CEREBRAL AUTOREGULATION

2nd International CARnet Conference

23 and 24 September, 2012

UMC St Radboud
Welcome to the second international CARnet conference. CARnet, the cerebral autoregulation network, is an international network that brings together researchers and clinicians with an interest in the regulation of cerebral blood flow. After the highly successful first meeting held at Imperial College, London (July 2011), CARnet organizes this second conference in Nijmegen, The Netherlands. Join us (again) to meet, discuss and exchange experience and results with colleagues in the field. The following experts have already expressed their intention to attend: Ronney Panerai, Vera Novak, Stephen Payne, Rong Zhang, Philip Ainslie, Marek Czosnyka, David Simpson, Shieak Tzeng, Georgios Mitsis, Gorm Greisen, Johannes van Lieshout, Elsa Azevedo, Majon Muller, Matthias Günther, and the list is growing.

The conference will include sessions on clinical applications, physiology of cerebral haemodynamics, techniques for measurement (TCD, NIRS, MRI), modeling and data-analysis, covering pressure autoregulation, vasomotor reactivity and related issues. Clinical applications will address the full spectrum from neonatal monitoring to dementia research, and include the clinical specialities of neonatology, stroke, intensive care, neurotrauma, ageing and degenerative diseases.

Please visit the new CARnet website at http://www.car-net.org for further details.

SUBMIT YOUR CONTRIBUTION TO THE CONFERENCE

Deadline: June 30, 2012

Please submit your structured abstract (word count ≤ 300), and indicate your preference for poster or oral presentation. Both days will feature a one hour poster session, which can be expanded with a 1.5 hr plenary poster session depending of the number of submitted posters. Abstracts should be sent to carnetsymposium2012@gmail.com.
Sunday 23rd September, 2012

10:00  Registration

10:50  Opening by conference chair
      J. Claassen

11:00  Clinical application part 1: Cerebral hemodynamics in neonatal and neurosurgical critical care
      Gorm Greisen (Denmark), Marek Czosnyka (UK)

12:30  Lunch and Poster Session

      Poster Session (including poster pitch) and opportunity for exchange and networking  13.00-14.00

14:00  Clinical application part 2: Cerebral autoregulation in mild cognitive impairment
      Rong Zhang (USA)

      Functional TCD and visual evoked flow
      Elsa Azevedo (Portugal)

15:30  Tea break

16:00  Clinical application part 3: Cerebrovascular control in small vessel disease
      Johannes van Lieshout (NL)

      Effects of hypertension and antihypertensive treatment on brain perfusion: the SMART-MRI study
      Majon Muller (NL)

17:30  CARnet-Assembly: open to all participants who are or wish to become involved in CARnet

      Among the topics for discussion:
      - preview of results of the CARnet bootstrap project
      - discussion with centres that have participated in this project
      - next steps for the CARnet bootstrap project

19:00  Conference Dinner (included in registration fee)

      The conference dinner is an excellent opportunity to (re)acquaint with your peers. Dinner is held in Huize Heyendael, a charming mansion located on the University campus, near the conference venue.

Monday 24th September, 2012

08:00  Optional Workshop signal processing for autoregulation estimation
      D. Simpson

08:00  Registration

09:00  Non-stationarity of cerebral blood flow autoregulation: fact or fiction?
      Ronney Panerai (UK)

      TBA
      Shieak Tzeng (New Zealand)

      Alternative methods for brain perfusion measurement
      Stephen Payne (UK)
**Scientific Committee**

**Elsa Azevedo** (Portugal)

**Jurgen Claassen** (Nijmegen, Netherlands), Chair

**Erik Gommer** (Maastricht, Netherlands)

**Johannes van Lieshout** (Amsterdam, Netherlands)

**Ronney Panerai** (Leicester, UK)

**Stephen Payne** (University of Oxford, UK)

**David Simpson** (University of Southampton, UK)

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**Local Organizing Committee**

(Radboud University Nijmegen Medical Centre Nijmegen)

**Ir. A.S.S. van den Abeelen** Researcher, Geriatrics

**Dr. J.A.H.R. Claassen** Geriatrician, Researcher, Geriatrics

**Dr. H.E.A. Dado – van Beek** Resident in Geriatrics, Alzheimer Centre

**Dr. C.W.E. Hoedemaekers** Intensivist, Intensive Care

**Dr. K.D. Liem** Associate Professor, Dept. of Neonatology

**Dr. O. Meulenbroek** Post-doc researcher, coordinator Alzheimer Centre

**Dr. M. Reelick** Post-doctoral Researcher, Geriatrics

**Drs. G.C.M. Claessen** Projectmanager PAO Heyendael

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**Scientific Committee**

10:30 Coffee break

11:00 An overview of methods to study vasomotor reactivity to CO2  
*Philip Ainslie (Canada)*

Advances in MRI perfusion: arterial spin labelling  
*Matthias Günther*

12:30 Lunch in the Museum of Pathology

Poster Session (including poster pitch) and opportunity for exchange and networking 13.00 - 14.00

14:00 CARnet bootstrap project: Results of the multi-centre analysis of the CARnet database  
*Aisha van den Abeelen*

Harmonization of transfer function analysis: towards the CARnet TFA?

The next steps in the Bootstrap project

15:30 Summary and Closure

16:00 Optional social program  
Informal drinks in the historical city center, with a short guided walk and informal dinner

Register here!
Information

Venue
The course will take place at the Radboud University Nijmegen Medical Centre, the Netherlands

Accreditation / certificate
• Accreditation will be requested from ABAN.
• At the end of the course all participants will receive a certificate of attendance.

Registration
• You can register at www.paoheyendael.nl, or click here, where you can also find more details about the programme and registration-options.
• The final programme will be sent out approximately two weeks before the meeting.

Fee
The conference fee is € 300 for both days; for students € 250. This includes coffee breaks, lunches and dinner on Sunday.

Travel info

Hotel accommodations
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This mailing is provided upon instructions from Bureau PAO Heyendael of the Radboud University Nijmegen Medical Centre. If you do not wish to receive mail from us in the future, please contact our secretariat.