

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/20905> holds various files of this Leiden University dissertation.

Author: Wouters, M.W.J.M

Title: Measuring and improving quality of care in surgical oncology

Issue Date: 2013-05-23

Measuring and Improving Quality of Care in Surgical Oncology

Michel W.J.M. Wouters

Colofon

Measuring and improving quality of care in surgical oncology

Thesis, Leiden University, the Netherlands, 2013

© Michel W.J.M. Wouters, 2013, The Netherlands

ISBN/EAN: 978-90-820652-0-6

Cover design: Janneke Hendriks, Jam-studio, Den Haag

Layout: Chris D. Bor, Academic Medical Centre, University of Amsterdam

Printed by: Buijten & Schipperheijn, Amsterdam

Measuring and Improving Quality of Care in Surgical Oncology

PROEFSCHRIFT

ter verkrijging van
de graad van Doctor aan de Universiteit Leiden,
op gezag van Rector Magnificus prof. mr. C.J.J.M. Stolker,
volgens besluit van het College voor Promoties
ter verdediging op donderdag 23 mei 2013
klokke 13u45

door
Michael Wilhelmus Jacobus Maria Wouters
geboren te Rilland-Bath in 1967

PROMOTIECOMMISSIE

Promotores

prof. dr R.A.E.M. Tollenaar
prof. dr J. Kievit

Overige leden

prof. dr C.J.H. van de Velde	Nederlands Kanker Instituut – Antoni van Leeuwenhoek
prof. dr W.H. van Harten	Universiteit Twente
prof. dr Th. Wiggers	Universitair Medisch Centrum Groningen

DEZE UITGAVE IS TOT STAND GEKOMEN MET FINANCIËLE STEUN VAN:

KWF Kankerbestrijding, Nederlands Kanker Instituut - Antoni van Leeuwenhoek, Leids Universitair Medisch Centrum, GlaxoSmithKline BV, Roche Nederland BV, Agenda NV, Sanofi-Aventis BV, Jan van der Kroon en Guus Corver (patient tot 2009).

HET ONDERZOEK IN DIT PROEFSCHRIFT IS MEDE MOGELIJK GEMAAKT DOOR:

KWF Kankerbestrijding, Integraal Kankercentrum Nederland (voormalig Integraal Kankercentrum West), Integraal Kankercentrum Zuid, Stichting ZOLEON (voormalig Stichting Samenwerking Oncologie Haaglanden).

The 'End Result' Idea

"The common sense notion that **every** hospital should follow **every** patient it treats, long enough to determine whether or not the treatment has been successful, and then to inquire, 'If not, why not?' with a view to preventing similar failures in the future"

Ernest Amory Codman, surgeon, 1869-1940

Aan hen die mij al die tijd steunden!

Voor mijn lieve Ouders, Sandra, Alessa en Tim

CONTENTS

Chapter 1	Introduction and Outline of this Thesis	9
Chapter 2	The Volume - Outcome Relationship for Esophageal Cancer Surgery: A Systematic Review and Meta-analysis <i>Cancer 2011</i>	17
Chapter 3	High-Volume versus Low-Volume for Esophageal Resections for Cancer: The Essential Role of Case-Mix Adjustments based on Clinical Data <i>Annals of Surgical Oncology 2008</i>	35
Chapter 4	Centralization of Esophageal Cancer Surgery: Does It Improve Clinical Outcome? <i>Annals of Surgical Oncology 2009</i>	49
Chapter 5	Volume or Outcome-Based Referral to Improve Quality of Care for Esophageal Cancer Surgery in the Netherlands <i>Journal of Surgical Oncology 2009</i>	65
Chapter 6	Editorial: Outcome-Based Referral to Improve Quality of Care in Upper GI Surgery <i>Journal of Surgical Oncology 2008</i>	81
Chapter 7	Quality indicators for Esophageal Cancer Surgery: Which are Evidence- based? <i>European Journal of Surgical Oncology 2010</i>	87
Chapter 8	Exemplary Care and Outcome (ECO): a Composite Measure for Quality Assessment in Cancer Surgery <i>Submitted</i>	109

Chapter 9	Variation in Treatment and Outcome in Patients with Non-Small Cell Lung Cancer by Region, Hospital type and Volume in the Netherlands <i>European Journal of Surgical Oncology 2010</i>	127
Chapter 10	Variation in treatment and outcome of colon cancer patients between hospitals in the Netherlands <i>European Journal of Surgical Oncology 2010</i>	145
Chapter 11	Effect of Hospital Volume on Postoperative Mortality and Survival after Esophageal and Gastric Cancer Surgery in the Netherlands between 1989 and 2009 <i>European Journal of Cancer 2012</i>	163
Chapter 12	General Discussion and Summary	181
	List of Publications	201
	Nederlandse samenvatting	211
	Curriculum Vitae	221
	Dankwoord	227

