

No financial interests

DISCLOSURE SLIDE

Introduction

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- Graduated Biomedical Engineering University of Twente 2020
- R&D/Business Development LipoCoat
- R&D Engineer Blood & Fluid Warming The Surgical Company (since 2022)



The Surgical Company

Patient Temperature Management

- Founded in 1993 Patient Temperature Management since 2007 (The 37Company)
- HQ in Amersfoort, dedicated production in Almelo
- ~100 employees
- Global distribution in 55 countries
- Global KOL network with doctors and nurses
- Solutions for patient warming

'Specialization through innovation'





Innovation

Collaboration with the University of Twente

- Spin-off collaboration since beginning
- Facility use since several years



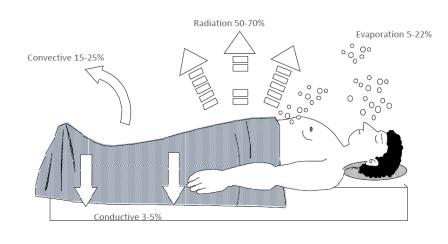
Definition and complications

- Core body temperature 36.0 37.5 °C
- Changes in core body temperature
 - Hyperthermia
 37.5°C

 Normothermia

 Hypothermia

- Patient peri-operative heat loss
- IV delivery 'cold' blood and fluids



- Complications
 - Discomfort
 - Shivering
 - Increased infection risk
 - Cardiac problems
 - Central nervous system
 - Increased bleeding time
 - Increased mortality



Our product portfolio – product development











Our product portfolio











Innovation – case study

Collaboration with the University of Twente

- Research question: 'Does the use of thermal heat blankets lead to changes in X-ray image quality?'
- OR table of a Siemens Artis Pheno Hybrid operating room
- Patient phantom







 Conclusion: Our thermal heat blanket does not lead to a reduced X-ray image quality



Our product portfolio









Innovation – Case study

Usability engineering

- Research objective: 'Usability assessment of the Fluido Compact in the operating room'
- Improve mounting of the Fluido Compact to be as close to the patient as possible
- Usability testing at UT operating room
- Conclusion: development of a new mount that can be used at the patient bedside





TechMed Innovation Hub

QUESTIONS?

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Key takeaways

- Collaboration can speed up innovation
- Facilities help in more effective product development