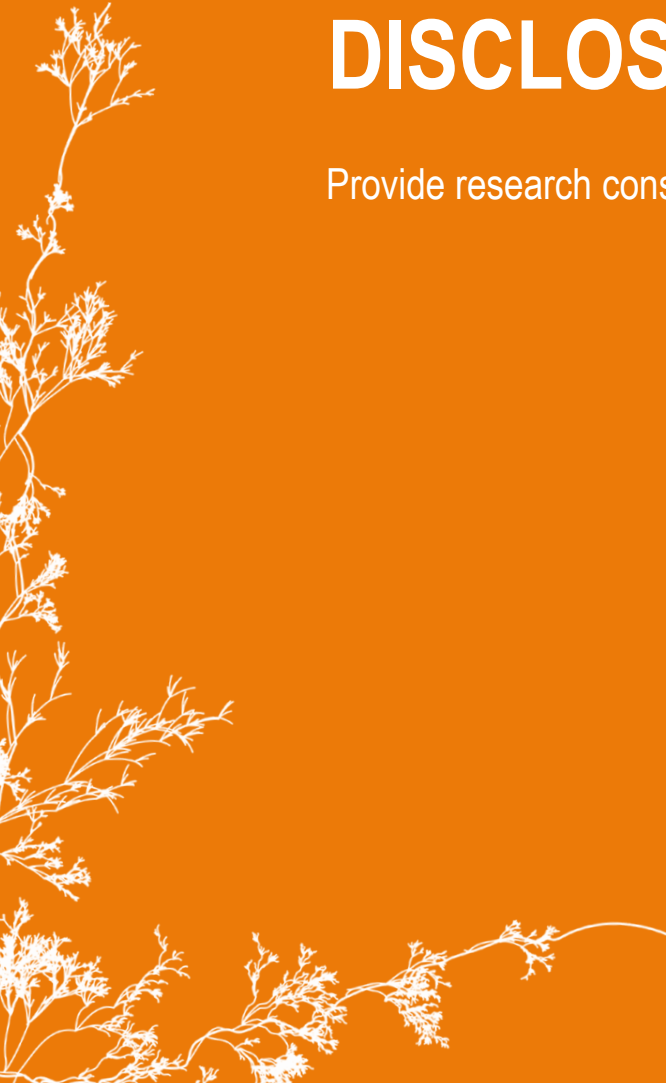


The added value of the Hypotension Prediction Index

Marijn P. Mulder, MSc
UT-CRPH

DISCLOSURE

Provide research consultancy to Maquet Critical Care AB, but do not receive personal fees



HYPOTENSION

- Mean arterial pressure (MAP) < 65 mmHg
- Intraoperative problem
- Causes post-operative complications to heart, kidneys, brain
- Blood pressure monitoring
- Ideally: proactive treatment

