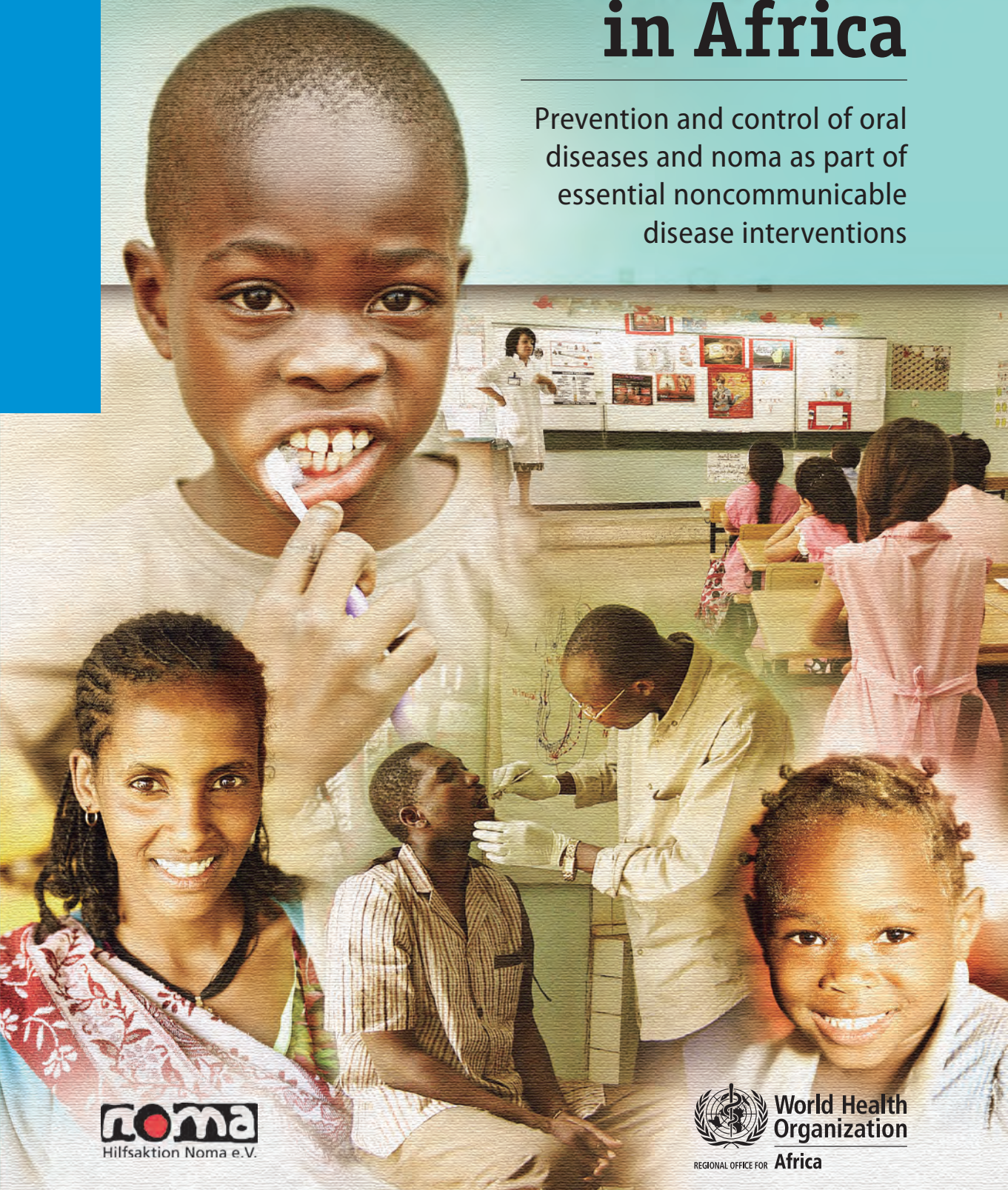


Promoting Oral Health in Africa

Prevention and control of oral
diseases and noma as part of
essential noncommunicable
disease interventions



