WHO Collaborating Centres

Generating evidence-based information for Global Health Security

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An early model of collaboration

 1949 Second World Health Assembly: "research in the field of health is best advanced by assisting, coordinating and making use of the activities of existing institutions"

Many prestigious research institutes are working as WHO
 Collaborating centers and contributing in securing global health

security

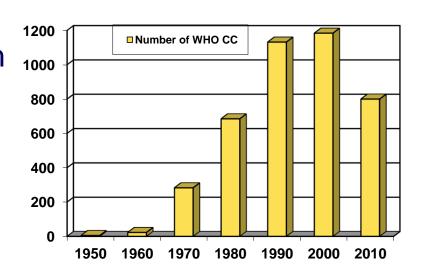






One mechanism: four definitions

- 783 institutions in 80 Member States supporting WHO's programmes with activities that have been specially planned with and tailored for WHO;
- Largest in-kind resource mobilization mechanism of WHO;
- A formal mechanism for collaboration with institutions;
- An international collaborative network.







Influenza at the human-animal interface

WHO Collaborating Centers for influenza

OIE Reference Laboratory for animal influenza

Victorian Infectious Diseases Reference Laboratory	Melbourne	Australia	Australian Centre for Disease Preparedness (CSIRO)	Geelong	Australia
China Center for Disease Prevention and Control	Beijing	China	Laboratório Federal de Defesa Agropecuária em Sao Paulo	Campinas	Brazil
Guangdong Provincial Center for Disease Prevention			National Centre for Foreign Animal Disease	Winnipeg	Canada
and Control	Guangzhou	China	National Avian Influenza Reference Laboratory	Harbin	China
The University of Hongkong	Hongkong	China	Friedrich Loeffler Institute	Insel Riems	Germany
	Musashi-		National Institute of High Security Animal Diseases	Bhopal	India
National Institute of Infectious Diseases	Muarayama	Japan	Istituto Zooprofilattico Sperimentale delle Venezie	Legnaro	Italy
Hokaido University	Sapporo	Japan	Hokkaido University	Sapporo	Japan
The Francis Crick Institute	London	UK	Animal and Plant Quarantine Agency	Gimcheon	Korea
Imperial College London	London	UK	National Ref. Lab. for Avian Influenza and Newcastle Disease	Vladimir	Russia
Centers for Disease Control and Prevention (CDC)	Atlanta	USA	Animal and Plant Health Agency+	Weybridge	UK
St. Jude Children's Research Hospital, University of			National Veterinary Services Laboratories	Ames	USA
Tenessee	Memphis	USA	Istituto Zooprofilattico Sperimentale della Lombardia	Brescia	Italy
			National Institute of Animal Health	Tsukuba	Japan

WHO

Global Influenza
Surveillance and
Response System
(FluID and FluNet)



FAO/OIE

OFFLU network animal influenza laboratories



One Health Influenza Surveillance System



WHO Collaborating Centers for zoonoses, AMR and food safety



Study finds coronavirus-related bat viruses in Thailand

A team led by investigators in Thailand and Singapore has tracked down SARS-CoV-2-related coronaviruses in bats from a cave in Thailand, highlighting the broad distribution and genetic diversity of potential progenitor www.modernhealthcare.com

ASIA

- Hokkaido University Sapporo (Zoonoses Control)
- Chulalongkorn University Bangkok (Viral Zoonoses)
- Queen Saovabha Memorial Institute Bangkok (Rabies)
- NIMHANS Bangalore (Rabies diagnostics)
- NCDC Delhi (Rabies epidemiology)
- RMRC Port Blair (Leptospirosis)
- Khon Kaen University (Ophisthorchiasis)
- Xinjiang Medical University (Echinococcosis)

EUROPE

- Pasteur Institute Paris (Rabies)
- Friedrich-Loeffler-Institut Insel Riems (Rabies)
- Animal and Plant Health Agency UK (Rabies)
- University of Veterinary Medicine Hannover
 (One Health)
- University of Copenhagen, Vet Faculty (Parasitic zoonoses)
 - Technical University of Denmark (AMR and genomics)
- University of Utrecht, Vet Faculty (AMR and One Health)
- Universidad de Valencia (Fascioliasis)
- Stavropol Research Anti-plague Institute (Plague)