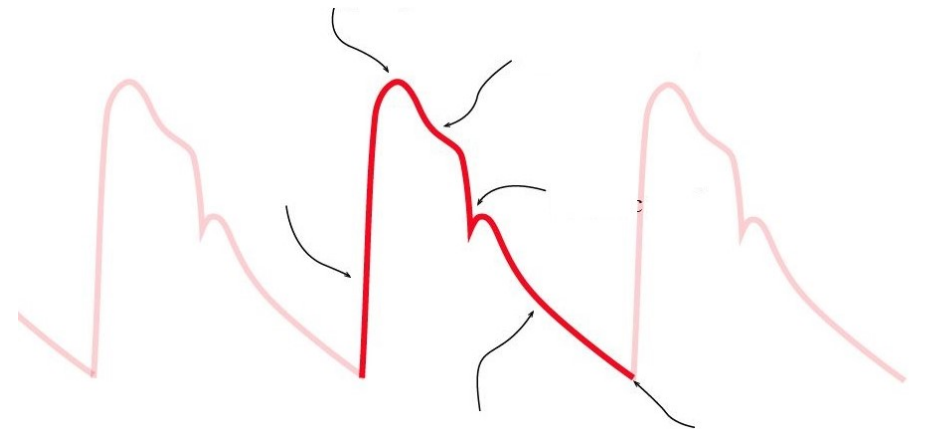


MAP = Mean Arterial Pressure
HPI = Hypotension Prediction Index

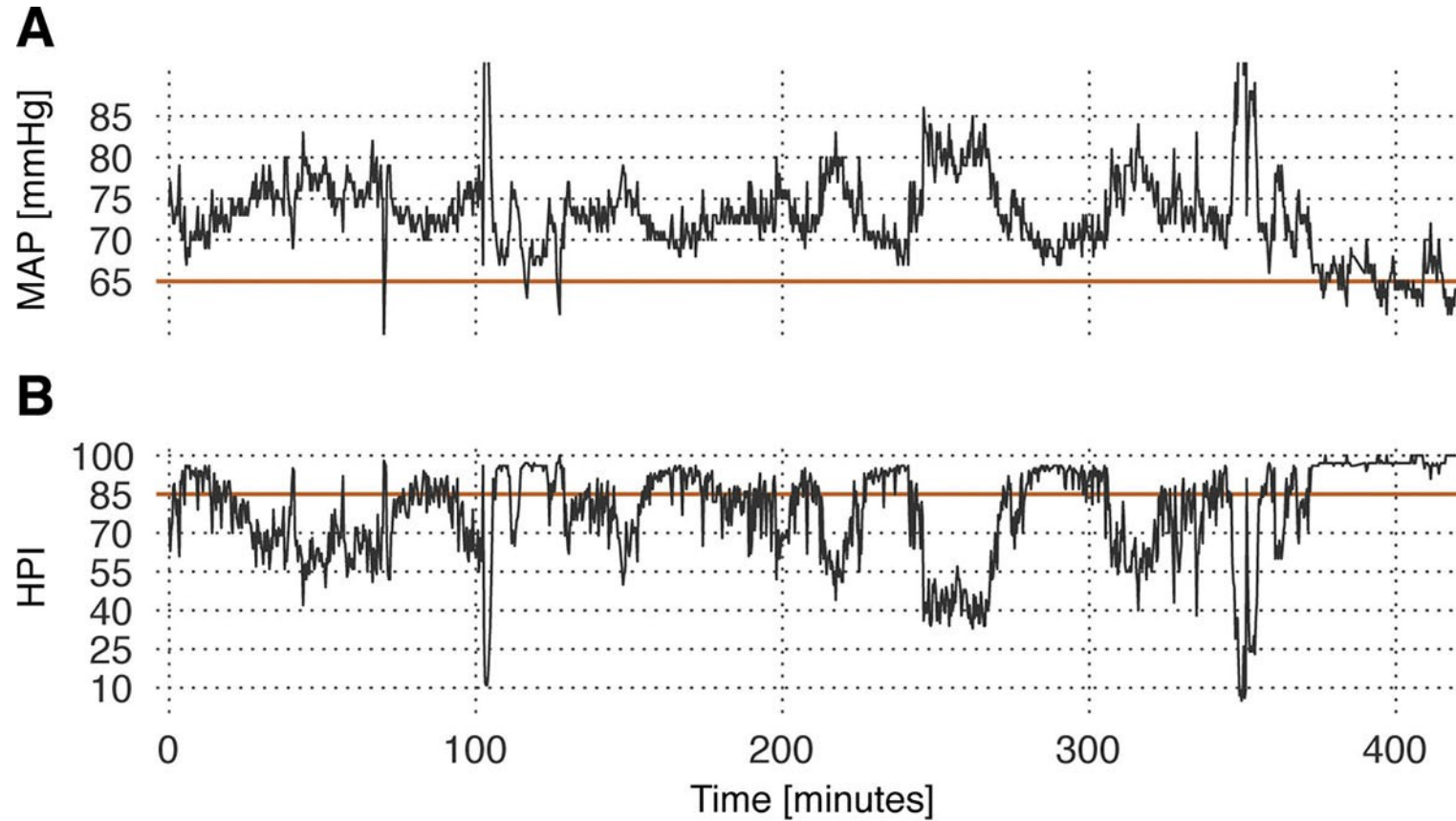
HPI



- Hypotension Prediction Index
- Machine learning algorithm
- Based on arterial waveform characteristics
- Predict hypotension 15 min in advance



