Public health leadership education in North America

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Abstract: Public health leadership is one of the priority disciplines public health professionals need to learn well if they are to deal with demanding public health issues effectively and efficiently. This article looks at the trends in public health leadership education by reviewing the literature and using the Internet to explore the public health leadership programs offered in various parts of the world, and suggests several principles to be taken into account for the development of public health leadership education in the future. A variety of educational programs in public health leadership are classified into several types in terms of their formats: degree programs offered by schools of public health or other programs of public health, those offered in partnership with public health agencies, and so on. All of these programs have important implications for the overall effectiveness of public health leadership education. For public health leadership education to be effective, the partnership between academia and public health agencies is vitally important. Programs should provide opportunities to learn on the basis of practical public health experience, a commitment to life-long learning, flexibility in design, and recognition of the diverse needs of individuals and communities. The application of distance learning methods is one of the options to make this possible.

Keywords: public health leadership, public health professionals, school of public health

Introduction

The number of public health threats occurring around the world, such as terrorism and pandemics, has increased the work of the public health workforce so that it is now more visible to the general public. At the same time, these threats have accentuated the need for trained public health professionals. The development of the public health workforce, especially the training of public health leaders, is one of the pressing issues in strengthening the public health systems of countries all over the world. Through review of the literature and programs offered through a variety of institutions, we will discuss how public health leadership education (mainly in North America) is currently offered, and provide some perspectives on how such training may be enhanced.

The need for leadership in the public health arena

Very recently, swine influenza has become a public health threat all over the world. The virus, thought to originate from Mexico, first spread within a short period of time around North America. The press reported information about the cases caused by this virus almost every day. Images in which many people with masks on their faces were walking in the streets of Mexico were seen on television news. Medical officers
from such organizations as the Centre for Disease Control and Prevention (CDC) or the World Health Organization announced the seriousness of the situation on television.

People throughout the world paid attention to this public health crisis. For these kinds of public health problems, the public health role is quite clear to the general public. The political aspects in the decision making process would seem comparatively small in these kinds of public health activities. However, the front line professionals in public health have to quickly and effectively tackle what human beings might never experience, not only to keep the infection from spreading and to reduce the casualties, but also to maintain stability in people’s lives, taking economic impact on the entire society into account.

The public health professionals, including public health officers, take initiative at the front lines to deal with public health issues. As the public health issues we are facing have broadened and become more complicated to impact the whole world, such as the influenza pandemic, public health professionals have had more opportunities to experience a variety of challenges posed by our increasingly complex society. Are public health professionals such as nurses and physicians prepared to deal with such broad and difficult issues? Are they all experienced? Are they all qualified as leaders, both in public health content knowledge and in leadership skills? They may have learned a broad range of health disciplines in which new scientific knowledge is always expanding in academia. However, many are focused on clinical aspects such as diagnosis or treatment at the individual level, but they have little chance to learn about effective management and leadership to achieve the goals of overall health at the macro level, such as community, country, and world. As new medical school graduates, public health physicians are often tested by being placed in difficult positions without the sufficient experience, knowledge, and skill-sets required to be effective leaders and managers. Roemer et al suggest that there are eight requirements for effective leadership in public health: knowledge of public health issues and programs; basic education and experience; organizational and administrative support; training in management; practical experience in management; adequate physical resources; favorable moral or spiritual environment; and personality.¹ We find it interesting that training and practical experience in management are included among the eight requirements, but leadership training and practical experience aren’t even mentioned. Perhaps confusion between what management and leadership are really each about has led to the deficit in effective leadership that has affected so many sectors of our society. How can public health professionals learn about these eight factors, and about what effective leaders really do in practice?

The trends in the public health arena

Regardless of their professional backgrounds, public health professionals usually obtain knowledge and skills through their daily activities, that is, through on the job training. Numerous public health issues confront them every day. They usually deal with them over a long period of time such as a few months or a year or more. At other times, they are required to make urgent decision when pressing crises occur such as natural disaster, outbreak of infection, and so on. They never lack lessons in the front lines of public health.

