# CONTENTS

**Preface**

**Chapter one**  
Introduction, aim and outline of the thesis.

**Chapter two**  
A case of New Delhi metallo-beta-lactamase 1 (NDM-1)-producing *Klebsiella pneumoniae* with putative secondary transmission from the Balkan region in the Netherlands.  
*Antimicrob Agents Chemother.* 2012;56:2790-1

**Chapter three**  
Unit closure due to an outbreak of multidrug-resistant *Acinetobacter baumannii*: deploying a combat support hospital as a temporary intensive care unit  
*Submitted for publication*

**Chapter four**  
Emergence of colistin resistance in Enterobacteriaceae after the introduction of selective digestive tract decontamination in an intensive care unit.  

**Chapter five**  
Genomic characterization of colistin heteroresistance in *Klebsiella pneumoniae* during a nosocomial outbreak.  
*Antimicrob Agents Chemother* 2016;60:6837-6843

**Chapter six**  
Plasmid-mediated AmpC: prevalence in community-acquired isolates in Amsterdam, the Netherlands, and risk factors for carriage.  

**Chapter seven**  
Impact of single room design on the spread of multidrug resistant bacteria in an intensive care unit.  
*Antimicrobial Resistance & Infection Control* 2017;6:117
Chapter eight
General discussion and future directions

Addendum
Summary in English 139
Summary in Dutch / Nederlandse samenvatting 145
Summary in Arabic / ملخص في اللغة العربية 151
Summary in Hebrew / תקציר עברית 157
Acknowledgements / Dankwoord 163
Curriculum Vitae 169
List of publications 173