

WHO Meeting on Buruli ulcer and other skin NTDs

Final report

25–27 March 2019

**WHO Headquarters
Geneva, Switzerland**



**World Health
Organization**

WHO Meeting on Buruli ulcer and other skin NTDs. Final report. 25–27 March 2019, WHO Headquarters Geneva, Switzerland

© **World Health Organization 2019**

Some rights reserved. This work is available under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 IGO licence (CC BY-NC-SA 3.0 IGO; <https://creativecommons.org/licenses/by-nc-sa/3.0/igo>).

Under the terms of this licence, you may copy, redistribute and adapt the work for non-commercial purposes, provided the work is appropriately cited, as indicated below. In any use of this work, there should be no suggestion that WHO endorses any specific organization, products or services. The use of the WHO logo is not permitted. If you adapt the work, then you must license your work under the same or equivalent Creative Commons licence. If you create a translation of this work, you should add the following disclaimer along with the suggested citation: “This translation was not created by the World Health Organization (WHO). WHO is not responsible for the content or accuracy of this translation. The original English edition shall be the binding and authentic edition”.

Any mediation relating to disputes arising under the licence shall be conducted in accordance with the mediation rules of the World Intellectual Property Organization.

Suggested citation. WHO Meeting on Buruli ulcer and other skin NTDs. Final report. 25–27 March 2019, WHO Headquarters Geneva, Switzerland. Geneva: World Health Organization; 2019. Licence: CC BY-NC-SA 3.0 IGO. Cataloguing-in-Publication (CIP) data. CIP data are available at <http://apps.who.int/iris>.

Sales, rights and licensing. To purchase WHO publications, see <http://apps.who.int/bookorders>. To submit requests for commercial use and queries on rights and licensing, see <http://www.who.int/about/licensing>.

Third-party materials. If you wish to reuse material from this work that is attributed to a third party, such as tables, figures or images, it is your responsibility to determine whether permission is needed for that reuse and to obtain permission from the copyright holder. The risk of claims resulting from infringement of any third-party-owned component in the work rests solely with the user.

General disclaimers. 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 WHO 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 and dashed 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 WHO 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 expressed or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall WHO be liable for damages arising from its use.

Printed in France.

WHO/CDS/NTD/IDM/2019.01

Table of content

| | |
|--|----------|
| Report of the WHO Technical Advisory Group on Buruli ulcer..... | 1 |
| Summary of the control sessions | 4 |
| Summary of the research sessions | 6 |

DAY 1

Plenary Sessions

| | |
|---|-----------|
| In memoriam: Dr Wayne Marvin Meyers | 9 |
| <i>Presented by Professor Françoise Portaels</i> | |
| Buruli ulcer in Australia, 2017-18 | 11 |
| <i>Presented by Paul Johnson</i> | |
| Buruli ulcer in the endemic region in far north Queensland Australia | 13 |
| <i>Presented by Dr Christina Steffen</i> | |
| Buruli ulcer in Australian children..... | 14 |
| <i>Presented by N. Deborah Friedman</i> | |
| Buruli ulcer control activities in Côte d'Ivoire in 2017-2018 | 16 |
| <i>Presented by Henri Assé</i> | |
| Six versus eight weeks of antibiotics for small <i>Mycobacterium ulcerans</i> lesions in Australian Patients. | 18 |
| <i>Presented by Daniel P. O'Brien</i> | |
| Fourth round of External Quality Assessment Program (EQAP) of molecular detection of <i>Mycobacterium ulcerans</i> in clinical specimens | 19 |
| <i>Presented by Miriam Eddyani</i> | |
| Rationale approach for effective wound care in Benin and Côte d'Ivoire: towards a multidisciplinary approach for the integrated management of Neglected Tropical Diseases with cutaneous manifestation. | 21 |
| <i>Presented by Christian Johnson</i> | |

| | |
|--|-----------|
| Wound management in communities in Benin and Côte d'Ivoire: findings from the pilot study..... | 23 |
| <i>Presented by Anita C. Wadagni</i> | |
| Skin NTDs – new initiatives | 25 |
| <i>Presented by Roderick Hay</i> | |
| Update on AFRO integrated strategy for case management of five neglected tropical diseases (Buruli ulcer, human African trypanosomiasis, leishmaniasis, leprosy and yaws) in the WHO African Region . | 26 |
| <i>Presented by Alexandre Tiendrebeogo</i> | |
| Skin disease prevalence survey as a part of integration activities for skin NTDs in Côte d'Ivoire: results from the Adzopé and Gagnoa health districts and implications for future implementation | 28 |
| <i>Presented by Rie Roselyne Yotsu</i> | |
| Buruli ulcer – where are we now? 2014 WHO programmatic targets and global epidemiology | 30 |
| <i>Presented by Till F. Omsen</i> | |

