Interprofessional Education of Health Professionals and One Health

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Members:
Schools: 50
Programs: 43

ASPPH
ASSOCIATION OF
SCHOOLS & PROGRAMS
OF PUBLIC HEALTH

University of Minnesota
Driven to Discover™
Menu

• What is IPE? Challenge?
• IPE Drivers?
• Guiding documents?
• What does veterinary medicine bring to the table?
• Where to in the future?
Transdisciplinary Health

- The complexity of public health and social problems is becoming more challenging. Understanding and designing solutions for these problems requires perspectives from multiple disciplines and fields as well as cross-disciplinary research and practice teams.

Edward F. Lawlor, PhD, Professor & Dean, Washington University, St Louis
Health in the 21st Century

- Complex, increasing interdependence
  - The One Health Model, for example
- Moving from disease to health
- Health is more complicated than disease
- Systems “stove-piped,” fragmented, inadequate
- Training health professionals for the past
The One Health Hypothesis

- Holistic, systems-based approach to complex, messy problems
- Trans-disciplinarity and team building skills
- Teams need leadership
- Assumptions:
  - Old way not adequate
  - Greater efficacy
  - Greater efficiency
  - Cheaper (or better fund raising model)
- Are we adequately testing?

Courtesy: Prof. Dominic Travis, UMN College of Veterinary Medicine
Health in the 21st Century

- Collaborative, Connective, Creative
  - Interdisciplinary & Trans-disciplinary
  - Inter-professional & Trans-professional
- Cross-sector, Cross-system
- Civic: Local, Regional, National
- Global
- Digital
Guiding Documents

- WHO Report *Framework*, 2010
- Contributions of Veterinary Medicine
- IPEC Expert Panel: *Core Competencies*, 2011
WHO, 1988

• Findings

It is a policy of the World Health Organization to foster a type of educational programme for health personnel that will enable them to respond to the needs of the populations they serve as part of efforts to achieve the goal of health for all through primary health care.
WHO, 2010

Health Professions Networks
Nursing & Midwifery
Human Resources for Health

Framework for Action on
Interprofessional Education
& Collaborative Practice
What is IPE?

- “When students from two or more professions learn about, from and with each other to enable effective collaboration and improve health outcomes…”

WHO, 2010
What is IPE?

- Interprofessional education is a necessary step in preparing a “collaborative practice-ready” health workforce that is better prepared to respond to local health needs.

WHO, 2010
What is IPE?

• Collaborative practice happens when multiple health workers from different professional backgrounds work together with patients, families, caregivers, and communities to deliver the highest quality of care.

WHO, 2010
Emerging challenges to health systems
Educating Health Professionals

- 1910: Science-based curriculum
- Mid-20th Century: Problem-based curriculum
- 21st Century: Curriculum that is system-based, with core health professional competencies, global, team-based, mobilize knowledge, critical reasoning

Source: Lancet Commission Report, 2010
Educating Health Professionals

**Instructional reforms**
1. Adopt a competency based curriculum
2. Promote interprofessional and transprofessional education
3. Exploit the power of IT for learning
4. Harness global resources and adapt locally
5. Strengthen educational resources
6. Promote new professionalism
7. Establish joint planning mechanisms

**Institutional reforms**
8. Expand from academic centers to academic systems
9. Link through networks, alliances, and consortia
10. Nurture a culture of critical inquiry

Source: Lancet Commission Report, 2010
Veterinary Medicine’s contribution?

• A few resources…
“…all health care professionals of the 21st century must become prepared to innovate, coordinate, and monitor services for all populations within the healthcare system in which they work and interact with crucial services outside the system. Their patients are not only individuals or families but also entire communities. Veterinarians are currently playing key roles as vital members of this diverse interprofessional health care team…”
Hendrix, et al, 2005

- Vital Roles
  - Food Safety
  - Environmental Health/Global Medicine
  - Zoonotic Disease
  - Human-Animal Bond
Veterinary Medicine’s contribution?

• A few resources…
Kinnison, et al (2011)

- London, UK: Royal Veterinary College IPE
  - “Talking Walls”
    - Facilitator-led VM and VN role identification, discussion on the veterinary medical team; understanding, respect, reducing misconceptions
  - Emergency Case Role-Play
    - Teamwork, communication, canine resuscitation; performance observed, evaluated
  - Student attitudes improved, but did not last
Veterinary Medicine’s contribution?

• A few resources…
  – AAVMC Strategic Plan: Action Agenda for Academic Veterinary Medicine, 2013-14
Veterinary Medicine’s contribution?

• AAVMC Strategic Plan - Vision Statement
• To promote and protect the health and welfare of animals, people and the environment by generating new knowledge and preparing the high-quality veterinary workforce needed to meet continually changing societal demands for veterinary expertise.
Interprofessional Education Collaborative
Connecting health professions for better care

Founded 2009
IPEC Collaborative, 2011

Competency Domain 1: Values/Ethics for Interprofessional Practice
Competency Domain 2: Roles/Responsibilities
Competency Domain 3: Interprofessional Communication
Competency Domain 4: Teams and Teamwork

Source: IPEC Report, 2011
UMN Approach to IPE

Engaging students:
- Dentistry
- Medicine
- Nursing
- Pharmacy
- Public Health
- Veterinary Medicine

nexusipe.org
UMN Approach to IPE

Course: Foundations in Interprofessional Communication and Collaboration (online, in-class)

Incoming health professions students meet in interprofessional groups with a facilitator

The course emphasizes face-to-face interaction and incorporates online resources to explore the concepts of interprofessional education.

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UMN Approach to IPE

Building a Toolbox of Skills...

Middle of academic career…course and activity options build knowledge and develop community wellness concepts...

Examples include interprofessional experiences such as the CLARION case competition, Immunization Tour, and co-curricular Interprofessional Diabetes Experience course.

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UMN Approach to IPE

**Capstone:** Engagement with community-based partners to support and develop authentic interprofessional clinical experiences.

IPEC competencies cemented in real-world environments via affiliation agreements with health organizations. Teamwork is emphasized in practice environments or interprofessional clinical experiences.

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Public Health Practice Competencies, Capacities

• **Leadership**
  – Collaboration/Team-building/Interprofessional

• **Systems Thinking/Design/Analysis**
  – Strategic Planning/Program Planning/Project Management

• **Communication**
  – Systems, Diversity, Culture, Communities

• **Informatics**
  – Planning, Metrics, Outcomes (aimed at populations)
Advances and the Future

• IPE has so far emphasized team-work mainly in the clinical arena
• It has been less certain about how health professionals in public health and veterinary health and medicine “fit”
• More education needed role of veterinary and public health professionals
Advances and the Future

• More innovative thinking on next generation systems that holistically address human and animal health in the context of communities and populations…the world of 2030
Hot Health Issues on the Way to 2030

- Impact of Climate Change
- Resource Utilization and Environmental Impact (Water, Energy, Land, Air)
- Food Security, Safety, Nutrition
- Urbanization in Africa, India, China, South America
- Education (especially women, girls)
- Aging Planet & Burden of Chronic Disease, including Mental Health, Alzheimer’s, Dementia
- Infectious Disease, Emerging Zoonotic New ID’s
- Global & National Disparities in Health Outcomes
- The Health Work Force
Thank You!

To your health!

Sláinte mhaith!

אשֶׁר וּבְרִיאוּת - osher uvree'ut
fee saḥitkum - في صحتكم!

A votre sante!

Salute! Skål!