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Universiteit Leiden



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**Title:** Non-invasive monitoring of pharmacokinetics and pharmacodynamics for pharmacological drug profiling in children and adolescents

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## Stellingen behorende tot het proefschrift

### NON-INVASIVE MONITORING OF PHARMACOKINETICS AND PHARMACODYNAMICS FOR PHARMACOLOGICAL DRUG PROFILING IN CHILDREN AND ADOLESCENTS

*Met betrekking tot het onderwerp van het proefschrift:*

- 1 Pediatric research in areas of real clinical need may be hampered as an unintended side effect of the European Pediatric Regulation.
- 2 Even in areas of extensive pediatric research like ADHD, optimization of treatment recommendations is hampered by a lack of adequately determined pharmacological profiles or PK/PD-relationships.
- 3 Saliva sampling is a promising method for determining pharmacokinetic drug profiles in children and adolescents and may stimulate trials in pediatric pharmacology.
- 4 Non-invasive CNS profiling has the potential to evaluate age-dependent differences in PK and PD, to distinguish a drug's stimulant or sedative properties and to stimulate formulation research in pediatrics.

*Met betrekking tot het vakgebied van het onderwerp van het proefschrift (pediatrische psychofarmacologie):*

- 5 It will probably not come true that conceptual models derived from Alzheimer's disease should positively influence drug development programs for neurodevelopmental disorders at the other end of the age spectrum. (As predicted by: JS March & JM Fegert. *Drug development in pediatric psychiatry: current status, future trends. Child Adolesc Psychiatry Ment Health* 2012;6:7)

6. Expert centralised centers for sophisticated bioassays are needed to facilitate pediatric medicines research, as sensitive laboratory methods such as LC-MS/MS are costly to set up.

7 Melatonin preparations should not be sold freely as health supplements, as the quality of several over-the-counter melatonin preparations is not guaranteed. Actions by the authorities against this are warranted.

8 “Onderzoekers kunnen vaak wel lastige dingen onderzoeken, maar iets lastigs uitleggen is een ander vak.”  
(Jelle Reumen in *Het raadsel van alles wat leeft*)

*Overige stellingen:*

9 “If people do not believe that mathematics is simple, it is only because they do not realize how complicated life is.”  
(Neumann János)