BSc in Reproductive & Developmental Sciences &

BSc in Surgery and Anaesthesia Project Outline 2012-2013

**Project Title: Getting ‘A Head’ in Orthopaedics**

**Academic Supervisor: Prof. Justin Cobb**

**Co-supervisor: Milad Masjedi**

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

**Mr. Adeel Aqil**

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

(Double click the appropriate check box below)

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

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

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

**Name: Email: Tel:**

**Mr. Adeel Aqil** **a.aqil@imperial.ac.uk**

**Is this a clinical [ ]  or laboratory [x]  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):**

**The trunion of a hip replacement is the region of the stem to which the head is attached. With the relatively recent trend of using larger heads, failures at this important interface have become more apparent. Improper seating of the head may be a contributing factor, yet remains relatively unexplored.**

**Currently there are no guidelines from industry as to the force required to properly seat heads on to different trunions.**

**This project will explore the forces required to optimumly seat femoral heads (made from different materials) and assess whether surgeons can be trained to learn to deliver this critical force.**

**Information gained from this project may be used to inform and train surgeons (via orthopaedic presentations at conferences and/or publications) and thus make an impact on clinical practice.**

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 **[ ]** No **[x]**

## If YES

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

## Date approval was granted

## 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 **[x]**

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