

Schleswig-Holstein Campus Lübeck Klinik für Anästhesiologie

Direktor: Prof. Dr. med. Peter Schmucker

# International Expert Meeting The ABC(DE) of Breath Analysis of Propofol

Luebeck, Friday June 13th to Saturday June 14th, 2008

## **Program**

## Friday June 13th

14:00 Introduction

Gehring, Luebeck, Germany

14:10 – 15:25 A. Analytics: Methods, Technologies, Standardization

#### Systems for continuous measurement

- Ion Molecule Reaction Mass Spectrometry (IMR-MS)
   Schelling, Munich, Germany 15 min.
- 2. Protonen Transfer Reaction Mass Spectrometry (PTR-MS)

Takita, Japan – 15 min.

3. Electrochemical Sensor

Hengstenberg, Luebeck, Germany – 15 min.

#### What offers the step-by-step discontinuous measurement?

4. GC MS: Is this the reference?

Dibbelt, Luebeck, Germany - 15 min.

 SPME - GC/MS - Quantitative assessment of propofol in blood and breath Schubert, Rostock, Germany – 15 min.

**15:25 – 16:15 Discussion and break** 

Coffee break and visit of the industrial exhibition

16:15 – 18:30 B. Basics: The Lung and the Drugs, the Models

#### and the Statistical Analysis

6. The lung as a metabolic and pharmacologically active organ

Boer, Leiden, Netherlands – 30 min.

7. Gas versus condensate: What is measured?

Becher, Berlin, Germany - 15 min.

8. Propofol metabolism in the lung: Any consequences?

Großherr, Luebeck, Germany – 15 min.

9. Assessment of plasma propofol concentrations with PD/PK models – How does it go on and where are the limitations?

Luginbühl, Bern – 25 min.

10. The models, the reality and the news

Fischer, Luebeck, Germany - 20 min.

11. Statistical analysis of propofol monitoring in respiratory gas: Is there a correlation between breath gas and plasma?

Igl, Luebeck, Germany – 15 min.

#### 18.30 - 19.30 Discussion and break

Coffee break and visit of the industrial exhibition

Social evening

#### Saturday June 14th

#### 9:00 – 10:00 C. Criteria and standardization in breath analysis of propofol

- 12. Which criteria/standards are valid for the general breath gas measurement? Gehring, Luebeck, Germany- 15 min.
- 13. Impact of sampling procedures onto results in breath analysis

Miekisch, Rostock, Germany - 15 min.

14. The breath gas matrix and artificial ventilation

Hengstenberg, Luebeck, Germany – 15 min.

15. The way from the alveolae to the sensor: Where do the tricks lie?

Praun, Absam, Austria – 15 min.

#### 10:00 - 10:40 Discussion and break

Coffee break and visit of the industrial exhibition

10.40 – 12.25 **D. Discussion: Clinical View** 

- 16. Anesthesia and intensive care medicine: pathological modifications of the lung and influence on the measurement of the substances in the breath gas Geßner, Leipzig, Germany 30 min.
- 17. Is there a clinical benefit of propofol monitoring in respiratory gas?
  - I. In combination with the Bispectral Index? (BIS)

Manberg, Norwood, USA - 20 min.

II. In pediatric patients

Hornuss, Munich, Germany - 20 min.

III. During cardiac surgery and in the ICU

Großherr, Luebeck, Germany – 15 min.

18. Is breath analysis of propofol a GPS for the Smart Pilot?

Schumacher, Bern, Switzerland - 20 min.

12.25 – 13.00 **E. The End** 

Final resumee

Gehring, Luebeck, Germany

Closing with coffee support

#### **General information**

Organization: Dr. med. M. Großherr

Prof. Dr. med. H. Gehring

Location: Medizinisches Laserzentrum

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23562 Lübeck

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