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The Healthy Cities approach — reflections on a framework for improving global health

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The roots of the Healthy Cities concept may be traced back to 1844, when the Health of Towns Association was formed in the United Kingdom to deliberate on Edwin Chadwick’s reports about poor living conditions in towns and cities. The revival of those concerns in the “new public health” era dates from the Healthy Toronto 2000 convention in 1984 and, subsequently, the enthusiasm of the World Health Organization (WHO) Regional Office for Europe to translate its principles into a tangible global programme of action to promote health. WHO defines a Healthy City as “one that is continually developing those public policies and creating those physical and social environments which enable its people to mutually support each other in carrying out all functions of life and achieving their full potential”.

This philosophy seeks to enhance the holistic well-being of people who live and work in cities, based on four criteria: (a) explicit political commitment at the highest levels to the principles and strategies of a Healthy Cities project; (b) establishment of new organizational structures to manage change; (c) commitment to developing a shared vision for the city, with a healthy plan and work on specific themes; and (d) investment in formal and informal networking and cooperation. The concept is founded on the moral and political beliefs that inequalities in social conditions (and therefore health) are unjustified and that their reduction should be an overriding public health objective. While the entry point of the Healthy Cities approach is health, its underlying rationale has always been based on a model of good urban governance, which includes broad political commitment, intersectoral planning, citywide partnerships, community participation, and monitoring and evaluation.

The Healthy Cities principles draw on various work on the social determinants of health, notably studies initiated by Thomas McKeown. However, its proponents rightly diverged from McKeown’s overemphasis on the “invisible hand” of improved nutrition at the expense of various types of important social interventions, such as improvements in living and working conditions, public education, medical science, democratic governance, public health practices, and human rights. The International Healthy Cities Foundation partners are drawn from leaders in these sectors.

The strategy also takes account of the increasing recognition of the complex effects of urbanization on health. Rapidly growing cities in Africa, Asia, and the Americas constitute the majority of the 300 cities with over one million inhabitants. While poor people in urban cities operate under the most life-threatening living and working conditions, their high concentration nevertheless provides opportunities for improving health: economies of proximity greatly reduce unit costs for provision of piped water, sewers, rubbish collection, immunization services, schools and public transport. Recent United Nations statistics estimate that, by 2007, more than half of the world’s population will live in urban areas. Thus, Healthy Cities may be viewed as a set of public health strategies of potential benefit to more than half the people in the world.

Now in its second decade, a number of important achievements have been attributed to this approach. For example, California’s Healthy Cities and Communities programme, which began in 1987, has contributed significantly to improving the state’s health profile through a multilayered strategy that includes technical assistance, funding, promotion, coordination and collaboration, systems reform, programme evaluation, and recognition.

However, the effectiveness of Healthy Cities has largely been confined to industrialized countries, for a number of reasons. First, although its proponents acknowledge that conventional public health projects for the prevention or treatment of diseases did not adequately take account of health risks such as poverty, urban violence and terrorism, the predominantly functionalist health promotion framework within which the Healthy Cities approach operates makes it less likely to focus effectively on these underpinnings of “unhealthy” cities. Indeed, a paradox associated with the health promotion framework is that it inadvertently aggravates health inequality, because its messages are more likely to be put into practice by affluent communities.

Second, the twin crises of capitalist globalization — ecological unsustainability and social class polarization — have had a particularly deleterious effect on the health of city-dwellers in developing countries, including poor communities with hitherto exemplary health systems such as Kerala. Powerful economic and political interests in many countries, rich and poor, have displaced a welfare ideology with a neoliberal ideology, making it even more difficult to deal with those activities that make poor city-dwellers unhealthy. Because poverty is more extreme among the urban population in developing countries, the impact of globalization in poor communities is more adverse. As class polarization extends to rich countries, similar trends develop. In today’s Toronto, for example, homelessness is at levels not seen since the 1930s and food bank usage has doubled since 1990, at a time when the Canadian economy continues a strong recovery.

Third, rising levels of urban violence and terrorism have made many cities unhealthy. In Brazil, for example, the benefits...
of a dramatic fall of 30% in infant mortality between 1990 and 2000 were completely wiped out by violence-related mortality. Both violence and terrorism promote insecurity, ethnic profiling, loss of community ethos and loss of civil liberties, factors that adversely impact on Healthy Cities activities. Indeed, travel warnings may be used as a proxy indicator of the global effectiveness of the Healthy Cities approach — most of the cities described as “unfit to live in” by the USA and the European Union are countries with high levels of violence and terrorist activity.

