

# The WHO Global Salm Surv & PulseNet International

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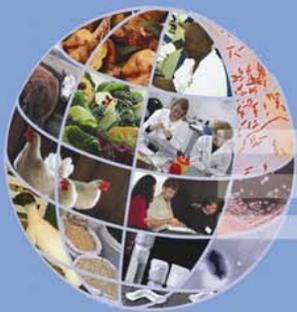


**WHO Global  
Salm-Surv**

*Building Capacity for the  
Surveillance and Detection of Foodborne  
and other infectious Enteric Diseases*

[www.who.int/salmsurv](http://www.who.int/salmsurv)

*MEPI Cairo Food Coordination Roundtable Nov. 7-8, 2007*



# What is WHO Global Salm-Surv?

- A network of institutions and individuals committed to enhancing the capacity of national ministries of health and national reference laboratories to detect, respond and prevent foodborne and other infectious, enteric diseases



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# What does WHO Global Salm-Surv do?

- Promote integrated, laboratory-based surveillance and outbreak detection and response
- Foster inter-sectoral collaboration and communication among microbiologists and epidemiologists in human health, veterinary, and food-related disciplines



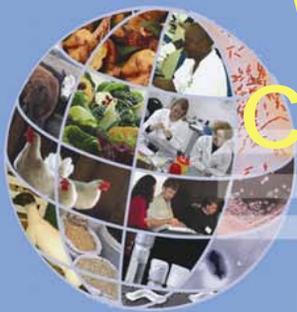
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# WHO Global Salm-Surv Steering Committee



WHO Global  
Salm-Surv

Strengthening Capacity for the  
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# Major Activities



- International Training Courses
- External Quality Assurance System (EQAS)
- Country Databank (Global *Salmonella* Databank)
- Electronic Discussion Group (Global Listserv)
- Focused Regional and National Projects



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# Location of Training Sites

47 Training courses conducted since 2000





# WHO Global Salm-Surv Training the Middle East

## Five courses or workshops conducted:

### -Level I Course for microbiologists

(23 participants, 10 countries) Location: Greece

### -Level II Course for microbiologists

(22 participants, 10 countries) Location: Jordan

### -pre Level III Course for epidemiologists

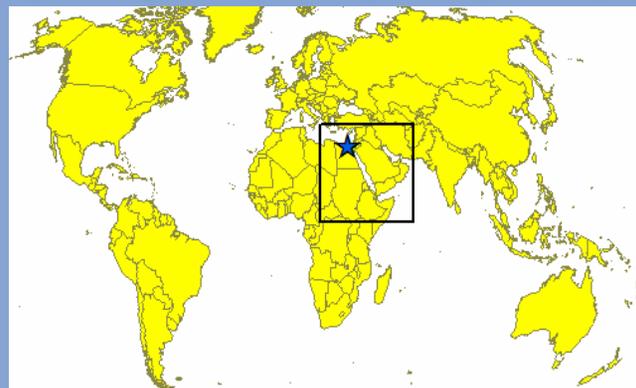
(12 participants, 10 countries) Location: Egypt

### -Level III Course for microbiologists and epidemiologists

(26 participants, 10 countries) Location: Egypt

### -Advanced Workshop I for microbiologists and epidemiologists

(57 participants from 15 countries)



**Countries involved:** Egypt, Jordan, Kuwait, Lebanon,  
Syrian Arab Republic, Saudi Arabia, Oman, Yemen, Sudan,  
West Bank and Gaza Strip.

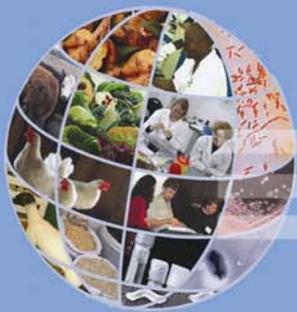


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# WHO Global Salm-Surv Advanced

## Workshop in Cairo, Egypt





# PulseNet International...



## A Family of Networks...

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# Why Should We Go International With PulseNet?

- We live in a global community
- Foods produced on one continent may be consumed and cause disease in another - a global issue
- Need an effective global early warning system
- Global networking to utilize scarce public health resources effectively
- Respond to other emerging infectious diseases or acts of bioterrorism



# The PulseNet international *Vision*

Worldwide regional networks utilizing standardized identification and isolate characterization methods and sharing information in real-time to provide early warning on foodborne disease outbreaks, emerging foodborne infections, and acts of food bioterrorism



# PulseNet International Objectives (1)

To facilitate early recognition of foodborne disease clusters that may represent common source outbreaks through molecular surveillance of infections at the global level by:

- Partnering with reference laboratories throughout the world
- Building capacity for molecular surveillance of foodborne infections



# PulseNet International Objectives (2)

- To collaborate on the development, validation and implementation of internationally standardized subtyping methods to be used in the network
- To perform collaborative studies on the geographic distribution and spread of different clones of foodborne pathogens



# Data Sharing

- Each PulseNet network is independent of the other networks
- Data is shared with other networks during outbreak investigations or in projects agreed upon between the networks
- A participant that supplies data to PulseNet retain the ownership of the data, i.e. data cannot be shared outside the network without the written consent of the owner



# PulseNet International Governance

## The Steering Committee

- Consists of network coordinators and is chaired by CDC
- Provides guidance and makes recommendations about the strategic development of the network
- Holds conference calls on a quarterly basis and convenes annually face-face



