



Universiteit
Leiden
The Netherlands

Unravelling narcolepsy : from pathophysiology to measuring treatment effects

Heide, A. van der

Citation

Heide, A. van der. (2017, May 24). *Unravelling narcolepsy : from pathophysiology to measuring treatment effects*. Retrieved from <https://hdl.handle.net/1887/49010>

Version: Not Applicable (or Unknown)

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/49010>

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

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/49010> holds various files of this Leiden University dissertation.

Author: Heide, A. van der

Title: Unravelling narcolepsy : from pathophysiology to measuring treatment effects

Issue Date: 2017-05-24

Unravelling narcolepsy

From pathophysiology to measuring treatment effects

Astrid van der Heide

The research described in this thesis was performed at the Department of Neurology and Clinical Neurophysiology of the Leiden University Medical Center, Leiden, the Netherlands.

Cover	Marthe Kalkhoven Marthe Kalkhoven Illustraties
Layout	Renate Siebes Proefschrift.nu
Printed by	Ridderprint, Ridderkerk
ISBN	978-94-90791-55-1

© 2017 Astrid van der Heide

All rights reserved. No part of this book may be produced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior permission of the author, or, when appropriate, of the publishers of the publications.

Unravelling narcolepsy

From pathophysiology to measuring treatment effects

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
te verdedigen woensdag 24 mei 2017
klokke 11.15 uur

door

Astrid van der Heide

geboren te Leeuwarden
in 1984

Promotor	Prof. dr. J.G. van Dijk
Copromotor	Dr. G.J. Lammers
Leden promotiecommissie	Prof. dr. F.H.J. Claas Dr. S. Overeem (Radboudumc, Nijmegen en Technische Universiteit Eindhoven) Prof. dr. R.Q. Hintzen (Erasmus MC, Rotterdam) Prof. dr. M.J. Jager

CONTENTS

Chapter 1	General introduction	7
Chapter 2	HLA dosage effect in narcolepsy with cataplexy	37
Chapter 3	Immunohistochemical screening for antibodies in recent onset type 1 narcolepsy and after H1N1 vaccination	51
Chapter 4	The effects of sodium oxybate on core body and skin temperature regulation in narcolepsy	63
Chapter 5	Core body and skin temperature in type 1 narcolepsy in daily life: effects of sodium oxybate and prediction of sleep attacks	83
Chapter 6	Comparing treatment effect measurements in narcolepsy: the Sustained Attention to Response Task, Epworth Sleepiness Scale and Maintenance of Wakefulness Test	107
Chapter 7	Summary, conclusions and future perspectives	127
Chapter 8	Samenvatting, conclusies en toekomstperspectieven	137
	About the author	149
	Curriculum vitae	150
	List of publications	151