

Laboratory surveillance strengthening activities - past, present & future

CDS Cluster
WHO India



Key areas of activity



Key areas of activity

- Human capacity building
- Standard laboratory guidelines development
- Strengthening diagnostic capacities
- Quality assurance in public health laboratories
- Biosafety, waste management and infection control
- Monitoring & evaluation
- Networking & coordination

Human capacity building



- Training in **Basic laboratory techniques** e.g. state and district laboratory personnel in appropriate techniques for diagnosis of zoonotic infections
- Training in **advanced diagnostic techniques** e.g. use of appropriate molecular techniques for surveillance and outbreak investigation
- Development of 1-week **Lab for Epi** training module

ACTIVITIES PLANNED:

- **Laboratory support to Post-Disaster Disease Surveillance** for select Tsunami-affected district laboratories
- **Pilot Lab for Epi** training at NIE Chennai in October 2005
- **EPILAB** pilot in 9 IDSP states

Standard laboratory guidelines

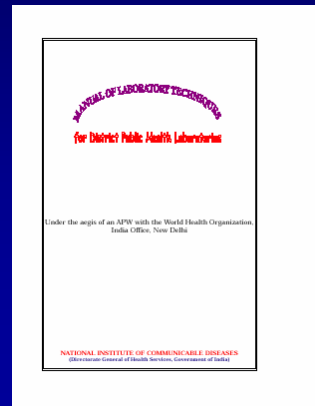
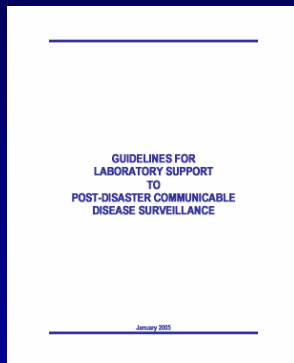
- IDSP laboratory manual for district public health laboratories – development, field testing & piloting
- Guidelines for laboratory support to post-disaster disease surveillance guidelines
- CD Alert on role of laboratories in disaster situations

ACTIVITIES PLANNED:

- Development, field testing and piloting of laboratory manual for PHC laboratories and Medical Officers



Standard laboratory guidelines



Strengthening diagnostic capacities

- Evaluation of rapid diagnostic kits of dengue, Leptospirosis, malaria – Maharashtra
- Field use of RDTs by RRTs – Maharashtra & Orissa
- Referral diagnostics – Regional Leptospira Center at BJMC
- Miscellaneous support in the form of procurement of consumables and standard reference material for major reference laboratories

ACTIVITIES PLANNED:

- Evaluation of select RDTs for diagnosis of zoonotic infections (dengue, JE, Leptospirosis, rickettsial diseases)
- Referral diagnostic support for Genotyping of dengue isolates-outbreak and non-outbreak by NICD
- Referral diagnostic support for Genotyping of measles isolates-outbreak and non-outbreak by NICD
- Develop the concept of a portable laboratory for use in disasters



Strengthening diagnostic capacities



Quality assurance in public health laboratories

- QA for select public health labs (PHC, CHC, DPHL, Distt. Hospital, SPHL) in Maharashtra
- QA for select public health labs (district & state) under NSPCD

ACTIVITIES PLANNED:

- Training of regional EQAS centers to support IDSP laboratory network

Quality assurance in public health laboratories



Biosafety, waste management & infection control

- **Standard guidelines** for district public health laboratories – IDSP Lab Manual

ACTIVITIES PLANNED:

- Strengthening **laboratory biosafety practices**
- Development and piloting **hospital infection control programme** in select IDH/ district hospitals

Monitoring & evaluation

- **Technical support** to NSPCD, IDSP and CDS

ACTIVITIES PLANNED:

- **Continued technical support** to NSPCD, IDSP, CDS
- Development of **Laboratory surveillance guidelines and indicators** for IDSP
- Development/ adaptation of **laboratory assessment tool**

