



Universiteit  
Leiden  
The Netherlands

## **Harsh discipline in toddlerhood : A longitudinal study on maternal physiological and behavioral predictors**

Joosen, K.J.

### **Citation**

Joosen, K. J. (2012, November 22). *Harsh discipline in toddlerhood : A longitudinal study on maternal physiological and behavioral predictors*. Retrieved from <https://hdl.handle.net/1887/20154>

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/1887/20154>

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

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/20154> holds various files of this Leiden University dissertation.

**Author:** Joosen, Katharina Jacobina

**Title:** Harsh discipline in toddlerhood. A longitudinal study on maternal physiological and behavioral predictors

**Issue Date:** 2012-11-22

## Harsh discipline in toddlerhood

A longitudinal study on maternal physiological  
and behavioral predictors

Printed by Mostert en van Onderen, Leiden  
Cover design by Katharina Joosen

© 2012, Katharina J. Joosen, Leiden University

All rights reserved. No parts of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, mechanically, by photocopy, by recording, or otherwise, without the prior permission from the author.

# Harsh discipline in toddlerhood

## A longitudinal study on maternal physiological and behavioral predictors

Proefschrift

ter verkrijging van  
de graad van Doctor aan de Universiteit Leiden,  
op gezag van Rector Magnificus prof.mr. P.F. van der Heijden,  
volgens besluit van het College voor Promoties  
te verdedigen op donderdag 22 november 2012  
klokke 10.00 uur

door

Katharina Jacomina Joosen

geboren te Tilburg  
in 1981

## Promotiecommissie

*Promotores:*

Prof. dr. J. Mesman  
Prof. dr. M. H. van IJzendoorn  
Prof. dr. M. J. Bakermans-Kranenburg

*Overige leden:*

Prof. dr. F. Juffer  
Prof. dr. L. R. A. Alink  
Prof. dr. C. Schuengel (Universiteit van Amsterdam)



This research was conducted with grants from the Rommert Casimir Institute (Research Institute of Education and Child Studies at Leiden University, the Netherlands), and by The Netherlands Organization for Scientific Research (NWO) in the form of a VENI grant awarded to Judi Mesman. Support from the European Research Council (Starting Grant to Judi Mesman), and NWO (VIDI and VICI to Marian Bakermans-Kranenburg, and SPINOZA Prize to Marinus van IJzendoorn), is gratefully acknowledged.

# Contents

1. Introduction	7
2. Physiological reactivity to infant crying and observed maternal sensitivity	13
3. Maternal sensitivity to infants in various settings predicts harsh discipline in toddlerhood	25
4. Predicting harsh discipline of infants: Overreactive sympathetic nervous system responses to repeated infant crying predict maternal harsh discipline	41
5. General discussion	57
References	65
Samenvatting (Summary in Dutch)	75
Dankwoord (Acknowledgements)	81
Curriculum Vitae	83