DAY 2

Control Presentations - Integration

| | |
|---|-----------|
| Review of Buruli ulcer surveillance data in Victoria, Australia, 2004 to 2018 | 33 |
| <i>Presented by Ee Laine Tay</i> | |
| Infection with <i>Mycobacterium ulcerans</i> (Buruli ulcer) and other neglected tropical skin diseases in French Guiana in 2017 and 2018..... | 35 |
| <i>Presented by Pierre Couppié</i> | |
| Buruli ulcer in Japan: update 2017-2018 | 36 |
| <i>Presented by Chiaki Murase</i> | |
| Skin NTDs in Japan | 38 |
| <i>Presented by Mariko Sugarawa-Mikami</i> | |
| Epidemiological surveillance of Buruli ulcer in Gabon in 2015 and 2016..... | 39 |
| <i>Presented by Dr Annick Mondjo</i> | |
| Update: Buruli ulcer control activities in Ghana 2017 – 2018 and the implementation of a start-up projecting integrating other skin-related neglected tropical diseases..... | 42 |
| <i>Presented by Dr Nana Konama Kotey</i> | |
| Evidence of the high endemicity of leprosy and yaws in Bale Loko commune, Central African Republic | 44 |
| <i>Presented by Alphonse Um Boock</i> | |

| | |
|--|--|
| Integrated approach to the control of neglected tropical diseases with skin manifestations in Benin .45 | |
| <i>Presented by Yves T. Barogui</i> | |
| Pilot project on integration in the control of neglected tropical diseases with skin manifestations in Togo's Maritime region47 | |
| <i>Presented by Charlotte Amedifou</i> | |
| Epidemiological facies of leprosy in Benin between 2006 and 201849 | |
| <i>Presented by Ronald Gnimavo</i> | |
| Developments in the epidemiological situation of Buruli ulcer in Benin between 2008 and 2018.....50 | |
| <i>Presented by Anita C. Wadagni</i> | |
| Disease burden and epidemiology of skin-presenting CM-NTDs in Maryland County, Liberia: results from an integrated cluster-randomised active case search survey.....51 | |
| <i>Presented by Emerson Rogers</i> | |
| Integrating mobile phone and social media interventions into health research: A case for improving early case detection of Buruli ulcer in Ghana and Cote d'Ivoire.....52 | |
| <i>Presented by Charles Quaye</i> | |
| Using medical illustrations to aid diagnosis of neglected tropical diseases54 | |
| <i>Presented by Joanna Butler</i> | |
| Interactive mapping as a tool to investigate for lesion distribution patterns among patients with Buruli ulcer55 | |
| <i>Presented by Arvind Yerramilli</i> | |
| Update on the further development of the SkinApp.....56 | |
| <i>Presented by Liesbeth Mieras</i> | |
| Capacity building practical dermatology skills for NTD and other global health programmes58 | |
| <i>Presented by Claire Fuller</i> | |
| WHO-UOC Skin NTDs on-line training program: Lessons learnt from former editions59 | |
| <i>Presented by Carme Carrion</i> | |

Other abstracts on control

| | |
|--|-----------|
| General topics..... | 63 |
| Proposal of a new Buruli ulcer local treatment using the PARI Protocol | 63 |
| <i>Poster by Fausto Assenza</i> | |
| Cooperation between traditional and biomedicine to improve care for patients with Buruli ulcer | 64 |
| <i>Poster by Yap Boum</i> | |
| Monitoring and auditing in randomized controlled trials on neglected tropical diseases. | 65 |
| <i>Poster by Leon Franzky, Ymkje Stienstra</i> | |
| Process of formulating a community wound management strategy in Benin and Côte d'Ivoire..... | 66 |
| <i>Poster by Flora Houndjrebo</i> | |
| Stigmatized neglected tropical diseases and obtaining informed consent for use of patients' data in an African setting: Buruli ulcer and leprosy in focus..... | 67 |
| <i>Ijeoma Meka</i> | |
| Chronic wounds, Buruli ulcer and traditional practitioners: developing a study to better understand the realities on the ground in the central Cameroonian health district of Akonolinga | 68 |
| <i>Poster by Marie Thérèse Ngo Nsoga</i> | |
| The paediatric participation scale measuring participation restrictions among former Buruli ulcer patients under the age of 15 in Ghana and Benin: Development and first validation results..... | 70 |
| <i>Ymkje Stienstra</i> | |
| Integrated management of Skin NTDs: a NGO perspective | 71 |
| <i>Poster by Patrick Suykerbuyk</i> | |
| Leaving no-one behind: inclusion in patient care..... | 72 |
| <i>Poster by Franz Wiedemann</i> | |
| Integration | 73 |
| Off target benefits of MDAs: the benefits of improving skin health as an unintended consequence of NTD intervention programmes. | 73 |
| <i>Claire Fuller</i> | |
| Making a case for the integrated approach to skin-related neglected tropical diseases in Ghana: an analysis of human resource barriers and opportunities within a start-up project integrating three skin-NTDs (Buruli ulcer, Leprosy and Yaws) | 74 |
| <i>Poster by Dr Benedict Okoe Quao</i> | |

