SLMTA Updates

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US Centers for Disease Control and Prevention
As of December 2013, how many countries have implemented SLMTA?

A. 25
B. 39
C. 47
D. 53

Correct answer: C. 47
As of December 2013, how many *laboratories* have implemented SLMTA?

A. 501  
B. 617  
C. 704  
D. 952
As of December 2013, how many people have been trained in SLMTA?

A. 906
B. 1,234
C. 1,507
D. 1,923

✓ D. 1,923
Spread of the SLMTA Program

Year when SLMTA was initiated:  
- 2010  
- 2011  
- 2012  
- 2013  

<table>
<thead>
<tr>
<th>2010-2013</th>
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<tbody>
<tr>
<td># countries</td>
<td>47</td>
<td></td>
</tr>
<tr>
<td># laboratories enrolled</td>
<td>617</td>
<td></td>
</tr>
<tr>
<td># people trained</td>
<td>1,923</td>
<td></td>
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</table>
What is the average of the *baseline* SLIPTA score (%) for all the SLMTA-enrolled laboratories (n=617)?

- A. 39%
- B. 49%
- C. 59%
- D. 69%

Correct answer: A. 39%
What is the average *improvement* from *baseline to exit audit score* for all the laboratories that have completed SLMTA (n=302)?

A. 15 percentage points

B. 25 percentage points ✅

C. 35 percentage points

D. 45 percentage points
Baseline vs. Exit Audit Results (n=302)

**Average Score**
- **Baseline**: 39%
- **Exit**: 64%

**Average Implementation Time** = 16 months

Note: Each square represents one laboratory
Post-SLMTA Surveillance Audit (n=92)

Median of 11 months (5-28 months) post exit

38% of these laboratories failed to improve from exit

62% of these laboratories further increased their scores from exit
Question 6

To date, how many SLMTA-enrolled laboratories have achieved international accreditation?

A. 5
B. 6
C. 7
D. 8

Correct answer: C. 7
<table>
<thead>
<tr>
<th>Laboratory Name</th>
<th>Type of Laboratory</th>
<th>Time from SLMTA enrollment to accreditation</th>
<th>Baseline Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. HIV National Reference Laboratory, Kenya</td>
<td>National</td>
<td>35 months</td>
<td>45%</td>
</tr>
<tr>
<td>2. KEMRI/CDC TB Laboratory, Kenya</td>
<td>National</td>
<td>17 months</td>
<td>75%</td>
</tr>
<tr>
<td>3. HIV National Reference Laboratory, Bahamas</td>
<td>National</td>
<td>28 months</td>
<td>38%</td>
</tr>
<tr>
<td>4. Hai Duong Prevention Medicine Center, Vietnam</td>
<td>Regional/Provincial</td>
<td>19 months</td>
<td>29%</td>
</tr>
<tr>
<td>5. Cimas Harare Medical Laboratory, Zimbabwe</td>
<td>Private</td>
<td>54 months</td>
<td>34%</td>
</tr>
<tr>
<td>6. Bungoma District Hospital Laboratory, Kenya</td>
<td>District</td>
<td>43 months</td>
<td>38%</td>
</tr>
<tr>
<td>7. Nyangabgwe Referral Hospital Laboratory, Botswana</td>
<td>Regional/Provincial</td>
<td>35 months</td>
<td>75%</td>
</tr>
</tbody>
</table>

Median: 35 months

Baseline Score: 38%
Estimated proportion of 43.5 million laboratory tests performed by star level before and after SLMTA implementation (n=302)

Before SLMTA
16% of tests done in laboratories with at least 1 star

23 million tests were done by labs
0 stars before → 1 or ↑ stars

After SLMTA
68% of tests done in laboratories with at least 1 star
Cumulative Number of SLMTA Trainers, Master Trainers, and TOTs (2009-2013)
97% of the TOT graduates and 87% of the master trainers are based in developing countries across Africa, Southeast Asia, and Latin America.
Evidence from 617 laboratories in 47 countries for SLMTA-driven improvement in quality management systems

Authors: Katy Yao¹
Elizabeth T. Luman¹

Background: The Strengthening Laboratory Management Toward Accreditation (SLMTA) programme is a large-scale effort to improve the quality of laboratories in resource-limited countries.

Training-of-trainers: A strategy to build country capacity for SLMTA expansion and sustainability

Authors: Takumore Maruta¹
Katy Yao²

Background: The Strengthening Laboratory Management Toward Accreditation (SLMTA) programme uses a training-of-trainers (TOT) model to build capacity for programme scale-up. The TOT strategy is designed to maximise utilisation of its graduates whilst minimising...
15 months of labor
- Authors from 12 countries
- 28 papers, including:
  - Global perspectives
  - Country and regional rollout
  - Implementation in a single lab
  - Mentorship
  - Special studies
Anna Murphy’s personal mission to bridge the “QC divide” in the developing world
Quantitative Quality Control Workshop

– (Day 1) estimated level of QC knowledge *prior to* taking this course
– (Day 7) estimated level of QC knowledge *prior to* taking this course

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<th></th>
<th>Day 1</th>
<th>Day 7</th>
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<tr>
<td>Median</td>
<td>80%</td>
<td>30%</td>
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</table>

N=25
Two workshops in 2015

- April 13-24
- October 19-30
Panama’s Central Reference Laboratory
- Implemented SLMTA in 2012 showing great results
- Convinced top management to support their pursuit of ISO15189 accreditation
- Wrote a proposal to the national system of public investment (by Ministry of Economy and Finance) requesting $800,000 for the next 5 years
- Received $190,000 USD for year 1
SLMTA/SLIPTA Symposium 2014
November 28-29, 2014
Cape Town, South Africa
A satellite meeting to the ASLM2014 Conference

Thank you