



Strengthening laboratory capacity in response to emerging pandemic threats

FAO, OIE and WHO working together

FAO / OIE / WHO approach to laboratory strengthening

Laboratory capacity strengthening is more than training in diagnostic methods and providing supplies and equipment

A structured and holistic strengthening program is needed for national laboratories to address laboratory management under a quality system conforming to international standards

Functioning laboratories within effective surveillance systems need



- Accurate and timely disease diagnosis
- Safety of laboratory staff and a safe working environment ensured (biosafety and biosecurity)
- Efficient systems for compilation, analysis and reporting of diagnostic and surveillance results
- Compliance with international reporting standards
- Laboratory networking and coordination with sustainability as a priority
- Anchorage with Regional Economic Communities
- Disease-based networks

QUALITY

Objective 1

Ability to detect IDENTIFY targeted diseases

ACTIVITIES

- Technical capacity building at institutional level but also nationally and regionally
- Diagnostic assays and techniques
- Validation, standardization, transfer of new protocols
- Sample collection and shipment
- Building laboratory infrastructure
- Provision of supplies and equipment

Objective 2

Timely reporting of IDENTIFY targeted diseases

ACTIVITIES

- Outbreak investigation support
- Reinforce and maintain links between specialized laboratory expertise and high-level policy makers
- Development of Animal Health Laboratory Strategic Plan and policy

Laboratory networking

Objective 4

ACTIVITIES

- National, Regional, Global levels
- Human Health - Animal Health
- Laboratory - Disease Surveillance
- Collaboration with reference laboratories and collaborating centres
- Information and biological sharing systems and standard approaches

Quality Assurance and Quality Management System

Objective 3

ACTIVITIES

- Biosafety/ biosecurity
- Laboratory equipment maintenance and calibration
- Proficiency testing
- Promoting laboratory quality management systems

GLOBAL IDENTIFY TARGETED DISEASES

Anthrax	Zoonoses
Bacterial enteric diseases	
Brucellosis	
Influenza	
Leptospirosis	
Rabies	
Tuberculosis	
Viral haemorrhagic fevers	
Pox viruses	
Antimicrobial-resistant pathogens	
Dengue	Human Diseases
Plasmodium sp. infections (Malaria)	
Plague	Animal Diseases
Chikungunya	
African Swine Fever	
Foot and Mouth Disease	
Newcastle Disease	
Peste des Petits Ruminants	
Contagious Bovine Pleuropneumonia	
Contagious Caprine Pleuropneumonia	
Classical Swine Fever	
Porcine Respiratory and Reproductive Syndrome	

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