Developmental origins of adult disease
– focus on stress response, glucose metabolism, and cardiovascular risk

September 20-22, 2006 in Stockholm · Sweden

Organized by
The Swedish Society of Medicine
The Royal Society of Medicine, UK
Preliminary Programme

**WEDNESDAY, SEPTEMBER 20**

12.00  Registration

13.00  Welcome addresses
Mr Anthony Joyce Cary, CMG, HM Ambassador, Ambassador of the United Kingdom
Anna Engström-Laurent, President of the SSM
Baroness Ilora Finlay, President of the RSM
Peter M Nilsson, Chairman of the Organizing Committee

13.15  State-of-the-Art: The origins of the »fetal origins« hypothesis: How it all started
Chair: Peter M Nilsson, Malmö, Sweden
Speaker: David Barker, Southampton, UK

**Session 1: Review of current knowledge**
Chair: Robin Williamson, Dean of the RSM

14.00  Epidemiological findings – are they consistent?
**Johan Eriksson**, Helsinki, Finland

14.30  The Uppsala Studies on birth weight
**Ilona Koupil**, Stockholm, Sweden

15.00  Coffee

15.30  What can we learn about fetal programming from experimental studies?
**Mark Hanson**, Southampton, UK

16.00  The Dutch Famine and its long-term consequences for adult health
**Tessa Roseboom**, Amsterdam, the Netherlands

16.30  Poster session
Chairs: Agneta Holmäng, Göteborg, Sweden
Denny Vågerö, Stockholm, Sweden

17.30  Classical music performance and reception at the Swedish Society of Medicine.
THURSDAY, SEPTEMBER 21

Session 2: Cardiovascular disease
Chair: Anna Hansell, President RSM Section of Epidemiology, UK

08.30 Blood pressure and hypertension in middle-aged women in relation to weight and length at birth: a follow-up study
   Lena Hulthén, Göteborg, Sweden

09.00 xxxxx
   Mikael Norman, Stockholm, Sweden

09.30 Programming of the cardiovascular system, kidney and the brain
   Keith Godfrey, Southampton, UK

10.00 Cardiorenal destiny: the role of genes and environmental factors
   Lori L Woods, Portland, USA

10.30 Coffee and posters

Session 3: Diabetes mellitus
Chair: Christian Berne, Uppsala, Sweden

11.00 Perinatal determinants of adult diabetes mellitus
   David Dunger, Cambridge, UK

11.30 Experimental IUGR and later development of diabetes
   Susanne Ozanne, Cambridge, UK

12.00 Postnatal exposure, sex steroids, and the metabolic syndrome
   Agneta Holmäng, Göteborg, Sweden

12.30 Lunch

Session 4: Genes or environment – or both?
Chair: Paul Lichtenstein, Stockholm, Sweden

13.30 Adaptation and plasticity – an experimental perspective
   Lorraine E Young, Nottingham, UK

14.00 Adaptation and plasticity – an epidemiological perspective
   David Leon, London, UK

14.30 Swedish twin/family studies of the fetal origins hypothesis
   Sven Cnattingius, Stockholm, Sweden
15.00 Coffee and posters

**Session 5: Fetal programming and stress response**
Chair: Baroness Ilora Finlay, Cardiff, UK

15.30 Epidemiology and potential mechanisms
**David Phillips**, Southampton, UK

16.00 Early life mechanisms – detectable in utero?
**Karel Marsal**, Lund, Sweden

16.30 Glucocorticoid programming
**Jonathan Seckl**, Edinburgh, Scotland

17.00– State-of-the-Art: Social factors in a life course perspective
17.30 Chair: David Barker, Southampton, UK
Speaker: **Denny Vågerö**, Stockholm, Sweden

19.30 Symposium dinner at Nationalmuseum, Stockholm
FRIDAY, SEPTEMBER 22

08.30  State-of-the-Art: The role of the placenta in fetal programming  
Chair: Karel Marsal, Lund, Sweden  
Speaker: Thomas Jansson, Cincinnati, USA

Session 6: Current controversy 1: Is catch-up growth of importance or not?  
Chair: Hugo Lagercrantz, Stockholm, Sweden  
09.00  Pro: The dangerous road of catch-up growth:  
Atul Singhal, London, UK  
09.20  Con: Postnatal growth patterns – a critical view:  
Torsten Tuvemo, Uppsala, Sweden  
09.40  Debate

10.00  Coffee and posters

Session 7: Current controversy 2: Mechanisms linking the environment during development and later disease  
Chair: John Scadding, Associate Dean of the RSM  
10.30  Six speakers are allowed 5 minutes each to present their strongest candidate for a mechanism  
UK speakers: Atal Singhal, Mark Hanson, David Barker  
Swedish speakers: Agneta Holmäng, Ilona Koupil, Lena Hulthén  
11.00  Debate

