



Universiteit
Leiden
The Netherlands

Health and demography in late 19th century Kimberley : a palaeopathological assessment

Merwe, A.E. van der

Citation

Merwe, A. E. van der. (2010, September 8). *Health and demography in late 19th century Kimberley : a palaeopathological assessment*. Barge's Anthropologica, Leiden. Retrieved from <https://hdl.handle.net/1887/15931>

Version: Corrected Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/15931>

Note: To cite this publication please use the final published version (if applicable).

Health and Demography in Late 19th Century Kimberley

A Palaeopathological Assessment

Alie Emily van der Merwe

Colophon

Health and Demography in Late 19th Century Kimberley
A Palaeopathological Assessment

Alie Emily van der Merwe
Thesis Leiden University Medical Centre

Cover illustration:

‘Big Hole’ Kimberley Mine. Photograph by M. Loots

Histology section of archaeological bone

© 2010 A.E. van der Merwe, Leiden, the Netherlands. All rights reserved. No part of this book may be reproduced or transmitted, in any form or by any means, without the written permissions of the author.

Published by Barge’s Anthropologica, Leiden

Barge’s Anthropologica Serie Nr. 14

Printed by Ipskamp Drukkers

ISBN: 978-90-78943-02-0

Health and Demography in Late 19th Century Kimberley

A Palaeopathological Assessment

Proefschrift

Ter verkrijging van
de graad van Doctor aan de Universiteit Leiden,
op gezag van Rector magnificus Prof.Mr. P.F. van der Heijden,
volgens besluit van het College voor Promoties
te verdedigen op woensdag 8 september 2010
klokke 16:15 uur

door

Alie Emily van der Merwe
geboren te Vanderbijlpark, Zuid Afrika
in 1982

Promotiecommissie

Promotores

Prof. Dr. G.J.R. Maat

Prof. Dr. M. Steyn

University of Pretoria, South Africa

Overige Leden

Prof. Dr. M. van Kolfschoten

University of Leiden

Prof. Dr. P.C.W. Hogendoorn

Leiden University Medical Centre

Dr. Tj.D. Brintjes

Gelre Ziekenhuizen, Apeldoorn

The work presented in this thesis was performed at the Department of Anatomy, University of Pretoria, South Africa and the Department of Anatomy and Embryology of the Leiden University Medical Centre as granted by SARHA (South African Resource and Heritage Agency) in excavation permit 80/03/04/004/51. The project was funded by the South African National Research Foundation and NAVKOM.

Financial support by the Stichting Nederlands Museum voor Anthropologie en Praehistorie and the Nederlandse Stichting voor Antropobiologie for the publication of this thesis is gratefully acknowledged.

Aan mijn moeder, zus en Johan Schutte

Contents

Chapter 1

Introduction **1**

In part accepted for publication in the South African Archaeological Bulletin

- 1.1 The study of palaeopathology 3
- 1.2 Kimberley – Historical setting 6
- 1.3 The purpose of the study 9

Chapter 2

Materials and Methods **13**

In part accepted for publication in the South African Archaeological Bulletin

- 2.1 Excavation of skeletal material 15
- 2.2 Accession numbers 16
- 2.3 Methods 19
 - 2.3.1 Methods for sex determination 19
 - 2.3.2 Methods for Age determination 23
 - 2.3.3 Methods for the estimation of antemortem stature 26

Chapter 3

Results **33**

In part accepted for publication in the South African Archaeological Bulletin

- 3.1 Archaeological findings 35
- 3.2 Demography 37
- 3.3 Palaeopathology 38

Chapter 4

Trauma and Amputations in 19th Century Miners from Kimberley, South Africa **43**

International Journal of Osteoarchaeology (2010), 20(3):291-306

Chapter 5

Adult Scurvy in Skeletal Remains of Late 19th Century Mineworkers from Kimberley South Africa **67**

International Journal of Osteoarchaeology (2010), 20(3):307-316

Chapter 6	
Ossified Haematomas and Infectious Bone Changes on the Anterior Tibia: Histomorphological Features as an Aid for Accurate Diagnosis	85
<i>International Journal of Osteoarchaeology</i> (2010), 20(2):227 - 239	
Chapter 7	
Dental Health of 19th Century Mineworkers from Kimberley, South Africa	109
<i>International Journal of Osteoarchaeology</i> DOI: 10.1002/oa.1143	
Chapter 8	
The High Prevalence of Supernumerary Teeth in skeletal Remains from a 19th Century Mining Community from Kimberley, South Africa	135
<i>South African Dental Journal</i> (2009), 64(4):162 - 166	
Chapter 9	
The Origins of Late 19th Century Migrant Diamond Miners Uncovered in Kimberley, South Africa	149
<i>Accepted for publication in the South African Archaeological Bulletin</i>	
Chapter 10	
General Discussion	175
<i>In part accepted for publication in the South African Archaeological Bulletin</i>	
Appendices	
A.1 Individual catalogue	189
A.2 List of grave goods	245
A.3 Commingled remains catalogue	249
A.4 Discriptive craniometry data	267
Summary	271
Nederlandse Samenvatting	277
Curriculum Vitae	283
Acknowledgements	289