Fourth, the supportive environments that made the Healthy Cities approach effective in most industrialized countries — socioeconomic development, environmental sanitation, health education and primary health care — are skeletal in poor communities. Most consultants visiting poor countries such as Cambodia have consequently tended to focus on “soft” Healthy Cities components, for example Healthy Markets and Healthy Schools, and even these very limited activities are hardly sustainable.

Fifth, in spite of its rhetoric, the strategy’s research base remains poorly developed, partly because such research is conceptually and practically difficult and partly because the Healthy Cities ethos has been characterized more by action than by reflection. The objectives are often expressed in idealistic terms: “ownership” and “empowerment” are not easily measured, and changes sought in local cultures and community attitudes may take generations to achieve. Even then, it would be difficult to disentangle the effects of other confounders from the results contributed by the Healthy Cities approach.

Sixth, although Healthy Cities is formulated as a global movement, its innovations are difficult to generalize, since they are meant to respond to local needs and priorities and these vary widely between poor and rich communities.

Finally, health promotion per se has played, generally, a secondary role in most of the collaborative achievements of the Healthy Cities approach. As Edwin Chadwick bitterly discovered after being denied another term as head of England’s Health Board, “The parliamentary agents are our sworn enemies, because we have reduced expenses, and consequently their fees, within reasonable limits. The civil engineers also because we have selected able men, who have carried into effect new principles, and at less salary. The College of Physicians, and all its dependencies, because of our independent action and singular success in dealing with the cholera, when we have proved that many a Poor Law medical officer knew more than all the flash and fashionable doctors of London. All the Boards of Guardians, for we exposed their selfishness, their cruelty, their reluctance to meet and relieve the suffering poor, in the days of epidemic. Then come the water companies, whom we laid bare and devised a more efficient method of supply ....” By overemphasizing the impact of this concept on global health improvement, its custodians appear as “guilty” as the medical profession, accused by McKeown of attributing major advances in health in the past two centuries to advanced medical care.

The Healthy Cities approach is unlikely, in its present form, to remain a truly effective global health promotion tool this decade, in view of the considerations highlighted above. Given that the health promotion framework may inadvertently promote health inequality, it is important to develop more structurally appropriate frameworks for such global movements. Such alternative frameworks should prompt workers to advocate actively against policies that may undermine their programmes (e.g. erosion of civil liberties under the guise of fighting terrorism).

Furthermore, as the approach metamorphosed from a few European cities into a global instrument, the very nature of the — admittedly impressive — problems being tackled (e.g. social development and equity) made formal evaluation difficult. Nevertheless, some aspects, such as risks and protective factors, can, and should, be measured and the results published. As Trevor Hancock and Iona Kickbusch, the architects of Healthy Cities, reiterate, the challenge we face in cities is no longer how to understand the links between health, environment and the economy, nor to understand threats to sustainability; the challenge is to put into practice what we already know. Practical, evidence-based, context-specific interventions that can improve the health of the majority of the world’s city-dwellers are more important than public health shibboleths.

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Advancing the state of the world’s newborns

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Despite declines in global mortality rates in infants and children under five years of age in recent decades, neonatal mortality has remained relatively static. Consequently, approximately two-thirds of deaths in infants and over one-third of deaths in under-five-year-olds now occur in the first 28 days of life (i.e., the neonatal period). There are an estimated four million neonatal deaths per year, with a further four million babies dying during the last trimester of pregnancy. The risk of dying in the first month of life is 10–15-fold higher than the risk during the post-neonatal period of infancy (2–12 months) and approximately 30-fold greater than during young childhood (13–60 months). The first week of life is a particularly high-risk period when more than two-thirds of neonatal deaths occur. In order to sustain gains in child survival and achieve Millennium Development Goals, as highlighted during the UN Special Session Summit for Children, held in New York in May 2002, a new focus is needed on improving neonatal health, particularly outcomes in the late fetal and neonatal periods.

