WHO Regional Perspectives

Daniel Sagebiel
WHO Western Pacific Region

Global Consultation of the SRLN
Geneva 14-15th April 2010
### MDR-TB in the Western Pacific: Treatment lagging behind

<table>
<thead>
<tr>
<th></th>
<th>Estimated annual new MDR</th>
<th>Estimated treated MDR cases in 2008</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>China</strong></td>
<td>112,348</td>
<td>388 (0.3%)</td>
</tr>
<tr>
<td><strong>Philippines</strong></td>
<td>12,124</td>
<td>340 (2.9%)</td>
</tr>
<tr>
<td><strong>Viet Nam</strong></td>
<td>6,468</td>
<td>100 (1.6%)</td>
</tr>
<tr>
<td><strong>Western Pacific Region</strong></td>
<td>135,411</td>
<td>1,643 (1%)</td>
</tr>
</tbody>
</table>
## Regional Overview SRL

- **5 SRL in the Region**

<table>
<thead>
<tr>
<th>RIT, Tokyo Japan</th>
<th>KIT, Seoul, Korea</th>
<th>Hong Kong, China</th>
<th>QMRL, Brisbane, Australia</th>
<th>IMVS, Adelaide, Australia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cambodia</td>
<td>Lao PDR (TA) Philippines</td>
<td>China Lao PDR</td>
<td>PNG PIC</td>
<td>Viet Nam PIC</td>
</tr>
<tr>
<td>Mongolia</td>
<td>Philippines</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Philippines</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **CDC/Hawaii**: 6 PIC
What are the challenges for laboratory services in the countries?

• Human resources
• Training (microscopy, culture, DST, molec. meth.)
• Laboratory capacity (equipment, workload, accessibility and logistics)
• Biosafety, biosecurity, infection control
• EQA (subnational coverage)
• Developing National Standards
• Linkage and coordination (NTP, laboratories, private sector, hospitals)
• Funding
What SRL support is available in the countries?

- EQA for sputum smear microscopy, culture and DST (Panel testing, re-checking of 1st line DST)
- Training, capacity building (e.g. lab technologists)
- Technical assistance (TA) and country visits
- Prevalence and drug resistance surveys
- Laboratory design, guidelines, DRS protocol
- Pacific TB Reference Lab network (PATLAB) for PIC (EQA, training, M&E, DR survey)
What works well with SRLs in the Region?

Overall very good support through SRL network in the Region

- Good communication (practical advice, clear recommendations)
- Strong, regular and well coordinated TA, continuity
- EQA and timely shipment of panels
- Monitoring and supervision
- Training
- Proficiency testing
- Review of SOPs
- Support for operational research
What SRL support is needed in the region?

Technical and managerial training and EQA

• Capacity building
  – Sputum smear microscopy,
  – (liquid) culture,
  – (rapid) DST
  – Molecular methods
  – New diagnostics and tools (LPA, Genexpert, field monitoring)

• TA and training
  – International standardized guidelines, manuals and new tools
  – SOPs and DRS protocols
  – M&E and data analysis
  – Quality assurance of surveys
  – Biosafety
  – Supply and equipment maintenance
  – Specimen transport
Sources of funding available for laboratory TA at country level?

- AUSAID (PNG)
- Global Fund (China, Lao PDR, PIC, Philippines, PNG)
- FIND (Vietnam)
- PEPFAR / TBTEAM / WHO-CIDA (Cambodia, Vietnam)
- SPC (PIC)
- USAID (Philippines)
- US CDC (6 US PIC)
- WHO country office (China)
- WHO WPRO TA (Lao PDR, PIC)
Proposed next steps - countries

- Strengthen QA, capacity and network for microscopy, culture, DST and new tools
- Strengthen local partnership between NTP/laboratories
- Design and implement standard TOR for SRL-support
- Training modules including liquid culture and LPA
- Introduction and scale up of new tools/diagnostics (LED microscopy, LPA, Genexpert) and routine use of molecular testing where feasible
- Secure and enhance funding of lab services and SRL activities
- Scale up of in country research
- Continue good quality SRL support to NRL
Proposed next steps - Region

- Scaling up laboratory services
- Sustain well functioning EQA and TA
- Capacity building and training courses
- Introduction of new technologies
- Enhance joint use of cross cutting laboratory resources
- Funding