National Laboratory Strategic Planning

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The Maputo Declaration on Strengthening of Laboratory Systems

Call on national governments to support laboratory systems as a priority by developing a national laboratory policy within the national health development plan that will guide the implementation of a national strategic laboratory plan. Governments should establish a department of laboratory systems within the Ministry of Health.

Call on national governments with support of their donors and partners in resource-limited settings to develop national strategic laboratory plans that integrate laboratory support for the major diseases of public health importance including HIV, tuberculosis, and malaria.
Core cross-cutting elements of laboratory health systems that should be strengthened to support multiple diseases of public health importance

**DI SEASES OF PUBLIC HEALTH IMPORTANCE**
(Drivers)

- Training/ Retention
- Infrastructure Development
- Supply chain/ maintenance of equipment
- Specimen Referral Systems
- Quality Management Systems
- Governance/ Regulatory Policy

**CROSS-CUTTING STREAMS**

- Malaria
- HIV
- TB
- Polio/ Influenza

**TIERED LABORATORY SERVICES**

**National Strategic Plans Should Integrate Major Diseases**

Nkengasong et al
TB, HIV, Malaria - Integrated Training Center, Zaria, Nigeria
Strengthening laboratory infrastructure in Ethiopia using an integrated approach

Reference laboratory for HIV, TB, and Malaria
National Laboratory Policy

Foundation for developing sustainable laboratory health systems

National Strategic Laboratory Plans
Potential structure of a national laboratory network system in resource-poor countries

functions

- Policy, Planning, Training, Quality Systems
  - Referral testing

responsibilities

- Oversight of regional level laboratories
- Oversight of government and non-government laboratories at regional level
- Support for government and non-government laboratory testing at district level
- Support for government and non-government laboratory testing support at health centers

Nkengasong et al
Steps to implement a laboratory strategic plan

- Country engagement
- Coordinating & technical committees formed
- Strengths, weaknesses, opportunities, and threats (SWOT) analysis conducted
- Strategic plan:
  - Developed
  - Strategic plan implemented
  - Strategic plan progress reviewed & evaluated
## Development of National Strategic Laboratory Plan in PEPFAR Countries

<table>
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<tr>
<th>Country</th>
<th>Coordinating &amp; Technical Committees Formed</th>
<th>Strategic Plan Developed</th>
<th>Strategic Plan Implemented</th>
<th>Strategic Plan Progress Reviewed &amp; Evaluated</th>
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*Non-focus country
National MOH laboratory policy & strategic plan
Mapping of laboratory partners in Ethiopia to implement the national laboratory plan

Operational Zones for Quality Laboratory Service Implementation

Zone 1 - ITECH
Zone 2 - ICAP
Zone 3 - JHU

National - SCMS

Central Support
APHL
ASCP
CLSI

E Mapping of laboratory partners in Ethiopia to implement the national laboratory plan
Conclusions

- Strategic laboratory plans are a cornerstone for strengthening laboratory systems
- Provide a process to coordinate efforts, build synergies, and develop sustainable laboratory systems
- Ensure there are no parallel laboratory systems
- Create a path for integration of infectious disease laboratories
- Encourage public-private partnerships