

Nightingale H2020 Conference

Remote Wireless Patient Monitoring

Challenges, Experiences, and What's Next

Thursday 16th September 2021

Virtual Afternoon Conference

**FREE TO
ATTEND**

Speakers include:

Cor J. Kalkman

*Professor of Anaesthesiology
Research and Clinical
Epidemiologist
University Medical Center
Utrecht*

David Konrad

*Managing Director, Perioperative
Medicine and Intensive Care
Karolinska University Hospital,
Stockholm, Sweden*

John Welch

*Consultant Nurse, Critical
Care & Critical Care Outreach,
University College London
Hospitals, UK*



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 727534

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Five years ago, clinical specialists from five leading European hospitals funded by European Commission pre-commercial procurement arrangements challenged industry to innovate and develop wireless wearable sensor systems and smart analytics to allow remote patient monitoring that provides early warning of clinical deterioration.

As well as challenging industry, we challenged our own hospital teams with the implementation and testing of the new systems.

It is now time to share our experiences and lessons with the world. We will not only reach out to clinicians and industry but also to organizations enabling access to the market of these types of medical devices. We will tell you about feedback from patients and users, the challenges in development and implementation, and what we believe are the opportunities and requirements for safe and successful use of wireless monitoring.

This conference will enable you to:

- Know the current status of wireless patient monitoring
- Learn about the impact of wireless monitoring for patients and clinical practice
- Identify risks and challenges of developing and implementing wireless monitoring systems
- (Re)consider the evidence of clinical performance of monitoring systems
- Create awareness of the expectations of CE marked monitoring systems
- Consider Pre-Commercial Procurement for innovation in healthcare
- Join the discussion on the reimbursement of innovative monitoring systems
- Join the discussion on the next steps and future of smart monitoring

UK: 13.00 / CET: 14.00 Welcome and Introduction: Summary of the Nightingale project

Professor Cor J. Kalkman

Professor of Anaesthesiology Research and Clinical Epidemiologist
University Medical Center Utrecht

- how clinicians challenged industry to revolutionise patient monitoring
- the Nightingale roadmap
- our experience with Pre-Commercial Procurement

UK: 13.20 / CET: 14.20 How wireless monitoring systems were tested - and the results

Dr Martine Breteler Technical Physician, Department of Anesthesiology, Intensive Care & Emergency Medicine, University Medical Center Utrecht

with **Lisa Hartung** Resident Physician, Department of Intensive Care Medicine, PhD student, University Hospital RWTH Aachen

and **Ellen Leigard** 5th year resident in Anesthesiology and Intensive Care, PhD student, Karolinska University Hospital, Stockholm, Sweden

- Nightingale phase 2 testing and our learning
- Nightingale phase 3 testing and our learning

UK: 13.45 / CET: 14.45 The Nightingale project successes and challenges

Professor Cor J. Kalkman

Professor of Anaesthesiology Research and Clinical Epidemiologist
University Medical Center Utrecht

- did we achieve what we wanted to achieve?

UK: 13.50 / CET: 14.50 Questions & Answers

UK: 14.00 / CET: 15.00

Comfort Break

UK: 14.15 / CET: 15.15 What we learnt about wireless monitoring in practice

Lisa Hartung Resident Physician, Department of Intensive Care Medicine, PhD student and **Dr Sebastian Fritsch** Specialist Anaesthesiology, Department of Intensive Care Medicine, University Hospital RWTH Aachen

Prof Frank Rademakers Cardiology and Former Chief Medical and Technology/Innovation Officer, UZ KU Leuven, Belgium

John Welch Consultant Nurse, Critical Care & Critical Care Outreach

and **Georgia Bercades** HEE/NIHR Pre-doctoral Research Fellow; Senior Research Nurse, Critical Care, University College London Hospitals, UK

David Konrad Managing Director, Perioperative Medicine and Intensive Care

and **Ellen Leigard** 5th year resident in Anesthesiology and Intensive Care, PhD student, Karolinska University Hospital, Stockholm, Sweden

Dr Martine Breteler Technical Physician, Department of Anesthesiology, Intensive Care & Emergency Medicine, University Medical Center Utrecht

- lessons from the Nightingale consortium hospitals
- Aachen: Modified technical infrastructure & cyber security challenges
- Leuven: Possibilities for integration into the Hospital Information System and into the clinical workflow
- London: patient and user perspectives
- Stockholm: impact on clinical practice
- Utrecht: Reliability of sensor systems and the need for clinical testing

UK: 15.15 / CET: 16.15 The regulatory landscape of developing and implementing innovative monitoring systems

Dr Alan Fraser

Consultant Cardiologist, University Hospital of Wales, Cardiff, UK and Chairman, Task Force on Regulatory Affairs and Medical Devices of the Biomedical Alliance in Europe

- what does the CE marking say about a product's safety and performance?
- what will change due to the MDR?