Promoting Oral Health in Africa

Prevention and control of oral
diseases and noma as part of
essential noncommunicable
disease interventions

AFRO Library Cataloguing-in-Publication Data

Promoting oral health in Africa: prevention and control of oral diseases and noma as part of essential noncommunicable disease interventions

1. Oral Health – organization and administration
2. Mouth Diseases – prevention and control
3. Noma – prevention and control
4. Oral Hygiene – organization and administration
5. Health Promotion
 1. World Health Organization. Regional Office for Africa

ISBN: 978-929023297-1

(NLM Classification: **WU 140**)

Acknowledgements

The development of this manual was led by Benoit Varenne, Regional Adviser for Oral Health, WHO Regional Office for Africa. Editorial assistance was provided by Andrew Wilson. Production coordination was by Leo Vita-Finzi.

The manual was prepared under the general guidance of Francis C. Kasolo, Director, Disease Prevention and Control Cluster, and Abdikamal Alisalah, Acting Director, Noncommunicable Diseases Cluster, of the WHO Regional Office for Africa.

The WHO Regional Office for Africa would like to thank all the experts in the field of oral health and primary health care who contributed to the drafting of the manual. Special thanks are due to:

Habib Benzian (New York University, USA), Elizabeth Dimba (University of Nairobi, Kenya), Christopher Holmgren (independent oral health expert, France), Sudeshni Naidoo (WHO Collaborating Centre for Oral Health, University of the Western Cape, South Africa), Emmanuel Otoh (Regional Centre for Oral Health Research and Training Initiatives for Africa, Nigeria), Emeria Mugonzibwa (Muhimbili University of Health & Allied Sciences, United Republic of Tanzania).

The WHO Regional Office for Africa also sincerely thanks the following who assisted with development of the manual:

Constance Addo-Yobo (Ministry of Health, Ghana), Denise Baratti Mayer (University of Geneva, Switzerland), Souleymane Bougoum (Ministry of Health, Burkina Faso), Manon Chatelain (Sentinelles, Switzerland), Almoustapha Illo (Ministry of Health, Niger), Mamane Kaka (Ministry of Health, Niger), Lucina Koyio (Ministry of Health, Kenya), Niry Ramaromandray (Santé Sud, Madagascar), Emmanuel Crezoit (Ministry of Health, Côte d'Ivoire), Oumarou Djibo (Ministry of Health, Niger), Daouda Faye (Ministry of Health, Senegal), Ciku Mathenge (Ministry of Health, Rwanda), Rachel J.A. Mhavile (Tanzania Dental Association, United Republic of Tanzania), Neil Myburgh (WHO Collaborating Centre for Oral Health, University of the Western Cape, South Africa), Jocelyne Gare (Ministry of Health, Burkina Faso), Mark Topley (Bridge2Aid, United Republic of Tanzania), Ahadiel R. Senkoro (Ministry of Health, United Republic of Tanzania), Hadissa Tapsoba (oral health expert, Burkina Faso), Marie-Laure Tchéché (Ministry of Health, Côte d'Ivoire), Will Rodgers (Facing Africa, UK), Margaret N. Wandera (Makerere University Hospital, Uganda).

Thanks are also due to the following individuals for their review of the content of the manual:

Mamoudou Amadou (Hilfsaktion Noma e.V., Niger), Bimpe Adebisi (Federal Ministry of Health, Nigeria), Marion Bergman (Miracle Corners of the World, USA), Denis Bourgeois (Université Lyon 1, France), Lois Cohen (National Institute of Dental and Craniofacial Research, USA), Nicole Stauf (The Health Bureau Ltd, UK), Attie J. Louw (University of the Western Cape, South Africa), Eyitope Ogunbodede (Obafemi Awolowo University, Nigeria), Kahabuka F. Kokulengya (Muhimbili University of Health & Allied Sciences, United Republic of Tanzania), Bella Monse (Deutsche Gesellschaft für Internationale Zusammenarbeit, Philippines), Juha Ruotoistenmäki (University of Helsinki, Finland), Eino Honkala (Kuwait University, Kuwait), Michel Seminet (Brazzaville, Congo), Jeff Yengopal (University of the Witwatersrand, South Africa).