A disparity of up to 30-fold exists between the countries with the highest and lowest neonatal mortality rates (NMRs), the highest rates being in sub-Saharan Africa. Although the regional average NMR is lower in Asia, this area accounts for over 60% of the estimated global total. Strategies for advancing neonatal health must prioritize these regions with the worst neonatal health outcomes.

Globally, most births and neonatal deaths take place in the home, often outside the formal health care system. The useful model of delays in access to maternal care, involving elements of recognition, decision-making, transport, care and receiving quality care, is also valuable in understanding the underlying causes of fetal and neonatal deaths. Nevertheless, little is known about traditional household practices in the intrapartum and postnatal periods, illness recognition, and the sociocultural and logistic factors that affect care-seeking by families for their newborn infants.

Causes and determinants of neonatal mortality

Neonatal deaths are largely the result of infections (32%), birth asphyxia and injuries (29%), and complications of prematurity (24%), according to 2001 estimates by WHO. The health of the mother during pregnancy, delivery and the postpartum period is intimately linked with the health of her newborn, emphasizing the need to integrate maternal and neonatal health care strategies. Low birth weight (LBW), an indicator associated with the social status of women, has profound implications for neonatal health and survival and is an underlying factor in 40–80% or more of neonatal deaths. This is of particular importance in South-East Asia where LBW rates are the highest, reaching nearly one-third.

A substantial proportion of fetal and neonatal morbidity and mortality in developing countries could be prevented through wider implementation of proven, affordable interventions during pregnancy, delivery and the early postpartum and neonatal periods. In order to move into action, policy-makers, programme managers and other stakeholders must embrace neonatal health as essential for future improvements in child survival, but also as a means to improve maternal health. This involves a recognition that neonatal health care is affordable and that routine life-saving interventions do not necessarily require highly technical hospital units or specialists. Neonatal mortality can be reduced even when socioeconomic development is lacking. Indeed, improved neonatal and infant survival may encourage development and demographic transition as, historically, fertility rates fall as infant mortality is reduced.

Conceptual framework for maternal and neonatal care

In order to achieve effective, affordable and sustainable reductions in fetal and neonatal mortality, neonatal health programmes must be placed within a broader context of improving maternal and child health, integrated within safe motherhood and child survival programmes. This is the current policy of WHO and UNICEF through the Integrated Management of Pregnancy and Childbirth (IMPC) and the Integrated Management of Childhood Illness (IMCI) for neonates more than one week old. The new Partnership for Safe Motherhood and Newborn Health will also bring together many agencies and organizations to improve outcomes for women and neonates.

Save the Children Federation–US has developed a conceptual framework for household and community neonatal and maternal care that focuses attention on five pathways: (a) routine maternal and neonatal care and services of good quality; (b) response to maternal danger signs; (c) response to the non-breathing newborn; (d) care for the low-birth-weight infant; and (e) response to neonatal danger signs, particularly those signalling infection. The framework emphasizes that the health of the mother and the newborn are inextricably linked; thus, intervention strategies must encompass the health of the mother and antenatal, intrapartum and immediate and routine postpartum maternal and newborn care, so as to improve perinatal and neonatal health outcomes. Ultimately, in order for gains in maternal health to be realized, mothers must be empowered and equipped to recognize, seek and obtain appropriate care for themselves and their babies. Similarly, health care providers at all levels must be better educated on essential newborn care, and closer links between the home, health centre and regional hospital must be forged.

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Closing the gap in neonatal survival

To advance neonatal health and survival globally, the greatest need is to devise better ways to deliver proven interventions as a package in a cost-effective, sustainable manner. Investment is needed in programmes and research that respond to priority needs and provide practical and sustainable solutions that will benefit the poor (see Table 1). In order to bridge the gap between research and implementation, it is imperative that researchers communicate closely from the outset with government officials, stakeholders, programme managers and others who will be responsible for managing scarce resources and translating research findings into effective health care programmes.

Identifying and overcoming delays in receiving quality care is fundamental to intervention strategies for the neonate. Formative research is required to understand local beliefs and practices, particularly in the home, so that effective behaviour-change strategies and implementation plans can be developed that take account of the perceived needs of users as well as the resources necessary for the care providers.

