BSc in Reproductive & Developmental Sciences &

BSc in Surgery and Anaesthesia Project Outline 2012-2013

**Project Title: Feedback from quality indicators for anaesthetists: What is the best model?**

**Academic Supervisor: Dr Jonathan Benn**

**Co-supervisor: Ms. Danielle D'Lima**

**Who will be responsible for day-to-day supervision?**

**Ms. Danielle D'Lima/Dr Jonathan Benn**

**Which of the following sites will the student be based for the research:**

(Double click the appropriate check box below)

**St Mary’s [x]  Charing Cross [x]  Chelsea & Westminster [ ]  South Kensington [ ]**

**Hammersmith [x]  other (give details)**

**Contact Details of Person whom Medical Student should contact for further details:**

**Name: Dr Jonathan Benn Email: j.benn@imperial.ac.uk Tel:** 020 759 43487

**Is this a clinical [x]  or laboratory [ ]  project?**

(Double click the appropriate check box to indicate your choices)

**Suitable project for: Reproductive and Development**  **Sciences** Yes **[ ]** No **[x]**

**Surgery and Anaesthesia** Yes **[x]** No **[ ]**

**Synopsis of project (background/research question/methods to be used/relevant key references):**

Background:

Following recent UK policy developments, considerable attention has been focused upon how clinical specialties measure and report on quality of care. The challenge is twofold: 1) identifying valid and reliable quality indicators for monitoring programmes, and 2) embedding those indicators within a framework for effective feedback and processes for use of the data to ensure/improve quality of care. Anaesthesia poses certain challenges in identification of valid outcome indicators sensitive to variations in anaesthetic care (Haller, 2004). Metrics collected during the immediate post-anaesthetic recovery period, such as patient temperature, patient reported quality of recovery, pain and nausea, provide potentially useful information for the anaesthetist, yet this information is not routinely fed back. Reviews of the effects of feeding back performance data to healthcare providers suggest that this may result in small to moderate positive effects upon outcomes and professional practice, with stronger effects where feedback is integrated within a broader quality improvement strategy. Research suggests that effective feedback from quality indicators should be timely, credible, confidential, tailored to the recipient and continuous.

Since March 2010, a team of collaborators from the Imperial Centre for Patient Safety and Service Quality and Imperial healthcare NHS Trust have been developing and piloting an initiative to provide continuous, user-focused feedback from quality indicators collected in the PACU at St Mary's hospital for anaesthetists (see Benn, 2012). With funding from NIHR for a comprehensive mixed methods evaluation, this programme has been initiated at two other Imperial sites and provides an important opportunity to understand the requirements for effective feedback for anaesthetists.

Research question:

What are the characteristics of effective feedback from quality indicators for anaesthetists? Specifically, the opportunity exists to conduct evaluative work based upon the existing feedback model and investigate the desirable characteristics of future perioperative quality monitoring and feedback processes.

Research methods:

The project may draw upon a number of existing data sources, including a comprehensive database which includes perioperative quality of care data and end-user evaluative surveys. In addition the researcher will be expected to engage with anaesthetists across three Imperial sites to conduct interviews and collect data on the experience of receiving and using feedback.

References:

Benn, J., Arnold, G., Wei, I., Riley, C., & Aleva, F. (2012). Using quality indicators in anaesthesia: feeding back data to improve care. *British Journal of Anaesthesia, 109*(1), 80-91.

Haller, G., Stoelwinder, J., Myles, P. S., & McNeil, J. (2009). Quality and Safety Indicators in Anesthesia: A Systematic Review. *Anesthesiology, 110*(5), 1158-1175.

Will the research involve work done under the Animals (Scientific Procedures) 1986 Act? Yes **[ ]** No **[x]**

**If YES*,***

Will the student be required to undergo Home Office training? Yes **[ ]** No **[ ]**

Are the appropriate project and personal licences in place? Yes **[ ]** No **[ ]**

**Project licence**:

Licensee

Date of issue

Number

**Personal licence**:

Licensee

Number

**Will the research involve the use of genetically modified tissue?** Yes **[ ]** No **[x]**

**If YES**

Has the work been approved by the relevant GM Committee Yes **[ ]** No **[ ]**

Date approval was granted

Reference Number

**Will the project involve work on human subjects, human tissue or access to confidential patient information?** Yes **[x]** No **[ ]**

## If YES

## has ethical approval been obtained Yes [ ]  No [x]

The project has been approved as Service Evaluation and therefore does not require formal ethical approval.Trust information governance have approved access to the required data.

## Date approval was granted: June 2012

## IC REC or IRAS REC number

**Note: Approval for any of the above MUST be in place before the student begins the project.**

**A risk assessment form will be required.**

**Project Payment**: I have an F account Yes **[ ]** No **[ ]**

## If you have an F account please give full account code: