

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/32610> holds various files of this Leiden University dissertation.

Author: Hoencamp, Rigo

Title: Task force Uruzgan, Afghanistan 2006-2010 : medical aspects and challenges

Issue Date: 2015-03-31

Task Force Uruzgan, Afghanistan 2006-2010: medical aspects and challenges

Rigo Hoencamp

This thesis was prepared at the Department of Surgery, Leiden University Medical Center & Leiden University, the Netherlands in collaboration with the Ministry of Defence.

Cover photo: Mediacentrum Defensie
Cover design: X-Media MCD
Printed by: OBT de Bink Leiden

I would like to gratefully acknowledge the support I received from the Ministry of Defence.

© 2014 Rigo Hoencamp, Den Haag

All rights reserved. No part of this thesis may be reproduced, stored in a retrieval system of any nature, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without prior written permission by the author.

ISBN: 978-90-9028744-7

Task Force Uruzgan, Afghanistan 2006-2010: medical aspects and challenges

PROEFSCHRIFT
ter verkrijging van
de graad van Doctor aan de Universiteit Leiden,
op gezag van de Rector Magnificus prof. mr. C.J.J.M. Stolker,
volgens besluit van het College voor Promoties
te verdedigen op dinsdag 31 maart 2015
klokke 10.00 uur

Door:
Rigo Hoencamp
geboren te Den Haag in 1979

Promotiecommissie

Promotores: Prof. Dr. J.F. Hamming
Prof. Dr. L.P.H. Leenen (Universitair Medisch Centrum Utrecht)
Prof. Dr. H.G.J.M. Vermetten

Overige leden: Kapitein ter Zee-arts Dr. J.A.H. Bos (Defensie Gezondheidszorg Organisatie)
Prof. Dr. R.S. Breederveld
Brigadegeneraal-arts J. de Graaf (Defensie Gezondheidszorg Organisatie)
Prof. Dr. E. Hoencamp
Dr. S.A.G. Meylaerts (Medisch Centrum Haaglanden)
Prof. Dr. I.B. Schipper
Dr. E.C.T.H. Tan (Radboud Universitair Medisch Centrum)

*He who wishes to be a surgeon,
must first go to war.*

(Hippocrates, ca. 460-377 B.C.)

Aan mijn ouders

Voor Fleur, Loyce en Yade

Contents

Introduction		8
Chapter 1	General introduction and outline of the thesis	9
Part 1	Incidence and epidemiology of Battle Casualties	20
Chapter 2	Systematic review of the prevalence and characteristics of Battle Casualties from NATO coalition forces in Iraq and Afghanistan	21
Chapter 3	Incidence and Epidemiology of Casualties treated at the Dutch role 2 Enhanced Medical Treatment Facility at Multi National Base Tarin Kowt, Afghanistan in the period 2006-2010	39
Chapter 4	Impact of explosive devices in modern armed conflicts: in-depth analysis of Dutch battle casualties in Southern Afghanistan	51
Part 2	Quality of care	64
Chapter 5	Impact of combat events on first responders: experiences of the armed conflict in Uruzgan, Afghanistan	65
Chapter 6	Lessons learned from Dutch deployed surgeons and anesthesiologists to Afghanistan: 2006- 2010	87
Chapter 7	Challenges in training of military surgeons: experiences from Dutch combat operations in Southern Afghanistan	101
Part 3	Quality of life	116
Chapter 8	Long-term impact of battle injuries: five-year follow-up of injured Dutch servicemen in Afghanistan 2006-2010	117
Chapter 9	Cross-sectional analysis of Dutch repatriated service members from Southern Afghanistan (2003-2014)	135
Discussion		148
Chapter 10	Summary and future perspective	149
Chapter 11	Summary in Dutch (Nederlandse samenvatting)	157
Appendices		165
	Acknowledgments (Dankwoord)	166
	List of Publications	169
	Curriculum Vitae	171