

A Day-by-Day Chronicle of the 2013–2016 Ebola Outbreak

Stephan Gregory Bullard

A Day-by-Day Chronicle of the 2013–2016 Ebola Outbreak



Springer

Stephan Gregory Bullard
University of Hartford
Hillyer College
West Hartford, CT, USA

ISBN 978-3-319-76564-8 ISBN 978-3-319-76565-5 (eBook)
<https://doi.org/10.1007/978-3-319-76565-5>

Library of Congress Control Number: 2018934427

© Springer International Publishing AG, part of Springer Nature 2018

This work is subject to copyright. All rights are reserved by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, express or implied, with respect to the material contained herein or for any errors or omissions that may have been made. The publisher remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

Printed on acid-free paper

This Springer imprint is published by the registered company Springer International Publishing AG part of Springer Nature.

The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

This book is dedicated to everyone directly and indirectly impacted by the 2013–2016 Ebola outbreak. It is also dedicated to my loving wife, Candace Corbeil.

Acknowledgments

This book would not have been possible without the help of numerous individuals and institutions. Research support was provided by the University of Hartford, Hillyer College, and Dean David Goldenberg. Michael Robinson and Candace Corbeil helped with editing. Copyright permission and assistance was provided by the World Health Organization, National Public Radio, Médecins Sans Frontières, National Geographic, Pardis Sabeti, Stephen Gire, and Mark McLaughlin.

Contents

1	Introduction	1
2	Initial Outbreak Period (December 2013–May 22, 2014)	11
3	Escalation (May 23, 2014–August 31, 2014)	23
4	The Peak in Africa (September 2014)	81
5	Global Spread (October 2014)	125
6	Beginning of the Decline (November–December 2014)	173
7	Simmering to the End (January 2015–June 2016)	227
8	Outbreak Data	311
Index		327

About the Author

Stephan Bullard is an Associate Professor of Biology at the University of Hartford in Connecticut. He studies notable disasters. His previous books include *The Silver Bridge Disaster of 1967* and *Three Mile Island, Chernobyl and Fukushima: Curse of the Nuclear Genie*.

List of Abbreviations

BSL	Biosafety level; 4 levels are recognized, biosafety level 4 is the highest
CDC	Centers for Disease Control and Prevention
DOD	Department of Defense
ECDC	The European Center for Disease Prevention and Control
ECOWAS	Economic Community of West African States
FDA	Food and Drug Administration
HHS	Health and Human Services
MSF	Médecins Sans Frontières, known as Doctors Without Borders in English
NGO	Non-governmental organization
NHS	UK National Health Service
NIH	National Institutes of Health
PPE	Personal protective equipment
UNICEF	United Nations Children's Fund
UNMEER	United Nations Mission for Ebola Emergency Response
USAMRIID	United States Army Medical Research Institute of Infectious Diseases
WHO	World Health Organization