

Systematic monitoring and evaluation of laboratory system capacity strengthening for neglected tropical diseases: experiences and recommendations from sub-Saharan Africa and South Asia

I. Bates, S. Gregorius, C. Mulamba, & R. Dacombe

Capacity Research Unit, Liverpool School of Tropical Medicine, Pembroke Place, Liverpool, L3 5QA, UK

Introduction

 Systematic approaches to laboratory capacity strengthening (CS) are scarce and little is known about how to monitor and measure CS impact in real-time.

M&E experiences

Benefits of systematic M&E of laboratory CS

 Regular engagement with all relevant stakeholders provides in-depth understanding of CS progress in real-time.

Recommendations

- Ensure monitoring and evaluation processes are as participatory as possible.
- Training in monitoring and evaluation of local stakeholder and ensure cascading learning effect.

- The Capacity Research Unit (CRU)
 assisted the Centre for Neglected
 Tropical Diseases to design, monitor and
 evaluate (M&E) the capacity
 development of selected NTD
 laboratories in Ghana, Kenya, Malawi and
 Sri Lanka, using Bates et al.'s (2014) 5step approach to CS. This was a
 participatory process, involving each
 laboratory in all steps of the approach.
- Based on laboratory capacity baseline assessments each laboratory developed an individual CS action plan.
- The fifth step of the CS approach is about regular monitoring and refining individual CS action plans and indicators.
- Based on CRU's experiences, recommendations are given that can inform future M&E of laboratory CS projects.

- Flexibility of the data collection tools captured contextual factors and facilitated cross-country comparisons.
- Feedback workshops ensured that reprogramming of action plans took into consideration the perspectives of relevant stakeholders.
- Systematic involvement of CRU in monitoring and evaluation enabled the laboratories to get assistance and to receive recommendations on certain activities in real-time.



- Ensure that all relevant stakeholders are involved in reprogramming of laboratory CS action plans.
- Link stakeholders from different countries to facilitate cross-contextual learning.



Selected CS achievements

Methods

- Annual on-site visits and quarterly remote communication (email & Skype).
- Tools for visits: Interviews, focus group discussions, observations, checklists and questionnaires.
- Each on-site visit included a participatory feedback workshop, where all stakeholders assessed progress, reprogrammed action plans and revised indicators.
- Stakeholders included: directors; laboratory staff; heads of department; programme managers; and researchers.



M&E challenges

- High staff turnover with different levels of M&E understanding.
- Difficulty to ensure that all relevant stakeholders are involved in monitoring and evaluation activities.
- Changes in prioritisations of capacity strengthening activities.



Individual level

 Improved technical skills and understanding of quality management systems.

Institutional level

- Enhanced collaboration and support for national NTD programmes.
- Improved laboratory infrastructure.

National level

- Development of marketing strategies for laboratory services.
- Securing of additional funding.

International level

Increased South-South collaboration.

Conclusion

 Monitoring and evaluation of laboratory CS should be systematic and participatory to achieve sustainable outcomes at different levels.

Key References	Acknowledgements
 I. Bates, A. Boyd, H. Smith and D.C. Cole. 2014. A practical and systematic approach to organisational capacity strengthening for research in the health sector in Africa. <i>Health research Policy and Systems</i>, 12(11). J. Njelesani, R. Dacombe, T. Palmer, H. Smith, B. Koudou, M. Bockarie and I. Bates 2014. A Systematic Approach to Capacity Strengthening of Laboratory Systems for Control of Neglected Tropical Diseases in Ghana, Kenya, Malawi and Sri Lanka. <i>PLOS Neglected Tropical Diseases</i>, 8. 	The authors thank the Centre for Neglected Tropical Diseases and all participating laboratories for their collaboration.