Representatives of the target readership including WHO staff in four countries in the Region (Kenya, Madagascar, Niger and Uganda) also kindly reviewed the manual and provided input:

Kenya: Joyce Nato, Elizabeth Onyiego, Loice Gathece, Regina Mutave, Alice K. Limo, Charles Akuru, Florence Ouma, Desmond K'Owino.

Madagascar: Harinjaka Randrianarivo, Christian Razanakoto, Eva Ranivoharilanto, Noeline Zafisenga, Nirina F. Rakotonomenjanahary, Noelisoa Rakotondrazaka, Rivoarilala Ratovonahary, Hantamalala Randrianampy, Verohanitriniala Raholiarintsoa, Olivier Aimé Rakotoarivony, Renaud Rasolofonirina, Domohina Rakotondrasoandrazana, Solomon Randriamanantsoa, Tina Madeleine Findrama, Rojolala Ratsimbazafy, Niry Jaoferson, Célestine Razafindramora, Hilarion Raolison Guy, Harinelina Randriamasiarijaona, Sahondra Raivonandrianina, Fanja Léonie Rakotoarijaona, Malala Raminosoa.

Niger: Habi Gado, Ibrahim Amadou, Bayé Assoumane, Ousseini Halima, Abdoulaye Boubacar, Chekou Koré Hadjo, El Sani Mahamane Mansour, Ibrahima Sita, Haroun Allassan, M. Tsayaba, Hamidou Chaibou, Barou Issa, Hassan Oumarou Awade, Hamsatou Saidou, Bako Hali, Salamatou Abdoulaziz, Hamsatou Boubacar.

Uganda: Hafisa Kasule, Juliet Nabbanja, Charles Mugisha Rwenyonyi, Nsubuga Peter Rock, Rose Kibalizi, John Wobusobozi, Charles Ssali, Patrick Lutakome Ddumba, Gaetti Nakagolo, Margret Kiwumulo, Kayizzi Mubiru, Kasule Mubiru, Katumba Ssentongo.

Finally, the following WHO staff members from headquarters and regional offices made valuable contributions to the text:

Emil Jones Asamoah-Odei, Andrea Bruni, Sebastiana Da Gama Nkomo, Jean-Marie Dangou, Saskia Estupinan, Frank John Lule, Charlotte Ndiaye, Hiroshi Ogawa, Ezra Ogwel Ouma, Poul Erik Petersen, Patrick C.W. Kaboré, Yves Turgeon, Simona Minchiotti, Boureima H. Sambo, Steven V. Shongwe, Issa Sanou and Chandralall Sookram.

The WHO Regional Office for Africa warmly acknowledges the financial support provided for this project from Hilfsaktion Noma e.V., and the encouragement provided by the President of Hilfsaktion Noma e.V., Ute Winkler-Stumpf.

Front cover photographs: WHO/Julie Pudlowski; Benoit Varenne; Pascaline Durand

Layout and typesetting: Interligar - Branding, Design & Web (<http://www.interligar.com.br>)

© WHO Regional Office for Africa, 2016

Publications of the World Health Organization enjoy copyright protection in accordance with the provisions of Protocol 2 of the Universal Copyright Convention. All rights reserved. Copies of this publication may be obtained from the Library, WHO Regional Office for Africa, P.O. Box 6, Brazzaville, Republic of Congo (Tel: +47 241 39100; Fax: +47 241 39507; E-mail: afrobooks@who.int). Requests for permission to reproduce or translate this publication – whether for sale or for non-commercial distribution – should be sent to the same address.

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 the World Health Organization 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. On no account shall the World Health Organization or its Regional Office for Africa be liable for damages arising from its use.

