Counting the dead is essential for health

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WHO News

Q: Why do we need a Bulletin theme issue on mortality?
A: This is a good opportunity to show WHO’s leading role in an area that has long been the subject of discussion, to take stock of current knowledge and progress, and to facilitate the debate. Historically WHO has collected cause-of-death data from Member States where available. This is still a core function of WHO. But things are changing. WHO no longer has a monopoly in health statistics. Multiple players are out there and WHO should make an effort to work with the best available people to provide the best available evidence.

Q: WHO data, particularly mortality statistics, are some of the most used health information. Who is interested and why?
A: Developing countries are struggling with multiple demands for data to monitor progress towards the Millennium Development Goals. Countries and global initiatives need these data to receive and assess performance-based funding. New tools and methods for collecting mortality data are now available and more resources are being spent on gathering health information and on monitoring and evaluating health-care programmes. There is a great opportunity to make substantial progress in mortality and cause-of-death estimates, as we have not seen major progress in the number of registered deaths over the decade.

Q: What is WHO aiming for in terms of increasing the proportion of deaths registered around the world? There is a huge disparity in coverage between sub-Saharan Africa with less than 10% and in 65 high-to-middle-income countries which have 90% and above?
A: We aim to derive meaningful cause-of-death information for all countries. Scaling up coverage from 10% to 90% is not easy in countries with large populations, difficult economic circumstances or political instability. It will take decades. Of course we should be ambitious but we have to be realistic.

Q: Sometimes governments just don’t want to admit, for example, how many HIV/AIDS deaths they have. What do you do when you come under pressure?
A: Indeed the discrepancy between estimates and official figures from countries has been an issue. On the one hand, we have to respect data provided by countries as they are the primary producers and users of the figures. On the other hand, we are responsible for the provision of the best available evidence for public health. That’s a dilemma we face all the time. It’s not easy. We do not always trust the data from routine health information systems and there are various ways to check them and correct the known bias.

Q: How does WHO avoid duplication in mortality data, so that the tuberculosis and HIV/AIDS departments do not count the same death twice?
A: WHO’s mortality reporting is based on the ICD-10 (International statistical classification of diseases and related health problems) rules. These state that there can be only one single underlying cause of death. In the case of co-infection of HIV and TB, the underlying cause of death is HIV resulting in TB and so will be classified under HIV. WHO technical departments provide these estimates, but sometimes it is

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Q: Why are there some conflicting mortality data between diverse UN agencies?
A: Technically, the major source of discrepancy in estimates stems from either differences in data sources or estimation methods, or both. The best solution is to put everything on the table and let the best available experts peer-review the data and methods independently, which in fact we did several times last year. Harmonization is gradually happening, for example, of under-five mortality estimates among four agencies, WHO, UNICEF, the World Bank and the UN Population Division.

Q: Why doesn’t WHO explain in more detail how it compiles global mortality statistics?
A: The WHO estimation process has sometimes been criticized as a “black box”, but we have made substantial progress in making this more transparent. Examples include the new guidelines on producing WHO estimates including an independent expert group such as the Child Health Epidemiology Reference Group. We are working with technical departments to facilitate the access to relevant health statistics.

Q: Why are WHO mortality data not always published with a margin of error?
A: In reality, uncertainty is not so attractive for advocacy. I agree we have to be more explicit about the quality of point estimates and the uncertainty surrounding them, as users are becoming more serious about the quality of estimates. We have already been publishing uncertainty ranges in various publications including the World Health Report (WHR), although the current practice within WHO varies substantially. Another good example is the UNAIDS estimate for HIV/AIDS.

Q: What will the Ellison Institute do? What will its brief be once it is launched?
A: As far as we know, the institute plans to facilitate the access to relevant health information. There will be very good people involved and I expect an exciting new breakthrough in analytical work.

Q: Why hasn’t verbal autopsy been validated in developed countries? Is it ethical to ask developing countries to use a less accurate system of data collection?
A: Developed countries have vital registration with a death certificate system in place and do not need verbal autopsy. Verbal autopsy is not ideal, but in countries where there is no death registration, it is necessary for assigning cause of death in broader categories, such as injuries, maternal causes, communicable diseases, etc. It may be useful for a limited set of causes with distinctive features, but not to assess detailed causes. It may not be ethical to use a sub-optimal method, but it is more unethical to “stumble around in the dark”.

Q: In Thailand, people in rural areas must report a death within seven days. In the Islamic Republic of Iran, causes of death are taken from cemetery records. How can WHO help improve these systems?
A: WHO has a primary role in setting standards and supporting countries to enhance the quality of cause-of-death statistics. The WHO Family of International Classification collaboration is working on such issues. The Health Metrics Network is another great opportunity to strengthen health information systems in countries.

Q: Why haven’t countries ensured doctors are properly trained in writing death certificates?
A: Assigning cause of death strongly depends on doctors’ prior knowledge about the cause-of-death structure. Take the death of a 20-year-old male with a history of severe weight loss. If we ask doctors in the Czech Republic and in Zambia about his cause of death, the answer would be different. Even within countries, practices in assigning cause of death vary. It also depends on the knowledge on how to complete death certificates, and select the underlying cause of death. Before the introduction of ICD-10, heart failure was among the leading causes of death in Japan. I hate to admit it, but years ago when I was a doctor there, I often assigned “heart failure” as an underlying cause of death on death certificates simply because I did not know the rule well enough. Doctors need to be made more aware of the need to fill in death certificates properly.

Q: Why are death data from developed countries not always reliable?
A: In developed countries where noncommunicable disease is the biggest killer, co-morbidity is frequent and thus it is generally difficult to assign a single underlying cause of death. Diagnoses have improved with advanced medical technology. But there can still be a discrepancy. The second issue, which is more important, is inappropriate death certificates. Health professionals are not necessarily aware that the information they put on death certificates will be classified and analysed later, therefore they sometimes do not feel it necessary to provide all the details around the circumstances of the death. Now there is a training package with guidance on how to certify a death based on good practice for European countries.