11.30  Concluding summary: How to take the fetal programming hypothesis further?  
Chair: David Phillips, Southampton, UK  
Speaker: Peter Gluckman, Auckland, New Zealand  
12.00  Poster prizes. Concluding Remarks  
Peter M Nilsson

12.30  Lunch

14.00  Social Programme (optional)
GENERAL INFORMATION

When and Where
September 20-22, 2006, at the Swedish Society of Medicine, Klara Östra Kyrkogata 10, Stockholm, Sweden

Registration
September 1, 2006 is deadline for registration. Please return the registration form to the Swedish Society of Medicine, P.O. Box 738, SE-101 35 Stockholm, Sweden Fax +46 (0)8 440 88 99. Remittance must be in sek, payable to the Swedish Society of Medicine. Please indicate »Berzelius 67« and your name on all money transfers. Personal or company cheques cannot be accepted.

Fees
- Members of the Swedish Society of Medicine: 2 000 SEK/220 EURO
- Other academics: 2 500 SEK/280 EURO
- Academic registrations after September 1, 2006: 3 000 SEK/325 EURO
- Industry: 4 500 SEK/480 EURO (after September 1, 2006: 5 000 SEK/540 EURO)
- Med studs, Ph D students, and post docs: 500 SEK/55 EURO
- Symposium Dinner at the National Museum: 600 SEK/65 EURO

Registration will be confirmed when payment has been received. Conference fees are not refundable for cancellations made after September 1. Congress documents will be handed out to the participants at the registration on September 20.

Posters
Posters based on submitted abstracts will be presented on Sept 20 – please send one page to the symposium secretariat before August 20. The best posters will be rewarded.

Accommodation
A list of hotels situated close to the congress site are available from the symposium secretariat. Please note that reservations are made by the delegate directly to the hotel.

Organizing Committee
Peter M Nilsson, Malmö, Sweden (chairman), Johan Eriksson, Helsinki, Finland; Agneta Holmäng, Göteborg, Sweden; Thomas Jansson, Göteborg, Sweden; Ilona Koupil, Stockholm, Sweden; Karel Marsal, Lund, Sweden; David Phillips, Southampton, UK; Christer Edling the Swedish Society of Medicine, and Robin Williamson, the Royal Society of Medicine.

Symposium Secretariat
Agneta Ohlson, the Swedish Society of Medicine, P.O. Box 738, SE-101 35 Stockholm. Phone +46 (0) 8 440 88 75, fax +46 (0) 8 440 88 99, agneta.ohlson@svls.se, www.svls.se
REGISTRATION FORM BZ 67

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Payment – Eurogiro or Credit Card

- Via Eurogiro or swift to our account number 25 68-4 with Plusgirot Bank ab (publ) SE–105 06 Stockholm, Sweden. swift address: pgsi sess. (Plusgironummer 25 68-4).

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Please send or fax this registration form to the symposium secretariat., P.O.Box 738, SE-101 35 Stockholm, Sweden
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A long standing consensus has been that major non-communicable diseases such as type 2 diabetes, coronary heart disease, hypertension and stroke arise from the interactions between influences of adult lifestyle and a genetically determined susceptibility. However this paradigm has recently been challenged by exciting research showing that conditions such as nutrition and endocrine environment during fetal life and in early childhood may have profound impact on the risk to develop these diseases later in life. The ”developmental origins” hypothesis proposes that alterations in nutrition and endocrine status in early life elicit developmental adaptations that permanently alter the individual’s structure, physiology, and metabolism. As a consequence, the individual may be predisposed to develop cardiovascular, metabolic and endocrine disease in adult age. This development may also be influenced by postnatal growth patterns consequently pre- and postnatal growth and development are closely linked. In this symposium we have tried to bring together some of the world’s leading researchers in this field, and to focus on stress response, glucose metabolism, and cardiovascular risk factors. We also invite young researchers to send abstracts for the poster session to promote the discussion. Welcome to Stockholm!

The meeting is organized by Peter M Nilsson, Malmö, Sweden (chairman); Johan Eriksson, Helsinki, Finland; Agneta Holmäng, Göteborg, Sweden; Thomas Jansson, Göteborg, Sweden; Ilona Koupil, Stockholm, Sweden; Karel Marsal, Lund, Sweden; David Phillips, Southampton, UK; Christer Edling the Swedish Society of Medicine, and Robin Williamson, the Royal Society of Medicine.