# PulseNet International Steering Committee 2007



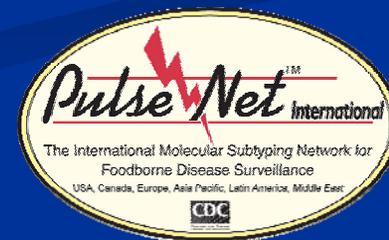


- **Established in December 2006**
- **8 countries represented at the initial consultation at WHO EMRO in Cairo**
- **Interim network coordinator:**
  - **Dr. Suleiman Al-Busaidy, Central Public Health Laboratory in Oman**
- **Expanding on membership in 2007**
- **Second Strategic Planning Consultation & Regional PFGE Training Workshop to be held in December 2007**

# PulseNet International

## New initiatives

- Consolidation of PulseNet Middle East
  - *Consultation and PFGE workshop in December 2007 in Cairo, Egypt*
- New liaison: ICLS (International Council for Life Sciences)
- Explore PulseNet Eurasia and PulseNet Africa
- Formalize collaboration with WHO
- Continue working with WHO-GSS



# PULSENET INTERNATIONAL

2007

**PulseNet  
Canada**



**PulseNet  
Europe**



**PulseNet  
USA**



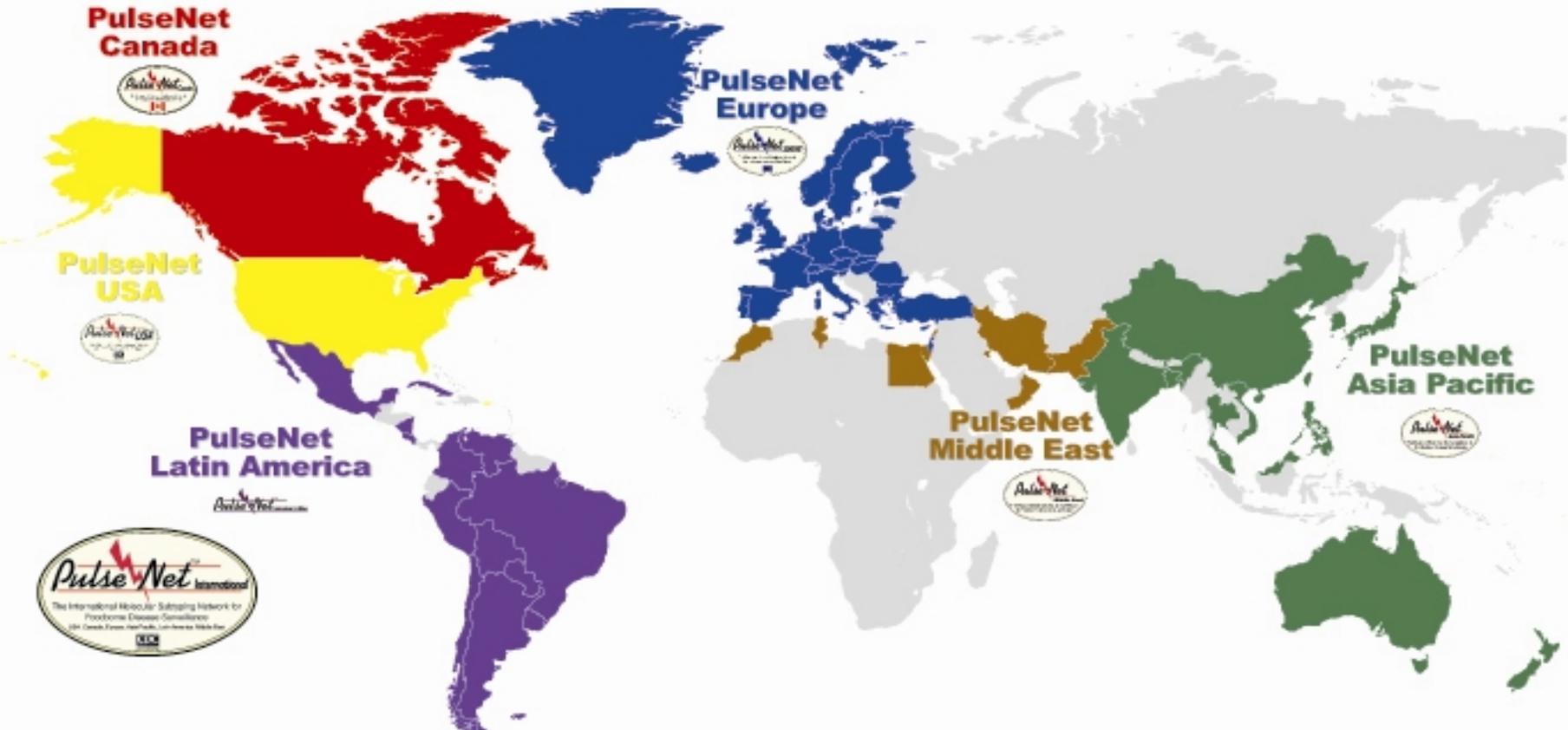
**PulseNet  
Latin America**



**PulseNet  
Middle East**



**PulseNet  
Asia Pacific**





# Thank You!

## Disclaimer:

*"The findings and conclusions in this presentation have not been formally disseminated by the Centers for Disease Control and Prevention and should not be construed to represent any agency determination or policy."*

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# PulseNet costs

- **PFGE & image acquisition equipment**
  - US\$ 30- 40,000
- **Consumables**
  - US\$ 10 -20/ isolate
- **Image analysis software**  
BioNumerics or GelCompar II
  - US\$ 7,500- 15,000