



Universiteit
Leiden
The Netherlands

Post-reproductive survival in a polygamous society in rural Africa

Bodegom, D. van

Citation

Bodegom, D. van. (2011, November 2). *Post-reproductive survival in a polygamous society in rural Africa*. Retrieved from <https://hdl.handle.net/1887/18014>

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/1887/18014>

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

**POST-REPRODUCTIVE SURVIVAL
IN A POLYGAMOUS SOCIETY IN RURAL AFRICA**

Post-reproductive survival in a polygamous society in rural Africa
Proefschrift Leiden

© David van Bodegom, 2011

ISBN 978-90-817915-0-2

**POST-REPRODUCTIVE SURVIVAL
IN A POLYGAMOUS SOCIETY IN RURAL AFRICA**

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 2 november 2011
klokke 15:00 uur

door

David van Bodegom
geboren te Zuidhorn
in 1978

PROMOTIECOMMISSIE

Promotor:	Prof. dr. R.G.J. Westendorp
Co-promotores:	Dr. J.J. Meij Dr. G.C.F. Thomése (Vrije Universiteit Amsterdam)
Overige leden:	Prof. dr. S. Daan (Rijksuniversiteit Groningen) Prof. dr. F.M. Helmerhorst Prof. dr. B.J. Zwaan (Wageningen University)

The research presented in this thesis was supported by the Netherlands Foundation for the advancements of Tropical Research (grant number WOTRO 93-467), the Netherlands Organization for Scientific Research (NWO 051-14-050), the EU funded Network of Excellence LifeSpan (FP6 036894), an unrestricted grant of the Board of the Leiden University Medical Center and Stichting Dioraphte.

Ik word aan 't oud zijn niet gewend.

*De lichtelaie die 'k heb gekend
zit nog te diep in mijne knoken
en blijft mij dag en nacht bestoken.*

Willem Elsschot

Contents

Chapter 1 General introduction	9
Chapter 2 Regulation of human life-histories: the role of the inflammatory host response	21
Chapter 3 The Bimoba: the people of Yennu	41
Chapter 4 Socio-economic status by rapid appraisal is highly correlated to mortality risks in rural Africa	65
Chapter 5 Quality-quantity tradeoff of human offspring under adverse environmental conditions	83
Chapter 6 Common CFTR gene variants influence body composition and survival in rural Ghana	107
Chapter 7 Selection for longevity in a polygamous society in rural Africa	125
Chapter 8 Socio-economic status determines sex dependent survival of human offspring in rural Africa	141
Chapter 9 When grandmothers matter	151
Chapter 10 General discussion	159
Nederlandse samenvatting	175
Acknowledgements	189
List of scientific publications	195
Curriculum vitae	199