On the other hand, post-secondary education, for example Master of Public Health (MPH) programs, are one of the popular options, offering opportunities to learn the public health discipline throughout the world, especially in the United States (US). However, even in the US there are not sufficient public health professionals who have some formal public health training such as graduate degree programs.² There are several possible reasons for this. First, since there is no common credential requirement for all public health professionals like a medical license, many people have entered careers in public health even though they may have no health background, which does emphasize that public health is an interdisciplinary field. Before entering the public health arena, those who are not health professionals do tend to seek study at some degree program regarding public health, whereas health professionals such as nurses and physicians may directly enter the field of public health. Second, public health professionals are so busy that they have found it difficult to study as full-time graduate students to earn an MPH because it takes at least one year to complete for full-time students. The lack of common credential requirement for all public health professionals also might be a disincentive to study public health in some degree programs unless the organizations for which they work give them the chance to continue their careers along with their studies. Finally, they may merely feel that there is no need or no attractive educational pathway to earn an academic degree. For some seasoned public health professionals, a master’s degree may not necessarily impart the expected knowledge and skills to deal with the difficult tasks they face in real settings, and thus does not attract them. There appears to be some mismatch between the educational supply to, and the demand by, public health professionals relative to both curriculum content and teaching approaches.
Since the 1990s, a number of public health organizations and academic institutions in the US have discussed and attempted to develop public health core competencies for public health professionals to create alignment that addresses this mismatch. The Council on Linkages Between Academia and Public Health Practice developed core competencies for public health professionals: analytic/assessment skills; policy development/program planning skills; communication skills; cultural competency skills; community dimensions of practice skills; public health sciences skills; financial planning and management skills; and leadership and systems thinking skills. The Association of Schools of Public Health (ASPH) endorsed the core competencies developed by the Council on Linkages and developed the core competencies for the graduates of an MPH. The ASPH presented seven interdisciplinary/cross-cutting competencies: communication and informatics; diversity and culture; leadership; professionalism; program planning; systems thinking; and public health biology. These supplement the conventionally accepted five competencies: biostatistics; epidemiology; environmental health science; health policy and management; and social and behavioral sciences. The Public Health Agency of Canada developed a report entitled “Core competencies for public health in Canada” in 2007. In this report, the core competencies were organized under seven categories: public health sciences; assessment and analysis; policy and program planning, implementation and evaluation; partnerships, collaboration and advocacy; diversity and inclusiveness; communication; and leadership. Both the competencies developed by the ASPH and by the Public Health Agency of Canada are designed for the graduate level public health professionals, and both reports have common aims which will serve as a guide for academic institutions that develop curriculum content of master’s level programs. According to the Public Health Foundation report, 91 percent of schools and programs in the US applied the core competencies into their curricula. Such a competency based approach is found also in the United Kingdom (UK) and Australia.

Public health leadership education outside Canada

Along with the above mentioned trends of competency development regarding public health practice, competency in public health leadership was developed by the National Public Health Leadership Development Network in the US. In response to the Institute of Medicine’s (IOM) report “The future of public health” published in 1988, the schools in the US have started trials of rebuilding the curricula in varied manners. A variety of graduate educational programs and other training programs in public health leadership are classified into several types in terms of the formats below.

First, the degree programs offered by schools of public health or programs of public health include certificate, master (MPH), doctor of public health (DrPH) and so on. Some degree programs focus on public health leadership, but others just offer courses on public health leadership, as one of the electives. Of forty schools of public health accredited by the Council on Education for Public Health (CEPH) (except two schools outside the US), seven schools of public health offer the degree programs on public health leadership (two certificate, three master, three doctor) and twenty five schools provide courses focused on public health leadership, as of June 2009. The executive master’s program is also one of the degree programs aimed at the development of leadership among mid-career professionals. These programs are offered by a single school or department, or with alliances between a school of public health and other schools such as schools of business.

Second, a partnership between public health agencies and academia forms a certain program focused on public health leadership. In the US, the CDC/University of California Public Health Leadership Institute was initiated in 1991, funded by the CDC. In 2000, this was taken over by the University of North Carolina at Chapel Hill School of Global Public Health. Through the completion of the institute program, participants could enhance collaborative leadership and build knowledge and problem-solving networks among themselves. In 1998, the UK National Public Health leadership program, which originally launched as part of the Chief Medical Officer’s project, was created for the purpose of enforcing public health functions in the National Health Service (NHS), designed for all people engaged in the public health agenda. In this program, participants learn through four elements (three residential modules of between two and four days, a final one-day session) for nine months. The first focuses on the development of understanding leadership skills. This module helps participants to have self-awareness and confidence regarding their leadership skills by using materials such as Myers Briggs Type Indicator (MBTI), other personality and leadership coding instruments and so on. In the second module, participants have the opportunity to improve their abilities to lead change by using learning materials as well, based on the needs assessed during the previous session. The third module gives the opportunity to test theories and skills obtained during the previous modules, working in teams of up to eight participants. The last is the
presentation in which participants demonstrate how they put
the skills and knowledge obtained during this program into
practice. This program is nationally available.