Although many interventions are known to improve neonatal health and survival, there is a lack of community-based effectiveness trials of promising packages of maternal and neonatal care. There is a particular gap in health care delivery during the immediate postpartum period when most neonatal and maternal deaths occur. Some small-scale successes exist, but it is necessary to illustrate how effective interventions can be provided on a large scale. Thus, the components of the intervention packages, the health workers capable of providing the needed services, and the health care infrastructure (e.g., training, supervision, equipment and facilities) necessary to support the interventions must be based on local neonatal health problems and capacity and must have the full support of the local community.

The current lack of data on the magnitude and causes of fetal and neonatal morbidity and mortality is a limiting factor in advocacy and programmatic planning for neonatal health. Thus, strengthening of locally owned information systems, including the recording of births and deaths, and application of information to decision-making at all levels are required to guide resource allocation. As programmes incorporate neonatal care, the impact on fetal and neonatal mortality and rates of low birth weight must be monitored to enable policy-makers and programme planners to use existing resources more effectively. Validated instruments (for example, verbal autopsy) are needed to ascertain causes of fetal and neonatal deaths more accurately in the community and to assess the contribution of sociocultural and health system factors.

Although we already know a great deal about how to care for neonates, further research is required, particularly regarding the prevention, recognition and management of birth asphyxia and serious neonatal infections in the community and the development and evaluation of packages of care for the low-birth-weight baby at the community level.

Conclusions

With wider recognition of the importance of neonatal health globally, and the increasing prioritization of resources to focus on the inequities in health care for mothers and their newborns, unprecedented potential to improve neonatal as well as maternal health and survival now exists. In order to achieve lasting and measurable gains, however, four key ingredients are needed: (a) serious political commitment to maternal and neonatal health and survival by political leaders and decision-makers; (b) strong focus on the neonate, integrated into the framework of existing safe motherhood and child survival strategies, and with close dialogue among researchers, programme managers, policy-makers and donors; (c) realistic and efficient allocation of resources for maternal and neonatal health, with stress on community-based care and enhancing the capacities of mothers to care for their newborns; and (d) effective implementation with clearly defined supervision, monitoring and evaluation mechanisms. In this context, programmes will emphasize proven preventive and curative measures such as maternal tetanus toxoid immunization, skilled health care at delivery, early and exclusive breastfeeding, hygiene, warmth, and care-seeking for danger signs, within the local cultural constructs and health care delivery systems. Meanwhile, research will define better ways of doing what has already been proved to work and advance the state-of-the-art in preventive and curative neonatal care through greater understanding of local customs and practice, removing barriers to care-seeking and introducing innovative preventive and curative interventions that are effective, affordable and sustainable within the local community.

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Table 1. Factors influencing priorities in newborn health

<table>
<thead>
<tr>
<th>Factor</th>
<th>Priority in programme action</th>
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<tr>
<td>Information about maternal and neonatal health</td>
<td>Improved coverage and quality of information regarding magnitude and causes of maternal, fetal and neonatal deaths, especially at the community level</td>
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<tr>
<td>Prevalent causes of death</td>
<td>Infections, birth asphyxia, complications of prematurity and low birth weight</td>
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<tr>
<td>Time of intervention</td>
<td>The first week, and especially the first 24 hours of life, when most neonatal deaths occur (delivery and early postpartum care)</td>
</tr>
<tr>
<td>Place of intervention</td>
<td>Africa (highest NMRs) and South-East Asia (highest number of neonatal deaths)</td>
</tr>
<tr>
<td>Place in the health care delivery system</td>
<td>The home and community, where most deaths occur</td>
</tr>
<tr>
<td>Delays in accessing quality care</td>
<td>Promotion of improved understanding of reasons for delays, recognition of danger signs, more rapid decision-making and transportation, and provision of high-quality, affordable, acceptable medical care for mother and baby</td>
</tr>
<tr>
<td>Choice of interventions</td>
<td>Focus on: (a) interventions of benefit to both mother and baby (e.g. tetanus toxoid immunization, targeted maternal nutritional supplementation, treatment of maternal infections, skilled health care at delivery, postpartum visitation) and (b) interventions targeted towards prevention and management of major risk factors for causes of neonatal deaths</td>
</tr>
<tr>
<td>Process of implementation</td>
<td>Participatory communication between communities, programme managers, researchers and policy-makers; locally owned programmes</td>
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