

COEUR Course Intensive Care Research

Course organizers: Prof. Dr. J. Bakker and Prof. Dr. A.B.J. Groeneveld

Aims of the program

The program will enhance the PhD student's knowledge on:

- ✓ Circulation and microcirculation of the ICU patient
- ✓ How to do research in emergency critical care
- ✓ Measurement of mitochondrial oxygen tension in-vivo
- ✓ New techniques of lung function monitoring at the bedside
- ✓ Heart-lung interaction: effect of mechanical ventilation
- ✓ Early detection of kidney failure

In addition, the PhD student will learn where in the building expertise on these subjects is available.

Lectures will be given on Thursday and Friday. Research papers for self-study are included in the course material and should be studied in advance (estimated study load: 16 hours).

Towards improving organ function on the ICU

Thursday Morning

09:00-09:30 Coffee/tea

09:30-09:40 Welcome and Introduction to COEUR course
Prof. ABJ Groeneveld

09:40-10:10 Mitochondrial PO₂;
Dr. EG Mik

10:10-10:40 Assessing the microcirculation
Drs. E.Klijn

10:40-11:10 Clinical assessment of peripheral circulation in the ICU
Drs. AA Lima

11:10-11:40 Coffee/tea

11:40-12:10 Microcirculatory resuscitation
Drs. M. van Genderen

12:10-12:40 New development in hemodynamic monitoring
Prof. J Bakker

Thursday Afternoon

13:40-14:10 PAC and PiCCO
Prof. ABJ Groeneveld

14:10-14:40 Renal microvascular distress
Prof. C Ince

- 14:40-15:10 Do we need biomarkers?
Drs. HRH de Geus
- 15:10-15:40 Coffee/tea
- 15:40-16:10 Ventilator-induced kidney injury, VIKI
J van den Akker
- 16:10-16:40 Long term effects of AKI
S Stads

Friday Morning

- 09:00-09:30 Coffee/tea
- 09:30-10:00 The heart in sepsis
Prof. ABJ Groeneveld
- 10:00-10:30 Hypothermia after cardiac arrest
Drs. RJ. van Thiel
- 10:30-11:00 Cardiopulmonary interaction
Dr. D dos Reis Miranda
- 11:00-11:30 Coffee/tea break
- 11:30-12:00 Assessing pulmonary ventilation and perfusion at the bedside
Dr. DAMP Gommers
- 12:00-12:30 Lung recruitment
P Blankman

Lunch break

Friday Afternoon

- 13:30-14:00 Cardiocerebral interaction
Dr. M van der Jagt
- 14:00-14:30 Stem cells for sepsis-induced organ dysfunction
Dr. N Kusadasi
- 14:30-15:00 How to increase organ donation
Dr. EJO Kompanje
- 15:00-15:30 Coffee/tea break
- 15:30-16:00 Selftest and evaluation