Public health leadership education in Canada
In response to a report by the Public Health Agency of
Canada, which suggests strengthening the Canadian public
health system with schools of public health, a number of
schools of public health have been introduced in the past
few years including the University of Alberta, the University
of British Columbia, the University of Saskatchewan, and
the University of Toronto. Among these new schools of
public health, the University of Alberta offers a master’s
degree focused on public health leadership. Although
the students seeking this program mainly consist of physici-
ans who participate in the community medicine residency
program or the occupational medicine residency program,
the students attending the classes of public health leadership
come from a variety of backgrounds, such as nurses, health
administrators, and so on. The University of British Columbia
School of Population and Public Health provides a course
on public health leadership which is one of the commonly
required courses to obtain an MPH degree. In addition to
schools of public health educational programs, the University
of Regina Centre for Continuing Education established
the Saskatchewan Institute of Health Leadership which is
financially supported by the government of Saskatchewan
in partnership with the College of Physicians and Surgeons
of Saskatchewan, the Saskatchewan College of Pharmacists,
the Saskatchewan Registered Nurses’ Association, and the
Saskatchewan Society of Physicians Executives. This pro-
gram is aimed at all levels within the healthcare system. The
six-month certificate program offered by the Saskatchewan
Institute of Health Leadership includes a week-long retreat in
which lectures, workshops and group projects take place.

Principles of education in public health leadership
A number of training programs develop the skills and
knowledge of public health leadership throughout the world.
However, the competency based curricula are not well
matched to the needs of students, especially in the areas
of health policy, management, and leadership programs. Developing the curricula for degree programs is a chal-

lenging task because the public health workforce is not only
diverse, but also ill-defined so far. In particular, the need
to focus on competency development makes curriculum and
program design much more challenging. All these programs
have important implications for the factors impacting the
effectiveness of public health leadership education. First,
academia and public health agencies should create partners-
ships. It is clear, but must be kept in mind, that leaders are
never developed only in the academic arena. People become
leaders through their efforts, by taking correct steps in the real
world. Academia assists them in this process. The teaching
methods are under development and should be evaluated
in the future in terms of their outcomes. Second, programs
must encourage life-long learning. Leaders are life-long
learners. While public health professionals must make
efforts to become life-long learners, academia and the public
health practice sector should provide sustained training
opportunities in order to help them by responding to their
career stages. Third, programs must pay attention to the needs
of individuals and communities. Whether the schools can
accept a variety of students ranging from entry level to senior
level depends on the funding and staff. Leadership educa-
tion should be offered not only to the entry-level students
to prepare for their future education, but also to senior level
people who need to develop leadership skills immediately. In
the US, the leadership training for health professions students
is being developed. Fourth, flexibility should be developed.
The curriculum should not be rigid but flexible so that the pro-
gram can meet varied students’ needs. To make this system
effective, the program coordinator must discuss career goals
with all students and guide them on which courses are suitable
to achieve their goals. Last, programs must develop effective
distance learning capabilities. Since internet technology has
advanced, the distance learning format has become popular
as a teaching approach all over the world. This gives those
who have difficulties getting to a school appropriate access
to learning opportunities and experience. This would serve to
meet a variety of international needs, such as providing public
health leadership training opportunities in countries where it
would not otherwise be available and so permitting health-
care professionals to pursue their training part-time while
still working full-time. This would reduce scarce manpower
evels during their public health training and encourage health
professionals to remain in their home countries rather than
leaving for their education and then potentially not returning.
These same phenomena would also pertain to underserved
regions in North America.

Conclusion
Some countries have challenged this problem of developing
their future public health leaders and are making progress.
In Canada, this is beginning to happen in very positive ways and the emerging schools of public health can play an important role in the development of future public health leaders, especially when partnerships are developed with provincial and federal public health agencies.

Disclosures
The authors report no conflicts of interest in this work.

References