| | |
|---|-----------|
| Interregional differences in the occurrence of Skin Neglected Tropical Diseases in Southern Ghana ... | 75 |
| <i>Poster by Matthijs van Blommestein</i> | |
| Development of tools to train health workers and monitor patients in the scope of the community wound management initiative: processes and lessons learned | 76 |
| <i>Poster by Anita C. Wadagni</i> | |
| Surveillance | 78 |
| Implementing active community-based surveillance-response system for Buruli ulcer early case detection and management in Ghana | 78 |
| <i>Poster by Collins Ahorlu</i> | |
| Modelling the distribution of <i>Mycobacterium ulcerans</i> infection in Lalo commune, Benin..... | 79 |
| <i>Esai Anagonou</i> | |
| Re-emergence of yaws in Benin: a study of four cases confirmed in Zè commune | 80 |
| <i>Poster by Adjimon Gilbert Ayélo</i> | |
| Is Buruli ulcer decreasing in Cameroon ?!..... | 81 |
| <i>Poster by Yap Boum</i> | |
| Buruli ulcer in Papua New Guinea..... | 82 |
| <i>Wendy Houinei</i> | |
| The search for Buruli ulcer in Sierra Leone | 84 |
| <i>Poster by Helen Please</i> | |
| Impact of climate change on the epidemiology of Buruli ulcer: analysis of a hypothesis | 85 |
| <i>Poster by Ghislain Sopoh</i> | |
| Diagnosis | 86 |
| Challenges associated with the biological confirmation of suspected cases of Buruli ulcer with negative PCR results in an African country with limited resources | 86 |
| <i>Poster by N'Guetta Aka</i> | |
| Biological confirmation of Buruli ulcer in Côte d'Ivoire from 2017-2018 | 88 |
| <i>Solange Kakou Ngazoa</i> | |
| A simple ELISA for the detection of mycolactone in biological samples | 89 |
| <i>Poster by Louisa Warryn</i> | |
| Other skin NTDs | 90 |
| Applying Insects' product for treatment of cutaneous leishmaniasis..... | 90 |
| <i>Poster by Fatemeh Ghaffarifar</i> | |

| | |
|--|----|
| Nosological designations for leprosy and their impact on stigmatization in Benin | 91 |
| <i>Poster by Ronald Gnimavo</i> | |

Other abstracts on research

| | |
|--|-----|
| Diagnostics | 95 |
| E-nose detection of Buruli ulcer in the DRC | 95 |
| <i>Poster by Stan Chudy</i> | |
| Molecular tools to improve the understanding of yaws in Ghana | 97 |
| <i>Poster by Michael Marks</i> | |
| Transmission..... | 99 |
| Buruli ulcer in two neonates: providing insight into incubation period of <i>M. ulcerans</i> disease in this age group..... | 99 |
| <i>Poster by Yaw Amoako</i> | |
| The influence of climatic variations patterns to the development of <i>M. ulcerans</i> infections in the Brong Ahafo Region of Ghana. | 102 |
| <i>Poster by Samuel Fosu Gyasi</i> | |
| Molecular evidence of the implication of non- <i>M. ulcerans</i> pathogens in skin diseases liked Buruli ulcer using PCR targeting the insertion sequences and the ketoreductase gene..... | 103 |
| <i>Poster by David Coulibaly N’Golo</i> | |
| Towards an Index of Biotic Integrity for use in Buruli ulcer endemic and non-endemic tropical regions | 105 |
| <i>Poster by Daniel Sanhueza</i> | |
| Treatment | 106 |

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_24947