UK: 15.30 / CET: 16.30 Explanation of breakout sessions

Prof Frank Rademakers

Cardiology and Former Chief Medical and Technology/Innovation Officer
UZ KU Leuven, Belgium

- introduction for the breakout sessions

UK: 15.40 / CET: 16.40 Comfort Break

UK: 15.55 / CET: 16.55

Breakout Sessions

Breakout 1 - Clinical perspectives

John Welch Consultant Nurse, Critical Care & Critical Care Outreach, University College London Hospitals, UK with **Ellen Leigard** 5th year resident in Anesthesiology and Intensive Care, PhD student, Karolinska University Hospital, Stockholm, Sweden and **Lisa Hartung** Resident Physician, Department of Intensive Care Medicine, PhD student, University Hospital RWTH Aachen

- we need wireless monitoring in all wards; some wards; at home after discharge as the only valid way for reliable detection of complications and deterioration
- wireless monitoring will be well received by all patients
- wireless systems with integrated deterioration scores are required to tackle alarm fatigue

Breakout 2 - Technical and commercial perspectives

Dr Sebastian Fritsch Specialist Anaesthesiology, Department of Intensive Care Medicine, University Hospital RWTH Aachen with **Dr Martine Breteler** Technical Physician, Department of Anesthesiology, Intensive Care & Emergency Medicine, University Medical Center Utrecht and **Dr David Brealey** Consultant in Intensive Care Medicine, University College London Hospitals, UK

- there is effective cooperation between manufacturers and clinicians during the development of monitoring systems to result in successful products
- tests with the intended patient population is a must as part of clinical validation

Breakout 3 - Regulatory & economic perspectives

Prof Frank Rademakers Cardiology and Former Chief Medical and Technology/Innovation Officer, UZ KU Leuven, Belgium with **Martina Ahlberg** Innovation Manager, Karolinska University Hospital, Stockholm, Sweden and **Gerben Bekema** Sr. Procurement Officer, University Medical Center Utrecht

- evidence of clinical performance should include testing with the intended patient population before a system can be CE marked
- reimbursement is required to introduce wireless monitoring at scale
- pre-commercial procurement is the way to go for healthcare innovation

UK: 16.40 / CET: 17.40 Closing Remarks

David Konrad

Managing Director, Perioperative Medicine and Intensive Care
Karolinska University Hospital, Stockholm, Sweden

- summary of break out sessions
- conference closing remarks

UK: 17.00 / CET: 18.00 Close

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Nightingale

Smart monitoring, safer care

This conference has been developed by Nightingale

The Nightingale vision is to challenge industry to improve patient safety by developing systems that can:

- accurately identify patients at risk of deterioration
- ensure timely recognition and communication of deterioration
- improve patient safety in hospital and after discharge
- reduce the length of hospital stays and readmissions
- analyse collected 'big data' to increase understanding of treatment of specific patient groups
- create a record that can ensure learning from clinical responses to deterioration
- promote active patient involvement in care

For more information on the Nightingale [Click Here](#)

For more information contact Healthcare Conferences UK on **01932 429933** or email jayne@hc-uk.org.uk

Venue

This virtual conference will include a live stream on Zoom, interactive breakout sessions and resources available on a secure landing stage for three months after the event date.

Date

Thursday 16th September 2021

Conference Fee

This conference is free to attend.

Confirmation of Booking

All bookings will be confirmed by email, unless stated otherwise. Please contact us if you have not received confirmation 7 days after submitting your booking. The access code for the virtual portal will be sent one week before the conference.

Exhibition

If you are interested in exhibiting at this event, please contact Carolyn Goodbody on 01932 429933, or email carolyn@hc-uk.org.uk

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