

Policy and procedures of the

**WHO/NICD Microbiology
External Quality
Assessment Programme in
Africa**

**Years 1 to 4
2002-2006**



Policy and procedures of the

**WHO/NICD Microbiology
External Quality
Assessment Programme in
Africa**

**Years 1 to 4
2002-2006**

© World Health Organization 2007

All rights reserved.

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

The mention of specific companies or of certain manufacturers' products does not imply that they are endorsed or recommended by the World Health Organization in preference to others of a similar nature that are not mentioned. Errors and omissions excepted, the names of proprietary products are distinguished by initial capital letters.

All reasonable precautions have been taken by WHO to verify the information contained in this publication. However, the published material is being distributed without warranty of any kind, either express or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall the World Health Organization be liable for damages arising from its use.

Table of contents

Acknowledgments	- 5 -
Abbreviations.....	- 7 -
Glossary	- 9 -
Introduction	- 11 -
Background	- 11 -
History of the WHO/NICD microbiology EQA programme.....	- 11 -
Purpose of this document	- 12 -
Target audience	- 12 -
Dissemination and use of the document	- 13 -
Quality assurance and the WHO/NICD microbiology EQA programme	- 15 -
Quality assurance.....	- 15 -
External quality assessment.....	- 15 -
Objectives of the WHO/NICD microbiology EQA programme	- 16 -
Clinical conditions and diagnostic tests.....	- 19 -
Clinical conditions.....	- 19 -
Diagnostic tests	- 19 -
Organization of the WHO/NICD microbiology EQA programme -	21 -
Technical implementation group	- 21 -
Participating laboratories	- 22 -
Referee laboratories	- 23 -
Technical Advisory Group	- 23 -
Regional Advisory Group	- 23 -
Interactions	- 25 -
Situation analysis.....	- 27 -
WHO assessments.....	- 27 -
NICD questionnaires	- 27 -
The EQA programme process.....	- 29 -
Enrolment of participating laboratories.....	- 29 -
Components of the surveys	- 29 -
Production and distribution of surveys	- 30 -

Timeframes	- 31 -
Evaluation of survey results	- 32 -
Documentation of results and feedback to participating laboratories	- 34 -
Data management	- 35 -
Documents	- 37 -
Technical documents	- 37 -
Documents for communication	- 37 -
Monitoring and evaluation of the WHO/NICD microbiology EQA programme	- 39 -
Monitoring process indicators	- 39 -
External evaluation	- 39 -
Follow-up	- 41 -
Informal follow-up	- 41 -
Formal follow-up	- 41 -
Web-based follow-up	- 41 -
Perspectives and challenges	- 43 -
Perspectives	- 43 -
Challenges	- 43 -
Bibliography	- 45 -
ANNEX 1 Organizational groups and participating laboratories for the WHO/NICD microbiology EQA programme	- 46 -
Technical implementation group (TIG)	- 46 -
Participating laboratories (Year 4, 2005-2006)	- 46 -
Referee laboratories	- 51 -
Technical advisory group (TAG)	- 53 -
ANNEX 2 Questionnaires sent to participating laboratories - 55 -	
ANNEX 3 Summary of survey challenges and expected responses for WHO/NICD bacteriology EQA	- 65 -
ANNEX 4: Standard Operating Procedures	- 79 -
Annex 4A Standard operating procedures for bacteriology EQA	- 80 -
Annex 4B Standard operating procedures for mycobacteriology EQA	- 114 -
Annex 4C Standard operating procedures for malaria EQA	- 125 -
ANNEX 5 Examples of instructions and report forms sent to participants	- 144 -
ANNEX 6 Financial background of WHO/NICD EQA programme	175

Acknowledgments

In addition to the invaluable roles played by the participating laboratories and referee laboratories, WHO would like to acknowledge with gratitude the contributions of the following to the development and implementation of the microbiology External Quality Assessment programme in Africa:

Ms Vivian Fensham
Laboratory Technologist, External Quality Assessment Unit, National Institute for Communicable Diseases (NICD), Johannesburg, South Africa

Ms Mary Harvey
United States Agency for International Development (USAID), Africa Bureau

Dr Kerrigan McCarthy
Medical Microbiologist, External Quality Assessment Unit, National Institute for Communicable Diseases (NICD), Johannesburg, South Africa

Dr Jean-Bosco Ndiokubwayo
Regional Adviser for Laboratories, WHO Regional Office for Africa

Dr Murray Trostle
United States Agency for International Development (USAID), Global Bureau

Dr. Michael Noble
Managing director, Clinical Microbiology Proficiency Testing,
Department of Pathology and Laboratory Medicine, The University of British Columbia, Vancouver, BC Canada

Financial support for the implementation of the programme was gratefully received from:

The Global Alliance for Vaccine Initiative, through the Pediatric Bacterial Meningitis Surveillance Programme, WHO

The Government of the Kingdom of the Netherlands

The United States Agency for International Development (USAID)

This document was edited and produced by Dr Antoine Pierson and Dr Sébastien Cognat, Quality Assurance Programme Managers, WHO Lyon Office for National Epidemic Preparedness and Response, in collaboration with Ms Kathleen Cavallaro, Focal Point for Laboratory Strengthening, Integrated Disease Surveillance and Response, Meningitis and Special Pathogens Branch, Centers for Disease Control and Prevention (CDC), Atlanta, USA.

The editors are grateful for the contribution of the following individuals during the review of this document:

Centers for Disease Control and Prevention (CDC), United States of America:

Ms Cheryl Bopp
Dr Leonard Mayer
Ms Helen Perry
Dr Martin Schriefer
Ms Jeanette St. Pierre

National Institute for Communicable Diseases (NICD), National Health Laboratory Service, South Africa:

Ms Lorraine Arntzen
Ms Rita van Deventer
Ms Leigh Dini
Professor John Frean
Dr Anne von Gottberg
Dr Karen Keddy
Ms Rebecca Landsberg
Ms Helen Haritos

Finally, the editors would like to thank both the National Institute for Communicable Diseases, South Africa (NICD) and the Centers for Disease Control and Prevention, United States of America, (CDC) for kindly permitting the reproduction of Annexes 2-6.

Abbreviations

AFRO	WHO Regional Office for Africa
CDC	Centers for Disease Control and Prevention, USA
CSR	WHO Department of Communicable Disease Surveillance and Response
EMR	Eastern Mediterranean Region
EMRO	WHO Regional Office for the Eastern Mediterranean
EPR	WHO Department of Epidemic and Pandemic Alert and Response
EQA	External Quality Assessment
GAVI	Global Alliance for Vaccine Initiative
IDSR	Integrated Disease Surveillance and Response
IHR	International Health Regulations
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
LYO	WHO Lyon Office for National Epidemic Preparedness and Response
MoH	Ministry of Health
NHLS	National Health Laboratory Service, South Africa
NICD	National Institute for Communicable Diseases, a division of the National Health Laboratory Service, South Africa
PBM	Regional Pediatric Bacterial Meningitis Surveillance
PT	Proficiency testing

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_29641