AMERICA

- Ottawa Laboratory Fallowfield, CFIA (Rabies)
- North Carolina State University, Vet Faculty (AMR)
- Secretaria de Estado da Saude de Sao Paulo (Rabies)
- Prefeitura de Sao Paulo, Brazil (Urban zoonoses control)
- Fundação Oswaldo Cruz, Brazil (Leptospirosis)
- Administración Nacional de Laboratorios e Institutos de Salud (Arbovirus and Hemorrhagic Fevers)
- Centers for Disease Control and Prevention (CDC) - Rabies, Bacterial vector-borne diseases, Viral haemorrhagic fever, Biosafety and biosecurity



Regional Forum of Collaborating/ Reference Centres on Emerging Infectious Diseases and Zoonoses, Sapporo (2011)



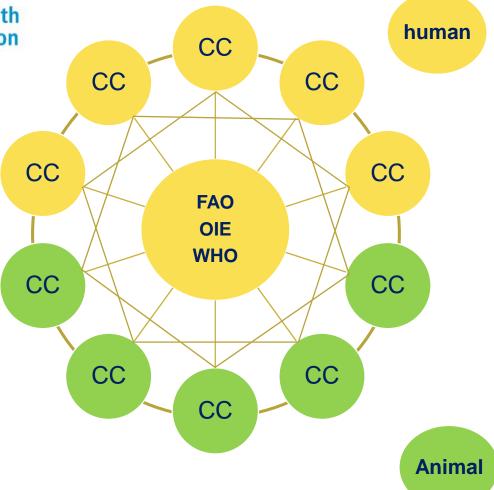














Global Foodborne Infection Network (GFN): Multidisciplinary platform for capacity building

A network of professionals working in veterinary, food and public health disciplines committed to enhancing capacity of countries to conduct integrated surveillance of foodborne and other enteric infections





GFN Steering Committee













Public Health Agency of Canada Agence de la santé





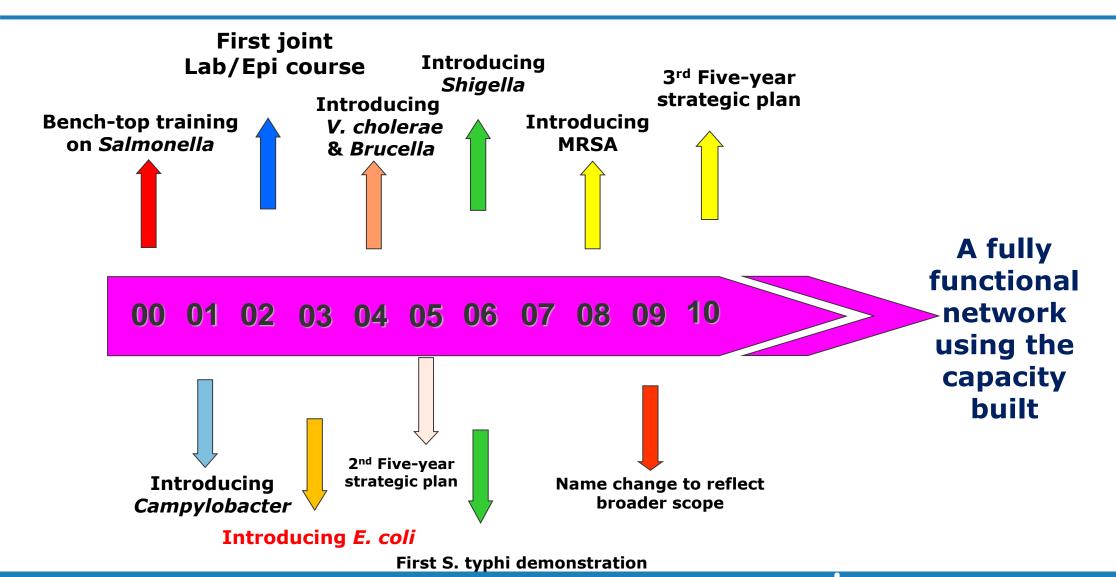








Evolution of WHO GSS ► **GFN**Single pathogen programme ► multi-issue platform





(Inter)national Training Courses

Microbiology training

- Global/Region-specific pathogens
 (e.g. Salmonella, Campylobacter, E. coli, V. cholerae, S. Typhi, Brucella, Shigella, Listeria, C. botulinum)
- Quality assurance
- Biosafety
- Antimicrobial Susceptibility Testing

Epidemiology training

- Outbreak detection and response
- Evaluation of surveillance systems
- Study design
- Source attribution
- Burden of disease





- Risk assessment
- Country Plans of Action
- Advocacy and communication
- Information sharing networks





FAO/OIE/WHO commitment for One Health



