

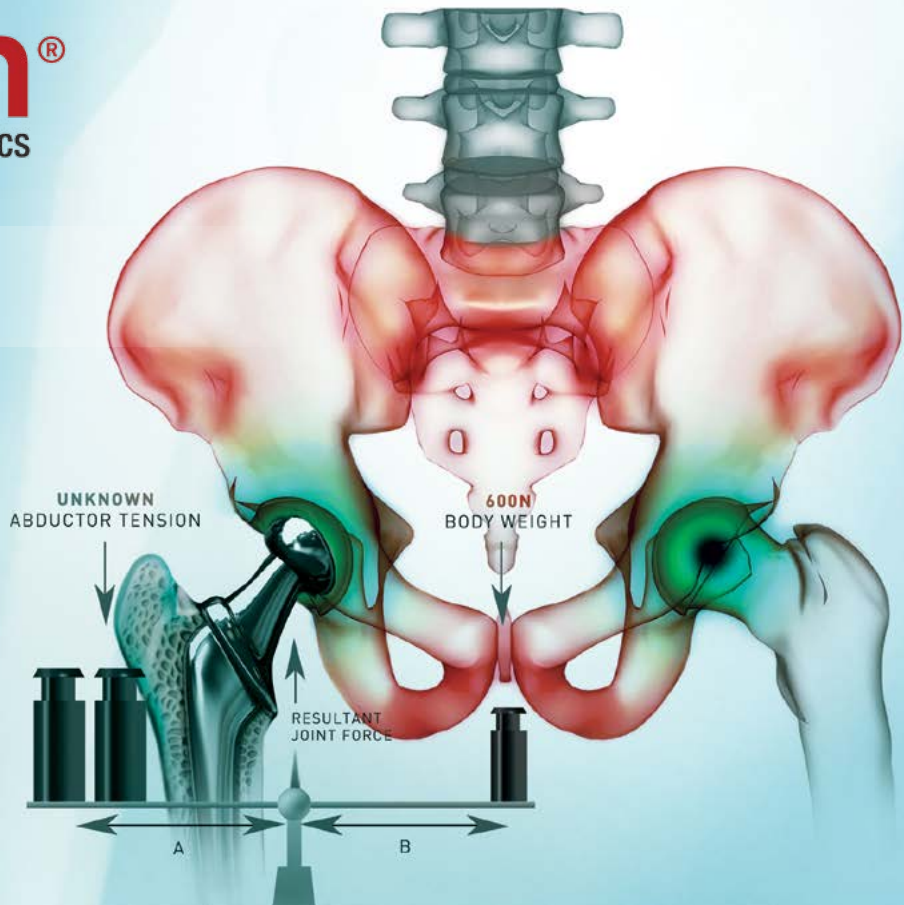
BBiOrth®

BASIC BIOMECHANICS IN ORTHOPAEDICS

2016 Course Prospectus

Course Dates:

21 May 2016 | 17 December 2016



Hello,
We are BBiOrth. This guide
contains the essence of what
makes us BBiOrth.



Synopsis

Previous

Next

Orthopaedic surgery is unique amongst the surgical disciplines in that it requires not only an understanding of anatomy and clinical sciences, and accrurement of surgical skills, but also a sound foundation in biomechanics. Although the former domains are extensively covered during undergraduate and postgraduate medical training, musculoskeletal biomechanics has traditionally been less well covered in the core training.

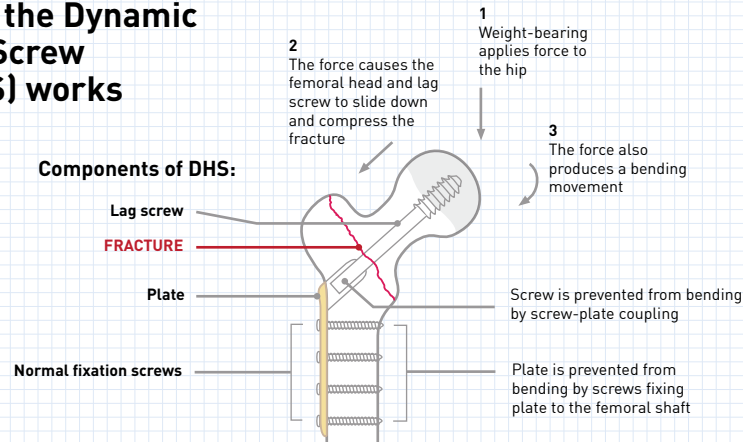
BBIOrth is a one day course that helps fill in this gap. This course covers the fundamental biomechanical principles that must be considered in making orthopaedic decisions. It also introduces participants to the basic engineering concepts behind common orthopaedic implants. This understanding will help to make the clinical practice in orthopaedics more rewarding, and stimulate further enthusiasm for the speciality. The course is delivered through a combination of interactive lectures, small group discussions, and practicals and demonstrations.



The course is awarded 6CPD points by The Royal College of Surgeons of Edinburgh. The course fee includes refreshments and course certificate.

