Obstacles to health in the Arab world

Enror—Health indicators in the Arab world show stark differences between individual countries. But aggregate figures provide only a narrow perspective. They do not show variation according to socioeconomic group, sex, education, or political affiliation. The scarcity of databases available to collect such detailed data reflects the fact that inadequate political support exists for rigorous intersectoral research of relevance for health in the region. National development agendas and public policies are focused on economic development. Funding for health tends largely to be directed at providing curative medical services designed to emulate Western health systems.

Patriarchal and religious principles embedded in the state structures of many Arab countries—such as Lebanon, Egypt, and Saudi Arabia—are a further obstacle to unpicking and taking action to tackle poor health and health inequality in the region. The conservative values of the Arab world render public debates about religion, politics, and sexuality unacceptable and place social stigma around drug users, commercial sex workers, and mentally ill people. As a result, health data on such groups are limited and unreliable, which presents an obstacle for the development of appropriate services.

Although national cultural, social, and economic structures are to blame for patchy and inequitable public health services, particularly in Egypt, Morocco, and Lebanon, regional and global forces influence health provision too. The Arab-Israeli conflict, the wars in Iraq, the Gulf, Lebanon, Yemen, and Sudan have brought about hunger, epidemics, displacement, and death. These wars have been tacitly bolstered by multinational corporations, which have sold billions of dollars worth of weapons to Arab countries in conflict. Governments’ expenditures on defence in some Arab countries are far greater than their expenditure on health. International political action (and inaction), notably in Iraq and Lebanon, has played a part too. Similarly, global decisions have led to fluctuations of funding for the United Nations Relief and Works Agency (UNRWA), the leading health and social service provider to Palestinian refugees.

Multilateral and bilateral aid has also influenced public policy making in many economies of the Arab world, owing to demands for reform and reduced public sector spending. These have had a disproportionate effect on low income groups. Although several Arab countries have banned tobacco advertisements, tobacco companies continue to reach Arab homes through satellite television stations, another powerful regional and global agent. Tobacco related mortality is expected to reach 0.5 million deaths in the Arab world by 2020.

Further investigation of the ways that powerful regional and global agents affect health in the Arab world and beyond is crucial for a clearer perspective on obstacles to health. Only then will the possibility of advocacy for lasting health see the light.

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Reforming Egypt's health system: is it that simple?

Editor—Egypt has witnessed several health gains during the past decades. Life expectancy at birth is increasing, 95% of the population has access to primary health care within 5 km, and immunisation coverage is about 98%. However, the quality of public health services is questionable and about 60% of expenditure on health is out of the patients' pockets. According to the World Health Organization, Egypt spends about 5.8% of its gross domestic product on health. This is lower than the countries in the Organisation for Economic Co-operation and Development (OECD)—which Egypt wants to join—which spend around 8% of their gross domestic product on health. In 2000 the African countries, including Egypt, committed themselves to increasing health expenditure to 15% of gross domestic product by 2015 (i.e., the Declaration). To date, Egypt's steps to increase budgetary allocation for health are not clear. Egypt's current government is examining ways to improve health services, including the expansion of social health insurance, and the question is how best to do this.

It is important to identify the main health and system challenges. Egypt, like many other countries in the region, is facing several new health challenges. Vulnerability to global health threats such as bird flu is increasing. The HIV infection rate in the Middle East and North Africa is rising rapidly. Two countries bordering Egypt (Libya and Sudan) have two of the highest rates of new infections in the region. The burden of non-communicable diseases in Egypt is increasing. Ironically, Egypt also faces challenges resulting from the improvements in its health system. The World Bank estimates that developing countries might face 2% annual increases in healthcare expenditure needs from the ageing of their populations.

The main challenge for the health system is the lack of capacity of the different stakeholders, which is mainly, but not exclusively, linked to financial problems. With low wages, poor training in managerial skills, and few incentives for change, it is difficult for the Ministry of Health to create change. As the private sector is an important stakeholder in health it is mandatory to create a more competitive environment. The World Bank has identified principles for sound public financing for health that involve raising revenue to provide basic essential services and pooling health risks equitably. However, issues such as taxation policy, budgetary allocation, and formalising the parallel economy make these remedies more difficult to realise.
Road traffic deaths in the Middle East: call for action

Editor—One of the leading causes of death and disability in the Middle East is road traffic injuries. The World Health Organization estimates that by 2020 road traffic injuries will be the third leading cause of disability adjusted years of life lost worldwide.1 Our analysis of the International Road Federation’s world road statistics found that five countries in the Middle East are among the highest road traffic death rates in the world.2

The table shows that the United Arab Emirates, Oman, Saudi Arabia, Qatar, and Kuwait all had more than 18 deaths per 100 000 people in 2000.

