



Universiteit
Leiden
The Netherlands

Antimicrobial strategies and multidisciplinary care in prosthetic joint infections

Hanssen, J.L.J.

Citation

Hanssen, J. L. J. (2026, June 24). *Antimicrobial strategies and multidisciplinary care in prosthetic joint infections*. Retrieved from <https://hdl.handle.net/1887/4307030>

Version: 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/1887/4307030>

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

**Antimicrobial strategies and multidisciplinary care
in prosthetic joint infections**

Jaap Leonardus Jacobus Hanssen

Antimicrobial strategies and multidisciplinary care in prosthetic joint infections

© 2026, Jaap Leonardus Jacobus Hanssen, the Netherlands

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, without prior written permission of the author.

Provided by thesis specialist Ridderprint, ridderprint.nl

Printing: Ridderprint

Layout and design: Erwin Timmerman, persoonlijkproefschrift.nl

Cover design: Jaap Hanssen

ISBN: 978-94-6537-502-1

**Antimicrobial strategies and multidisciplinary care
in prosthetic joint infections**

Proefschrift

ter verkrijging van
de graad van doctor aan de Universiteit Leiden,
op gezag van de rector magnificus prof. dr. S. de Rijcke,
volgens besluit van het college voor promoties
te verdedigen op woensdag 24 juni 2026
klokke 14:30 uur

door
Jaap Leonardus Jacobus Hanssen
geboren te Emmen
in 1986

Promotor

Prof. dr. M.G.J. de Boer

Copromotor

dr. H. Scheper

Promotiecommissie

Prof. dr. B.C.H. van der Wal

Prof. dr. L.G.J. Visser

Dr. A.O. Miller (Weill Cornell Medical College)

Dr. M. Wouthuyzen-Bakker (Universitair Medisch Centrum Groningen)

Dr. S. van Asten (Radboud Universitair Medisch Centrum)

Table of contents

Chapter 1	Introduction and outline of the thesis	7
Part I Multidisciplinary care for bone and joint infections		
Chapter 2	Implementation of multidisciplinary team decisions on the management of complex bone and joint infections: an observational study	29
Part II Antimicrobial strategies for prosthetic joint infections treated with debridement, antibiotics and implant retention		
Chapter 3	Rifampicin Combination Therapy versus Targeted Antimicrobial Monotherapy in the Oral Antimicrobial Treatment Phase of Staphylococcal Prosthetic Joint Infection (RiCOTTA-trial): protocol for a randomized, controlled, open-label, non-inferiority trial	53
Chapter 4	Targeted oral antimicrobial regimens for Gram-negative prosthetic joint infections: a prospective multicenter study	71
Part III Suppressive antimicrobial therapy for prosthetic joint infections		
Chapter 5	Global practice variation of suppressive antimicrobial treatment for prosthetic joint infections: A cross-sectional survey study	93
Chapter 6	Practice variation, outcomes and definitions of suppressive antimicrobial therapy for prosthetic joint infections: a systematic review and expert consensus statement	117
Chapter 7	Dosing and treatment duration of suppressive antimicrobial therapy in orthopedic implant infections: a cohort study	149
Chapter 8	Summary and general discussion	177
Appendices	Nederlandse samenvatting	199
	Portfolio	209
	Acknowledgements - dankwoord	217
	List of publications	219
	Curriculum Vitae	222