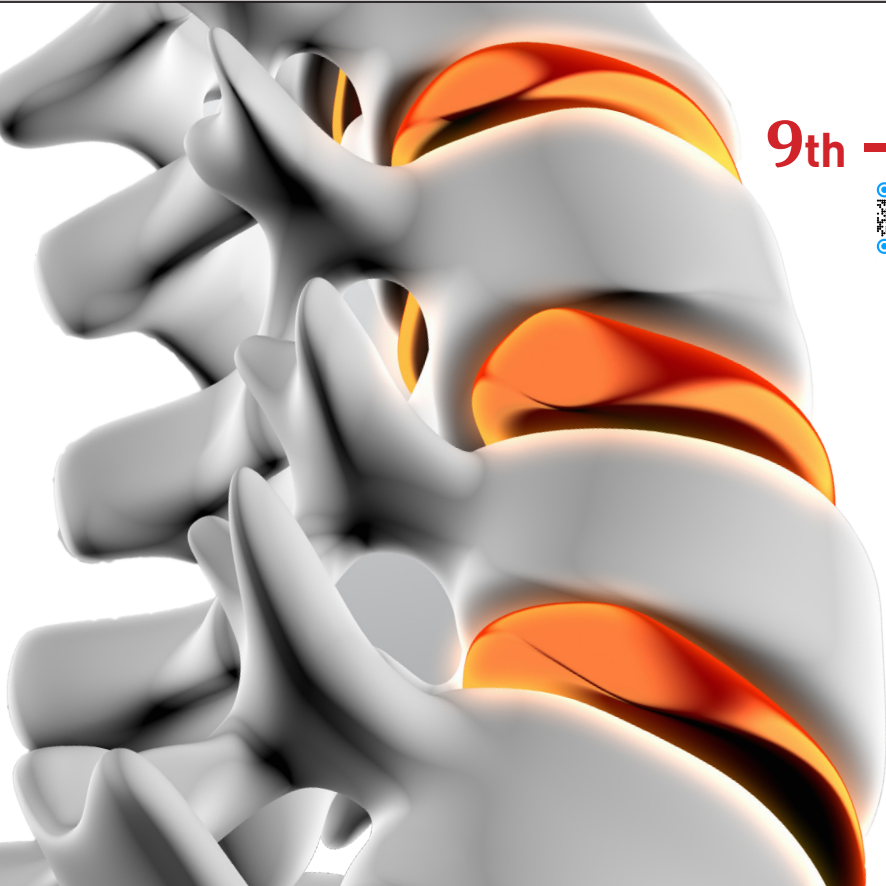


ORTHOBIOLOGICS & SPINAL PAIN

X-ray and US Guided Cadaveric Masterclass

The ONLY comprehensive course covering basic science, preparation and delivery of MSCs

- **Tissue Harvest** for **MSCs** and **PRP** and precise delivery using **USS & Xray**
- **Expert** International faculty
- **Scientific** basis & Evidence for treatment with **MSCs**
- **Live Patient** Demonstrations for USS of the spine
- **Tips and tricks** to gain precise placement with **USS vs Xray**
- **Hands on** preparation of Adipose Cells & Bone Marrow aspirate with industry leading systems
- **Cadaveric wet-lab** on whole bodies for optimal anatomic imaging and tissue feel - The most **realistic experience** available.



9th - 10th December 2021
 **Both Days - £1800**

(Trainee Discount Available)

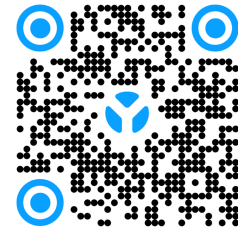
Keele Anatomy & Surgical Training Centre
Royal College of Surgeons Approved

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Masterclass: Orthobiologics in the Spine & Targeted Cadaveric Injection Course

Day 1

An advanced masterclass on PRP, Bone Marrow & Adipose derived MSCs in Spinal interventional practice including basic science, evidence base and also clinical applications. Delegates will also get to practice on reputable PRP, BMAC & Adipose MSC preparation systems available in the market.

- 8:30 – 9:00 Registration and introduction
- 9:00 – 9:30 The Regenerative Revolution – Why is it needed?
- 9:30 – 10:15 The science and evidence base behind MSCs in Spinal pain
- 10:15 – 10:30 Panel Discussion
- 10:30 – 10:45 Break
- 10:45 – 12:15 Scientific Presentations on the practice and preparation in spinal injections of:
 - a. PRP
 - b. Adipose tissue transfer & SVF
 - c. BMAC
- 12:15 – 12:45 Future directions and applications – Consensus building
- 12:45 – 13:30 LUNCH
- 13:30 – 14:30 'How I do it'
Patient selection and Case reports in PRP & BMAC
- 14:30 – 15:00 Discussion
- 15:00 – 15:15 Break
- 15:15 – 15:45 Ultrasound Theory and Evidence Base
- 15:45 – 17:00 Practical demonstration of different systems with discussion



Day 2

Delegates spend the whole day in an anatomy lab practicing ultrasound and xray guided injection of the spine and soft tissue structures. This is on soft embalmed whole-body specimens for the most realistic and problem-solving training approach to image guided injections. You will have to move and position specimens as you would in real patients to get access for your injections.

- 9:00 – 9:30 Guided injections techniques to the disc and nerve roots
- 9:30 – 9:45 Move to Cad Lab
- 9:45 – 10:45 Harvesting of fat and BMAC using available systems
- 10:45 – 11:00 BREAK
- 11:00 – 12:30 Xray guided intra discal Injections of the spine facets and SIJs
- 12:30 – 13:30 LUNCH
- 13:30 – 15:00 Role of ultrasound in Guided injections
Techniques (tips & tricks)
- 15:00 – 15:15 BREAK
- 15:15 – 16:30 Ultrasound guided injections of the spinal facet joints and SIJs
- 16:30 – 17:00 Final practice and review with debrief and close.
with discussion

