

The benefits of education in trauma radiology for foundation doctors working in a regional major trauma centre: a multi-departmental, regional quality improvement project

Sara Caterina O'Rourke¹, CT1 Cardiothoracic Surgery; Daniel Christmas², ST1 Radiology
Royal Infirmary of Edinburgh

Aims & Context

- Foundation doctors make the **majority** of radiology investigation requests and are often the first to access results
- Foundation doctors have little working knowledge of radiology and IRMER (Ionising Radiation Medical Exposure Regulations) criteria as these are scarcely covered in current curricula
- Radiology in trauma management is **particularly relevant** today as Scotland develops its Major Trauma Network (MTN)
- There is an urgent need to ensure foundation doctors are adequately prepared and trained in trauma radiology

Methods

- Multi-departmental project across NHS Lothian incorporating 64 foundation doctors over 12 months
- Audit of self-reported knowledge of indications, limitations and basic interpretation of common radiological investigations used in trauma using a numeric scale
- Development of regional trauma radiology teaching programme and delivery of multiple evidence-based, thematic teaching sessions, in conjunction with local consultants
- Re-audit of self-reported indicators on completion of individual sessions and the programme as a whole

Results

100% Increased understanding of trauma radiology	100% Agree radiology insufficiently covered	100% Agree trauma radiology important and relevant
--	---	--

'A programme addressing the lack of current trauma radiology teaching in Scottish foundation curricula through the development and delivery of a teaching programme that is both **comprehensive** and **reproducible** across Scotland's Major Trauma Network'

Future Steps

- Scotland's foundation doctors would benefit from regular radiology teaching, in parallel to the demands of the Scottish MTN. This is currently under consideration for the 2022 curriculum
- Our teaching programme is suitable for MTN-wide delivery

