Building Leadership and Management Capacity in Health

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Mission

To strengthen global public health capacity by supporting well-qualified professionals in field epidemiology through training and service opportunities.
TEPHINET consists of member programs

- More than 43 programs participate in the Network
Field Epidemiology Training Program – FETP- Definition

- These are programs that build capacity in health service agencies by providing training in field epidemiology and other public health competencies in the context of health service delivery systems.
The Training Program model is based on two years of service in Public Health.

- Training through service
  - at least 60% of the training must consist of a field training apprenticeship, taking place in a host country or region, with practical application of epidemiologic methods in the field

- 2 years of full time work (mentored)
  - Most programs are affiliated with the Ministry of Health (55%). Also with have programs in PHI (17.5%), University (12.5%), Other (15%).
  - Graduates and trainees of the programs are certified by the institutions in which their programs function (with the ministry of health, with an independent research institute, or with an academic institution)
Field-based Training Programs in Applied Epidemiology and Public Health Practice

- Provide essential public health services
- Conduct outbreak investigations
- Develop and evaluate public health programs and surveillance systems
- Work on projects pertinent to health needs
- Are a source of practical training for young professionals, associated with high-priority public health problems
Individual Program Members

Current # of trainees and graduates:

- Trainees: 8057
- Graduates: 5774

Current # of individuals enrolled in an FETP: 928

*self-reported, includes the EIS program
% of Programs with this Disciplinary Background this Year

- Physicians: 83%
- Lab specialists: 52%
- Epidemiologists: 50%
- Veterinarian: 48%
- Other: 48%
- Pharmacists: 22%
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FETP Functional support systems
Central America FETPs

Guatemala-Honduras-El Salvador-Nicaragua-Costa Rica-Dominican Republic

Coordinating Office for Global Health
80% Field, 20% Classroom (modules)
FETP: Field Epidemiology Training Program
EEA: Specialization in Applied Epidemiology
CEAL: Applied Epidemiology at Community Level
Strategy for building Competencies

Competencies
- Epidemiologic Methods
- Biostatistics
- PH Surveillance
- Laboratory and Biosafety
- Communication in PH
- Computer Technology
- Management and Leadership
- Prevention Efectiveness
- Monitoring and Teaching
- Preparation for emergency and response
- Epidemiology of disease and injuries

CLASSROOM

Each module
a complete Package
- Presentations
- Exercises
- Facilitator guides
- Daily Quizes
- Homework
- Readings
- Final exams
- Field products

DISTANCE LEARNING
FETP: Enabling working environment
Program Mission

To strengthen public health practice in Canada through practical training in applied epidemiology

A human-resource capacity in public health
2009 and 2010 placement sites

2009-2011
3 – Vancouver
1 – Guelph
2 – Ottawa
1 – Montréal
1 – Longueuil
1 – Halifax

2010-2012
1 – Vancouver
2 – Toronto
1 – Peel (ON)
1 – Ottawa
1 – Quebec City
1 – Montréal
1 – Fredericton
**Canadian Public Health Service (CPHS)**

- A program to train and place qualified public health staff in locations across Canada to address federal as well as provincial, territorial or local public health priorities

- CPHS Public Health Officers (PHOs) are placed with:
  - municipal, regional, provincial and territorial public-health jurisdictions
  - laboratories
  - agencies or non-governmental organisations with a public health mandate to gain front-line public health experience

- PHOs rotate through placements every two years – but are permanent staff

- PHO’s represent a wide range of expertise:
  - Vets, nurses, environmental health officers, public health economists, policy analysts........
The Spanish experience for Training of Human Resources for Epidemiological Surveillance
Total: 41 since 1994
57 studies of evaluation of surveillance systems
EXAMPLES OF INTERVENTIONS WITH A HIGH IMPACT IN PUBLIC HEALTH

- Intercommunity outbreak of salmonellosis in infants due to powdered milk
- Hospital Outbreak of multirresistant Tuberculosis (M. bovis)
- Outbreak of mumps in children vaccinated with Rubini strain
- Outbreak of brucellosis in a slaughterhouse of Zaragoza
- Community outbreak of legionellosis in Alcoy
- Outbreak of neurologic disease in infants due to star anis used as a carminative.
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FETP: Appropriate competences
DEVELOPMENT OF CHINA FETP NETWORK
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<tr>
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<th>CORE COMPETENCIES</th>
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<tbody>
<tr>
<td>1</td>
<td>Conduct rapid investigation and response to public health problems</td>
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<td>2</td>
<td>Response to natural disasters and to prevent and control disease outbreaks in such settings</td>
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<td>3</td>
<td>Analyze a surveillance database or other health information system</td>
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<td>4</td>
<td>Evaluate an existing public health surveillance system</td>
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<td>5</td>
<td>To advocate for public health actions through communications with the community, the media and decision-makers</td>
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<td>6</td>
<td>Conduct an epidemiological study e.g., community survey, cohort study, case control study, intervention study</td>
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<td>7</td>
<td>Manage programs including assessment, planning, implementation and evaluation</td>
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<td>8</td>
<td>Write reports as scientific paper for peer-reviewed journals, and present at a national or international scientific conference</td>
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FETP: Adequate number of managers
EPIDEMIC INTELLIGENCE PROGRAM
Program

- Since EIP Malaysia is integrated into the health services –
  - Graduates function as the main player during outbreaks including H1N1,
  - Head of the Operations Rooms
  - Hospital Director
  - Head of Department of Institutes
  - State Epidemiologist
  - District Health Officer
ZIMBABWE FETP - 1993-2009
In 1992, Rockefeller Foundation funded the Public Health Schools Without Walls (PHSWOW)

The first PHSWOW was created in Zimbabwe in 1993 with 4 trainees

Goal: produce public health practitioners to assume leadership roles within the public health system

Number of graduates = 146
**SUCCESES AND CHALLENGES**

- **Successes**
  - More than 80% of graduates in influential public health positions within Zimbabwe
  - High demand for training
  - Several abstracts accepted at regional/international conf

- **Challenges**
  - High attrition rates of field supervisors & lecturers
  - Logistics - transport, fuel, allowances for trainees
  - Communication - telephones, e-mail - Tephinet IT support
  - Prolonged economic recession
  - Sustainable funding
  - Sourcing of textbooks - Tephinet assistance
FETP Improved health services and sector goals.
International Health Regulations (IHR)

- Core capacity for surveillance and response: Minimum national requirements
Revised IHR requirements for countries at central level on a 24 hour basis:

- To respond to prevent international spread
- To provide support to the lower levels (including lab)
- To provide a direct operational link with senior health and other officials
- To provide direct liaison with key government ministries
- To provide rapid communication links with key areas
- To establish, operate and maintain a national public health emergency response plan
Communications and Collaborations

Welcome to TEPHINET

Created in 1997, Training Programs in Epidemiology and Public Health Interventions Network (TEPHINET) is a professional network of field epidemiology training programs (FETPs) located in 43 countries around the world. TEPHINET aims to strengthen international public health capacity by training field epidemiologists through an applied apprenticeship program. Trainees of FETPs master a set of core competencies that are vital to the practice of public health, while providing a valuable public health service to their countries and regions.

Announcements

59th Annual EIS Conference April 19-23, 2010 Atlanta, GA. Learn More
International Night April 21, 2010

TEPHINET
6th Global Scientific Conference
CAPE TOWN • SOUTH AFRICA
13 - 17 DECEMBER 2010
Value for TEPHINET

- Support the activities of the FETP Programs.

- Opportunities of collaboration in surveillance, management and other areas

- New scenarios to develop trainees activities and support the graduates.

- Collaboration
tephinet.org