Despite the seriousness of this problem, the full impact—morbidity, mortality, and disability—of road traffic injury in the Middle East is inadequately measured.

Death rates from road traffic injuries for countries in the Middle East by income³

<table>
<thead>
<tr>
<th>Income and country</th>
<th>Deaths per 100 000 people</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td></td>
</tr>
<tr>
<td>Yemen</td>
<td>8</td>
</tr>
<tr>
<td>Lower middle⁴</td>
<td></td>
</tr>
<tr>
<td>Egypt</td>
<td>13</td>
</tr>
<tr>
<td>Iraq</td>
<td>8</td>
</tr>
<tr>
<td>Jordan</td>
<td>15</td>
</tr>
<tr>
<td>Syria</td>
<td>10</td>
</tr>
<tr>
<td>Upper middle⁵</td>
<td></td>
</tr>
<tr>
<td>Oman</td>
<td>25</td>
</tr>
<tr>
<td>High</td>
<td></td>
</tr>
<tr>
<td>Bahrain</td>
<td>12</td>
</tr>
<tr>
<td>Israel</td>
<td>8</td>
</tr>
<tr>
<td>Kuwait</td>
<td>18</td>
</tr>
<tr>
<td>United Arab Emirates</td>
<td>21</td>
</tr>
</tbody>
</table>

³International Road Federation found only 4 deaths per 100 000 people in Iran but two independent studies found 23-24 deaths per 100 000 in Iran.1 Turkey was omitted because World Bank gives rate 50% higher than International Road Federation.


Cancer prevention and control in Eastern Mediterranean region

Editor—In the Eastern Mediterranean region (population 492 million) cancer is the fourth most common killer with about half a million new cases a year.¹ Lung, liver, and bladder cancer are commonest among men and breast cancer among women,¹ the highest rates among Jewish women.³

World Health Organization modelling shows that over the next 15 years the increase in cancer incidence in the region will outstrip that in any other region (figure).¹

Reliable data on cancer incidence through national, population based registries are available in only seven of the 22 countries, and few governments have implemented prevention and control strategies. This failure is less to do with scant resources than a lack of political will and support for the development of appropriate services. Only minimal regulation is in place to protect workers from carcinogens, promote tobacco control, and expand hepatitis B programmes.¹ Public pressure for these services is low, and patients still tend to present late, with advanced disease. Well off and well educated people seek treatment abroad.

Awareness and concern are, however, growing in all sectors of society and among health professionals about the link between environmental damage from protracted military conflicts and rising cancer rates. Oil pollution in Kuwait and Lebanon, chemical contamination in Iraq and Sudan, and depleted uranium in Iraq, Afghanistan, and Somalia have fuelled this concern.

Governments must take public concerns about cancer seriously. The collection and recording of sound data are essential, and cancer registries must align with international standards. Funding for national plans for cancer prevention and control must be made available. WHO’s STEPwise programme should act as a guiding principle for developing these plans (www.who.int/chp/steps/en/).

Patient and public input is important in shaping new services. Supraregional services may be needed to ensure access to some forms of specialist care—for example, bone marrow transplants, liver units. Some collaborative work is already under way in the Gulf Cooperation Council countries. Reorientation of services away from their current heavy emphasis on private sector provision of secondary care services to one that provides equitable primary care and preventative medicine services is crucial. Without such reorientation, cancer statistics will continue to rise, and the burden of what in a third of cases is a preventable disease will steadily increase.

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Cause of death of Sri Lankan migrant workers employed in the Middle East

Editor—With the introduction of the free trade policy, avenues have been opened for blue collar workers to obtain employment in the Middle East. The required funds to get to the destinations are often obtained through loans, workers mortgaging their few possessions in anticipation of improving their living standards. From time to time, however, the harassment inflicted on these workers, often leading to disability and death, is reported in the print and the electronic media.1 2

A descriptive study was carried out to determine the cause of death as indicated on the death certificates received with the remains of Middle East migrant workers between 1 January and 31 May 2002 at the Health Office of the International Airport, Sri Lanka.

Eighty six (67%) dead people arrived from the Middle East during this time, their ages ranging from 20 to 70; 47 were men.

Of the 86 deaths, 42 were related to traumatic injuries. These included 17 road traffic accidents, 4 falls, 2 work related injuries, 15 intentional self harm, 2 assaults (reported as criminal deaths), and 4 of undetermined intent. Thirty one were due to medical causes. Three deaths were without death certificates, and for 10 the cause of death indicated was non-specific. Only the former three deaths were subjected to post-mortem examinations in Sri Lanka.

