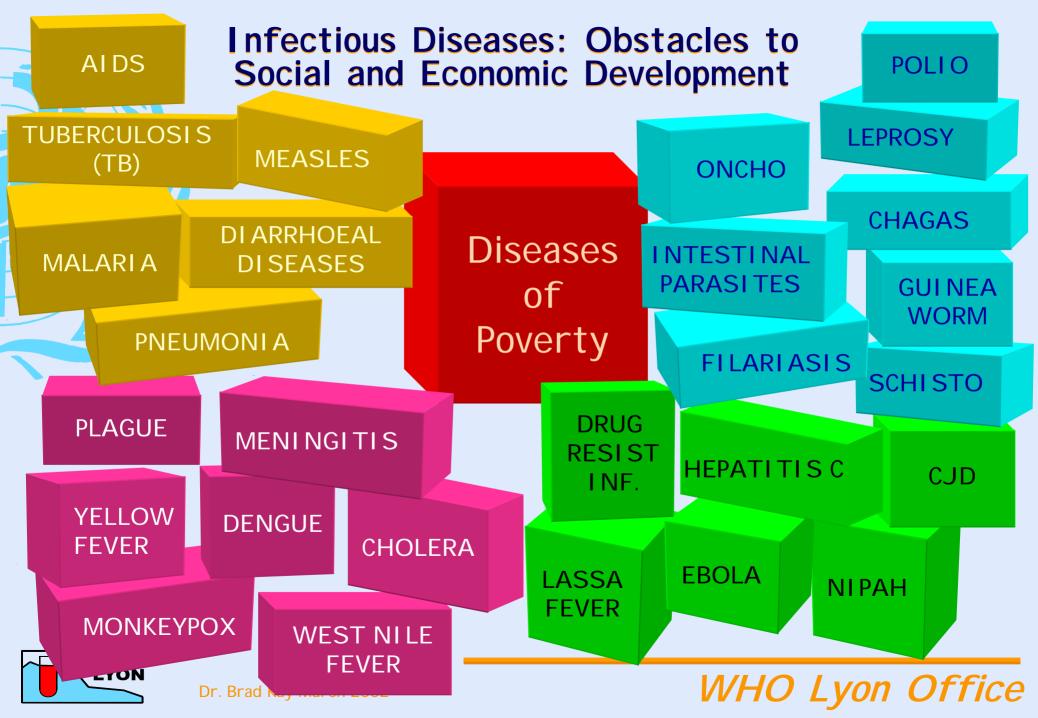


Globalization and poverty: Fertile ground for infectious diseases

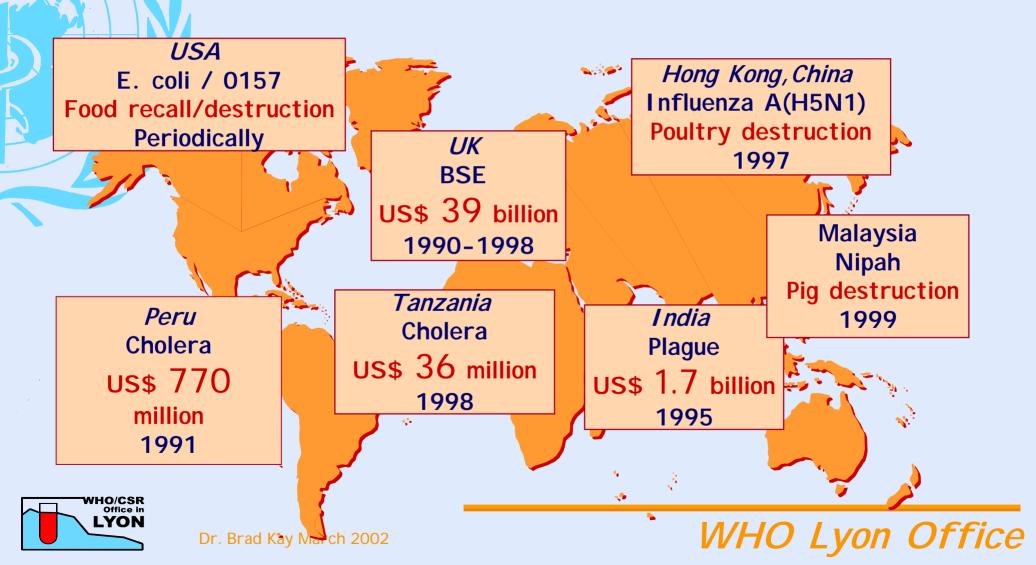




Emerging / Re-emerging infectious diseases, 1996 to 2001



Impact of Infectious Disease Outbreaks, 1990-2000





EPIDEMIC ALERT & RESPONSE

INTERNATIONAL HEALTH REGULATIONS

Contain known risks

Respond to the unexpected

Improve preparedness





Toward Global Health Security: Epidemic Alert and Response

- Specific interventions for major epidemicprone diseases (cholera, yellow fever...)
- WHO Global Epidemic Alert & Response Network (WHO global epidemic intelligence and international response)
- National capacity strengthening (epidemiology and laboratory strengthening)



WHO CSR Lyon Office strengthening national diagnostic capacities

- Fills neglected and under-funded areas by:
 - Strengthening national public health laboratories
 - Supporting field epidemiology training programmes
 - Strengthening laboratory linkages to outbreak detection
 & response activities
- Provides a focus for global partnerships in strengthening laboratories for disease surveillance



WHO CSR Office in Lyon





Strengthening National Laboratory Capacities

- core diagnostic expertise
- availability of essential reagents
- good management practices
- integration with surveillance activities
- quality control practices





Establishing laboratory support for common public health diseases







Providing laboratory support for catastrophic public health events





A two-year programme

- One 8-week introductory module in Lyon
- Two 3-week follow-up modules in Lyon
- 2 in-country periods





Profile of the trainees

- Experienced microbiologists/lab specialists
- Wording in the national reference laboratory
- Involved with detection of epidemic-prone diseases
- Responsible for the quality control programme





Initial Lyon Module (8 weeks)

- Module one
 - 1- Review of core laboratory procedues, elements of surveillance, use of information technology
 - 2 Establishing laboratory-based surveillance activities
 - 3 Administrative issues: laboratory management, quality control, data and communications, public relations

Methods

- Case studies
- Computer lab
- Lectures/presentations
- Group discussions, role play



Laboratory training at the Institute of Pharmaceutical and

Biological Sciences





Computer lab









- Integrated case-studies using:
 - Microbiology
 - Epidemiology
 - Laboratory management







Participants produce a three-part plan of action

- Laboratory operations
- Surveillance activities
- Communications linkages





The Goal:

To strengthen public health laboratory practice in disease surveillance and control programs







Thank you

