

# EuSOS – European Surgical Outcomes Study



**Dr M Grocott**

Director, NIAA Health Services Research Centre, and Consultant in Critical Care Medicine, Southampton University Hospitals NHS Trust

## EuSOS European Surgical Outcomes Study

This update focuses upon an important and exciting international study that is being led from the UK, and managed by the Health Services Research Centre (HSRC). The European Surgical Outcomes Study (EuSOS) will be collecting data on patients undergoing in-patient major general surgery (elective and emergency) for seven days during April 2011 in acute NHS trusts. We hope that as many trusts as possible will sign up to the study and collect data. A large UK contribution will improve the overall impact of the research, as well as providing valuable epidemiological data specific to our practice. The more centres there are involved, and the more complete the patient data capture, the less the risk of bias, and the greater the value of the results.

EuSOS is a multi-centre, international, seven-day evaluation of patient care and clinical outcomes, in patients undergoing major general surgery (non-cardiac, non-neurosurgical). The study has been conceived and

led by Rupert Pearse from Barts and The London NHS Trust, who is the international chief investigator. The UK co-ordinators are Mike Grocott (Southampton and UCL), and David Goldhill (Royal National Orthopaedic Hospital and UCL), and the study will be managed by the HSRC at the Royal College of Anaesthetists. If you would like to be involved with EuSOS, please contact the HSRC (see Box 1 for contact details). If you have already registered an interest, then you should be receiving communications from the HSRC already.

### The aims of EuSOS

This study should answer a number of important questions about the outcomes of patients undergoing major general surgery at both a national and European level. These include:

- What is the in-hospital mortality rate?
- What is the duration of hospital stay?
- What is the current standard of peri-operative critical care provision?
- What is the current standard of haemodynamic monitoring?
- Is there any evidence of differences in the standard of peri-operative care provision in different healthcare systems within Europe?
- Is there any evidence of differences in hospital stay and mortality in different healthcare systems within Europe?
- What factors determine planned and unplanned admission to critical care after surgery?

- Are the factors associated with critical care admission similar to those associated with post-operative death?

These are fundamental questions of importance to all practising anaesthetists. In many respects, it is extraordinary that they remain unanswered in the second decade of the 21st century.

EuSOS has research ethics approval for data collection in acute NHS trusts in the UK, with a waiver of the requirement for consent. We are currently seeking adoption of this study on the NIHR Clinical Research Network (NIHR CRN) portfolio. If successful, this will result in funds flowing to your local research and development office for each patient on whom data has been collected. This is likely to make the study co-ordinators and data collectors very popular with their local trust R&D office!

Please encourage your department and colleagues to take part in EuSOS. This is an important study. A large UK contribution will add great value to our community in the understanding and improvement of standards of peri-operative care.

#### Box 1

##### EuSOS contacts

[www.rcoa.ac.uk/hsrc-eusos](http://www.rcoa.ac.uk/hsrc-eusos)

[eusos@rcoa.ac.uk](mailto:eusos@rcoa.ac.uk)

020 7092 1680

**Morgan Cenán**  
HSRC administrator