Eighteen of the 47 men (38%) were workers mortgaging their few possessions to get to the Middle East. The required funds to get to the destinations are often obtained through loans, workers mortgaging their few possessions in anticipation of improving their living standards. From time to time, however, the harassment inflicted on these workers, often leading to disability and death, is reported in the print and the electronic media.1 2

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much higher air concentrations than allowable exposure limits for adults, not accounting for dermal exposure in a population that uses solvents to degrease contaminated hands. Compared with schoolchildren and working children not exposed to solvents, working children exposed to solvents performed worse on most neuropsychological and neurobehavioural tests. Whether these effects are reversible, permanent, or will worsen with further exposure is unknown, as is the long term effect on children’s employment and productivity.

The magnitude of hazards to which working children, including those in Arab countries, are exposed must not be underestimated and may increase with the rising political and economic unrest in the region and the violent conflicts in Lebanon, Iraq, and Palestine. We recommend that more studies on child labour be conducted, especially cohort studies on long term health effects and studies on girls.

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Competing interests: None declared.


Eastern Mediterranean Association of Medical Editors

Editor—The Eastern Mediterranean region has more than 400 medical journals in different languages, some of which appear in prestigious international indices. The region’s Index Medicus database provides a current awareness service to what has been published in the region (www.emro.who.int/ HIS/VHSL/Inarch.htm).

In 2003 the WHO regional office for the Eastern Mediterranean hosted in Cairo the first regional conference on medical journals in the area that it serves, one outcome of which was the formation by a group of editors of the Eastern Mediterranean Association of Medical Editors (EMAME). At two subsequent conferences in Riyadh (2004) and Shiraz (2006), EMAME has sought ways to establish more widespread cooperation among editors and to improve the quality of biomedical publication in the region.

EMAME’s mission is to support and promote medical journalism in the Eastern Mediterranean region by fostering networking, education, discussion, and exchange of information and knowledge. Editors and previous editors of peer reviewed medical journals in the region are eligible for membership. Apart from regional conferences, members are also connected through an active listserve. EMAME is closely affiliated with the WHO regional office for the Eastern Mediterranean, which hosts the EMAME website (www.emro.who.int/EMAME) and listserve. The association has five committees dealing with editorship, publishing ethics, education and training, evidence based medicine, and research. The next regional conference will be held in Bahrain in 2008.

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Competing interests: None declared.

1 Habibzadeh F. A snapshot of medical journals from the Middle East. Lancet 2006;367:797.

Lessons learnt from the front line in Israel

Editor—Over the past six years my pager has accompanied me everywhere. The beep all too often signals another terrorist attack. Together with my team, I have managed 45 terrorist related mass casualty events and cared for over 3000 victims. Although the work is difficult, we try to make the most of our experience. Thus Israeli doctors have written guidelines on management of terror related emergencies, published lessons learnt, initiated research projects related to terror related injuries, carried out workshops, and given lectures all over the world.

But terror is not merely of professional interest. Every time my pager announces a terrorist attack I wonder whether any of my family has been affected. I often have to work for many hours before I get a message confirming everyone is safe. In the emergency department it is not uncommon to find a captured terrorist in one bed and his victims in the three adjacent gurneys. Who is the team meant to attend to first? Of course, these decisions are dictated solely by the medical priorities, although we sometimes get complaints from the families.

We hope that others will learn from our mistakes. These include, for example, depending solely on the mobile telephone system (which often collapses because of overload in an emergency), establishing a public information centre too close to the emergency department, and underestimating the severe mental and physical stress on all staff (we now offer psychological counseling and external stress relief activities).

The most important lesson has been that the best investment is in good quality preparation for terror related emergencies. We have a detailed manual for each type of potential threat—conventional, chemical, biological, radiological, or cyber. Staff are instructed both in the care of various terror related injuries and in the administrative aspects of these emergencies. Relevant staff are given treatment cards and checklists for non-conventional injuries. Good team work and robust methods of communications, which are both crucial, are emphasised. Minimal structural modifications (such as establishing oxygen pipes in improvised admission areas) and maintaining adequate supplies are essential.

We constantly strive for quicker, more efficient ways to save life and limb. Both the operation and coordination of the emergency plans are regularly re-evaluated and tested by full scale drills with simulated casualties. Our hospital, as well as all others in Israel, goes through this process twice a year, under the supervision of the Department of Emergency Services of the Ministry of Health. Although in this kind of chaos peace never makes perfect, it does allow us to be as effective as circumstances allow.

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