We teach orthopaedic biomechanics and relate it to surgical practice.

How the Dynamic Hip Screw (DHS) works



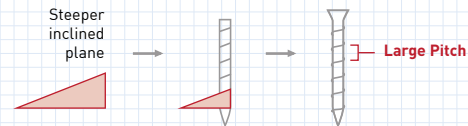
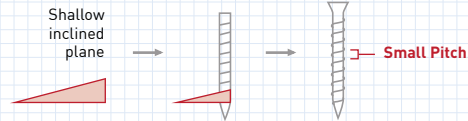
The DHS is designed to allow the femoral head to slide down (with the lag screw) and compress the fracture.

Make the subject engaging | Keep things simple | Be interactive
Whilst covering all the basics.

A screw is a simple machine

A simple machine is a device that changes the magnitude or direction of applied force

An inclined plane is a flat surface that is higher on one end



A screw is essentially an inclined plane wrapped around a cylinder. It converts rotational motion into linear motion. However linear motion cannot make the screw rotate back.

Orthopaedic Biomechanics Made Easy introduces you to the fundamental biomechanical principles in orthopaedics, and shows you how these relate to the clinical practice. The book seeks to fulfil two objectives:

1

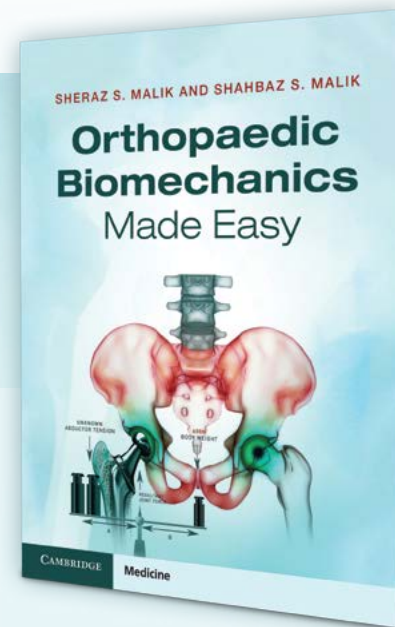
To bring together important biomechanical concepts relevant to surgical practice.

2

To make these ideas simpler and easier to learn.

Our efforts have been about taking you back to the first principles, and making them more interesting and fun to learn. To help you explore the subject, the book is sign-posted into three parts: Orthopaedic biomaterials and their properties; Engineering theory applied to orthopaedics; and, Clinical biomechanics. Each concept is introduced and explained in a discrete double-page spread. Consecutive sections are usually related and follow a common theme.

Naturally, some ideas are more difficult than others, and we expect you to skip over them initially and come back to them after covering the simpler topics. You do not need to deal with advanced maths to understand the presented biomechanical principles. Mathematical explanations are provided in some sections only to demonstrate how a particular biomechanical fact is derived. You may skip over the mathematical workings without missing out on the learning points.



We hope this book helps to make your clinical practice easier and more rewarding.

Venue

BBiOrth course has been held at The RSM since its inception in December 2011, because of the exceptional facilities and highest standard of service.

We pride ourselves in holding the BBiOrth course in such an institution so that the delegates can learn in an environment that promotes advancement of education and fresh ideas.

The fantastic location of One Wimpole Street puts it right in the heart of London's vibrant West End and within easy access of most of the capital's major transport links. The delegates attending the course have travelled from all corners of the United Kingdom and abroad, and therefore the RSM makes an ideal location for the course.



Feedback

“ no other courses that I know cover such concepts in one day and are economical – CT1

“ good basic principles of biomechanics, explained in simple way, very good – ST3+

“ all the instructors were keen to make the topics easier – Clinical fellow

“ good coverage of topics not covered elsewhere – F1

“ I wish I had the opportunity to attend this course while doing my orthopaedic rotation. So many concepts have become clear. – F2

Previous

Next

Course Programme

- 08:30 Registration
- 09:00 Introduction to the course
- 09:10 Basic Principles in Biomechanics
- 09:40 Biomechanics of Hip and THR
- 10:30 Biomechanics of Knee and TKR
- 11:15 Break
- 11:30 Group Discussions: Stations x 4
- 12:30 Biomechanics of Fracture Fixation I
- 13:15 Lunch
- 14:00 Biomechanics of Fracture Fixation II
- 14:45 Group Discussion: Stations x 4
- 15:45 Break
- 16:00 Imaging in Orthopaedics
- 16:45 Case Based Discussion
- 17:30 Feedback & Closure



BBiOrth[®]

BASIC BIOMECHANICS IN ORTHOPAEDICS

Contact us

Online:

info@bbiorth.co.uk | www.bbiorth.co.uk

Telephone:

+44 7527 995 208 (9am-3pm Mon-Fri)

Follow us:

[f](#) | [@bbiorth](#)

We are passionate about orthopaedic biomechanics, and our goal is to popularise this somewhat neglected subject in the early medical training