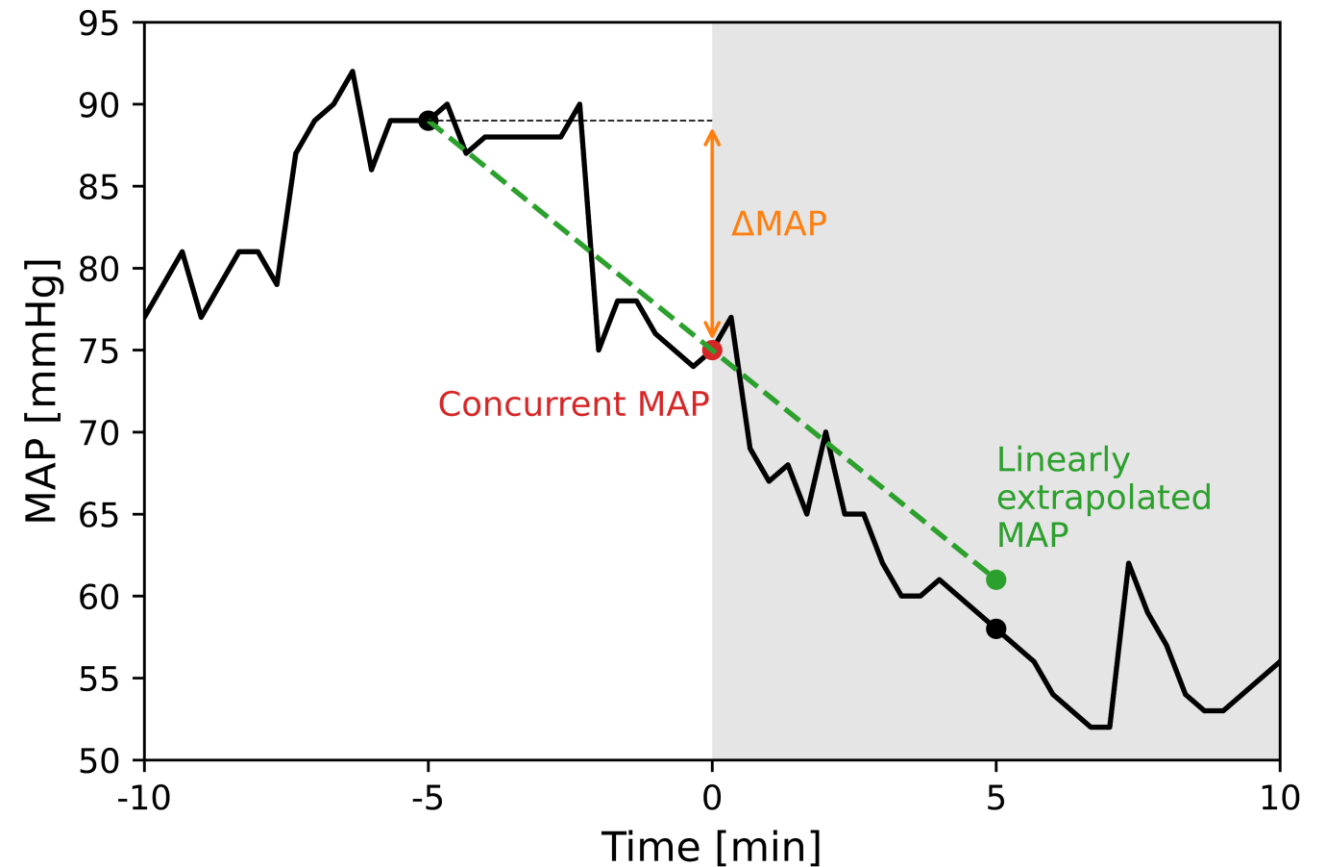
MIRRORING EFFECT



STUDY DESIGN

- Retrospective study
- Anesthesiology @ MST

- HPI & MAP
 - Correlation signals
 - Agreement alarms
 - Predictive performance



STUDY DESIGN

- Slides 7-11 are deleted due to unpublished data of the presenter



Let's discuss

Marijn Mulder (m.p.mulder-1@utwente.nl)

Research team:

Mirjam Harmannij-Markusse (UT-TM)

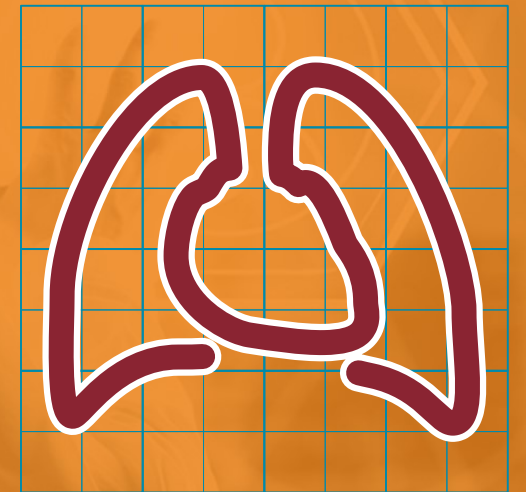
Libera Fresiello (UT-CRPH)

Dirk W. Donker (UT-CRPH)

Jan-Willem Potters (MST)



Medisch Spectrum Twente
een santeon ziekenhuis



CRPH cardiovascular
respiratory
physiology