | Web of Science ® | Google Scholar

20. Lavis J, Davies H, Gruen R. Working within and beyond the Cochrane Collaboration to make systematic reviews more useful to healthcare managers and policy makers. Healthcare Policy. 2006; 1: 21-33.

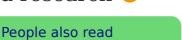
PubMed Google Scholar

21. Östlin P, Schrecker T, Sadana R, Bonnefoy J, Gilson L, Hertzman C, et al.. Priorities for research on equity and health: towards an equity-focused health research agenda. PLoS Med. 2011; 8: e1001115.10.3402/gha.v6i0.19650.

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