Continuous glucose and exhaled breath analysis in the Intensive Care Unit
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Citation for published version (APA):
This thesis covers studies on continuous glucose and exhaled breath analysis in the ICU. It is divided into three parts. First, we aimed to compare and test different (continuous) blood glucose measurement methods (part I). Second, we aimed to predict blood glucose levels by analysis of exhaled breath in intubated and ventilated ICU patients (part II). Finally, we aimed to investigate further development of exhaled breath analysis techniques and data analysis methods (part III). We hope that the results of the research in this thesis will enhance the understanding of (continuous) blood glucose measurements and exhaled breath analysis in ICU patients.
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ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad van doctor
aan de Universiteit van Amsterdam
op gezag van de Rector Magnificus
prof. dr. ir. K.I.J. Maex
ten overstaan van een door het College voor Promoties ingestelde commissie,
in het openbaar te verdedigen in de Agnietenkapel
op donderdag 26 oktober 2017, te 14.00 uur
door Jan Hendrik Leopold
geboren te Leiden
Promotiecommissie:

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Faculteit: Faculteit der Geneeskunde
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