



### University of Groningen

Optimizing emergency care for older patients: exploring disease presentation and vulnerability identification

Calf, Agneta

DOI:

10.33612/diss.1086364019

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version
Publisher's PDF, also known as Version of record

Publication date: 2024

Link to publication in University of Groningen/UMCG research database

Citation for published version (APA):

Calf, A. (2024). *Optimizing emergency care for older patients: exploring disease presentation and vulnerability identification.* [Thesis fully internal (DIV), University of Groningen]. University of Groningen. https://doi.org/10.33612/diss.1086364019

Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

The publication may also be distributed here under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license. More information can be found on the University of Groningen website: https://www.rug.nl/library/open-access/self-archiving-pure/taverneamendment.

Take-down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): http://www.rug.nl/research/portal. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

Download date: 16-06-2025

# Optimizing emergency care for older patients: exploring disease presentation and vulnerability identification

Agneta H. Calf



## Optimizing emergency care for older patients: exploring disease presentation and vulnerability identification

Agneta H. Calf

This study was conducted within the Health in Context Research Institute of the University Medical Center Groningen (UMCG) and under auspices of the research program Value, Affordability & Sustainability (VALUE). The printing of this thesis was financially supported by the Graduate School of Medical Sciences (GSMS) and the University of Groningen.				
Design & layout	Bianca Pijl, www.pijlldesign.nl Groningen, the Netherlands			
Printed by	Ipskamp Printing Enschede, the Netherlands			
© Copyright: 2024 A.H. Calf, Groningen, the Netherlands All rights reserved. No part of this thesis may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, without prior written permission of the author, or when appropriate, of the publishers of the publications included in this thesis.				



### Optimizing emergency care for older patients: exploring disease presentation and vulnerability identification

### Proefschrift

ter verkrijging van de graad van doctor aan de Rijksuniversiteit Groningen op gezag van de rector magnificus prof. dr. ir. J.M.A. Scherpen en volgens besluit van het College voor Promoties.

De openbare verdediging zal plaatsvinden op

woensdag 23 oktober 2024 om 11.00 uur

door

Agneta Hendrika Calf

geboren op 2 mei 1987

### **Promotores**

Prof. dr. B.C. van Munster Prof. dr. J.C. ter Maaten Prof. dr. S.E.J.A. de Rooij

### Beoordelingscommissie

Prof. dr. M.H. Blanker Prof. dr. R.C. Oude Voshaar Prof. dr. H.A.H. Kaasjager

### Paranimfen

Dr. M.E.A. van Eersel M.A. Pouw

### **TABLE OF CONTENTS**

Chapter 1	General introduction	
	Part 1 - Altered disease presentation in older Emergency Department patients	
Chapter 2	A closer look at atypical disease presentation in older medical patients in the Emergency Department: a prospective cohort study	23
Chapter 3	Additional value of geriatric parameters to Quick Sepsis Related Organ Failure Assessment score in older Emergency Department patients with a suspected infection: post-hoc analysis of a prospective observational study	37
	Part 2 - Screening in older Emergency Department patients	
Chapter 4	Clinical impression for identification of vulnerable older patients in the Emergency Department	57
Chapter 5	Screening instruments for cognitive impairment in older patients in the Emergency Department: a systematic review and meta-analysis	71
Chapter 6	Diagnostic accuracy of the Dutch version of the 4AT for delirium detection in a mixed patient population and setting	97
Chapter 7	Summary, general discussion and future perspectives	109
Chapter 8	Summary in Dutch – Nederlandse samenvatting	123
Appendices	Acknowledgements – Dankwoord Curriculum vitae List of publications	131 133 137 139