Networking & coordination

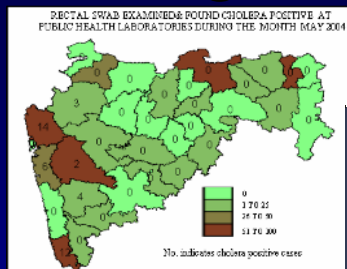
- Computerization of district public health laboratories – lab reporting by GIS
- Plenary meeting of referral laboratories
- Laboratory Networking CD – also hosted on the WHO India website
- NIV symposium on Emerging & re-emerging viral infections
- Influenza symposium at VPCI
- Support to National Influenza Pandemic Preparedness Plan



ACTIVITIES PLANNED:

- Pilot project on functional integration and networking of the various lab services in a district
- Networking of referral laboratories for Dengue genotyping
- Networking of referral laboratories for Measles genotyping

Networking & coordination



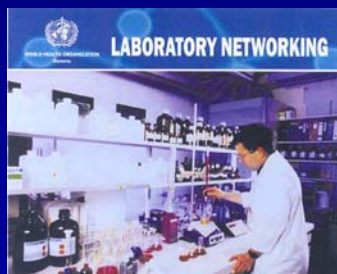
Report of the
Plenary Meeting of
WHO Collaborating Laboratories
and
National Referral Laboratories
in India

Pune, 13-15 April 2005

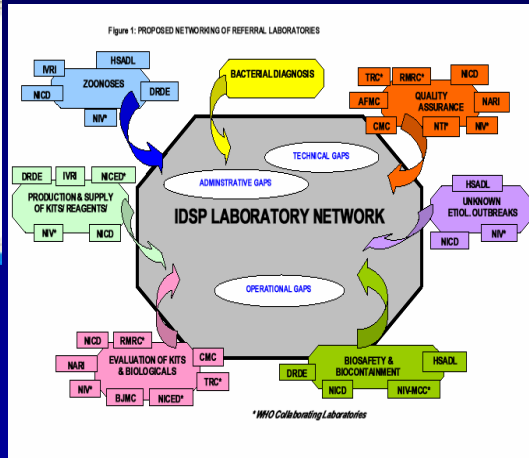
Joint Publication

Office of the WHO Representative to India, New Delhi
and
National Institute of Virology, Pune.

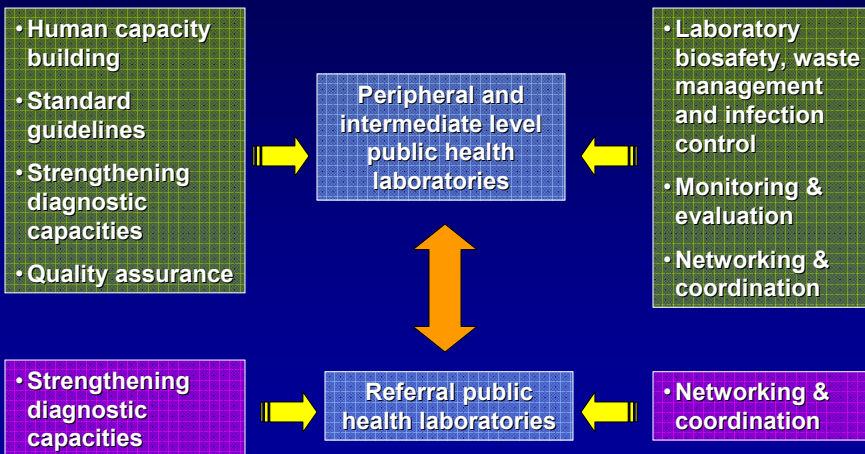
April 2005



PUBLIC HEALTH LABORATORY NETWORK STRENGTHENING



WHO India support to laboratory surveillance



Financial allocations

Regular budget

Biennium	Funds allocation (USD)
2002-03	10,000
2004-05	25,000
2006-07	50,000

Extra-budgetary support

Year	Funds allocation (USD)
2004	100,000
2005	150,000
2006*	200,000

*Expected

Human resource support

Year	Number of Laboratory specialists on board	Capacity
2001	1	National Consultant (Microbiology) – NSPCD
2002	1	National Consultant (Microbiology) – NSPCD
2003	1	National Consultant (Microbiology) – NSPCD
2004	2	National Consultant (Microbiology) – NSPCD National Consultant – Laboratory Surveillance
2005	1	National Consultant – Laboratory Surveillance

Thank you