Contents

Abbreviations and acronyms	viii
Foreword by the Regional Director	ix
Overview	x
Introduction: using this manual	xiii
Chapter 1. Oral disease burden and risk factors	1
Oral health – essential to overall health	2
The burden of oral diseases	3
Noncommunicable diseases and oral health	4
Common risk factors	4
Changing risk patterns	4
Tackling the common risk factors of oral diseases and NCDs	5
Priority oral diseases	6
Tooth decay and cavities	7
Gum (periodontal) disease	9
Oral cancers	10
Noma (cancrum oris)	11
Oral manifestations of HIV and AIDS	12
Oro-facial trauma from accidents and violence	13
Cleft lip and cleft palate	14
Chapter 2. Integrating oral health within noncommunicable disease strategies at primary health care level	17
Integrating oral health within primary health care	18
The role of health workers who are not oral health professionals	20
Essential elements of oral health policy	21
Chapter 3. The Basic Package of Oral Care (BPOC)	25
Essential health packages: using limited resources effectively	26
Three key components	27
Affordable fluoride toothpaste (AFT)	27
Oral urgent treatment (OUT)	28
Atraumatic restorative treatment (ART)	28
Conditions for sustainable implementation of the BPOC	29
Referral procedures	30
Record-keeping and data collection	31
Chapter 4. Essential intervention protocols for primary health care facilities	33
PROTOCOL 1: Oral health examination	35
PROTOCOL 2: Management of pain affecting oral hard tissues (teeth)	38
PROTOCOL 3: Management of pain arising from oral soft tissues	40
PROTOCOL 4: Management of oral swelling	42

PROTOCOL 5: Management of oral and peri-oral ulcers	44
PROTOCOL 6: Management of red, white or grey oral pigmentation (discoloration)	46
PROTOCOL 7: Management of noma	48
PROTOCOL 8: Atraumatic restorative treatment (ART)	51
PROTOCOL 9: Basic oral health education	53
PROTOCOL 10: Infection control	55
Chapter 5. School-based oral health promotion	69
Schools: where good health skills begin	70
The challenge	70
Opportunities for collaboration	71
Essential package of school-based oral health interventions	72
Ensuring that oral health is integrated into school health policies	72
Health-enabling facilities and environment	73
Oral health education and promotion	74
Group tooth brushing	76
Participatory monitoring	76
Supporting effective implementation	76
Advocacy for school oral health	77
Chapter 6. Community-based oral health promotion and disease prevention	79
Essential package of community oral health activities	80
Local partnerships: crossing sectors and disciplines	81
Health sector leadership	81
Who should join an oral health partnership?	81
Oral health promotion	82
Community action can improve oral health for everyone	83
How to communicate these messages	83
BPOC training for all health workers and community health workers	84
Essential skills and services	84
Noma awareness: a priority health issue	85
Chapter 7. Monitoring and evaluation	89
National oral health surveillance	90
Surveillance of local level objectives	91
References	92
Annexes	
Annex 1. Essential medicines for the BPOC in primary health care facilities	96
Annex 2. Essential medicines for managing noma	98
Annex 3. Essential equipment for the BPOC in primary health care facilities	100
Annex 4. Recommended essential oral health indicators for the African Region	101
Annex 5. WHO STEPwise approach to surveillance – Oral Health Module	103
Annex 6. Global School-based Student Health Survey (GSHS) – Hygiene Module	107
Annex 7. Hand washing techniques	108

Figures

Figure 1. Map of the WHO African Region	3
Figure 2. Risk factors shared by major NCDs and oral diseases	5

Tables

Table 1. Checklist for oral health policy advocacy	22
Table 2. Suggested minimum competencies required for OUT and ART	29
Table 3. Essential oral health messages to be taught in schools	74
Table 4. Advocacy messages for school oral health	77
Table 5. What should a first-contact health agent be able to do?	85
Table 6. Surveillance indicators for local oral health activities	91

预览已结束，完整报告链接和二

<https://www.yunbaogao.cn/report/index/report?rep>