Critical thinking and decision-making in clinical radiographic practice - Implication for education and training.

Aarthi Ramlaul*, Diane Duncan, Jon Alltree

*Principal lecturer and programme leader
BSc (Hons) Diagnostic Radiography and Imaging
Study

- Purpose
- Rationale
Research design

- Methodology
- Method

- Data analysis and interpretation
  - Trustworthiness
  - Reflexivity
Findings

- Metacognition
- Novice to expert
- Disposition to think critically
- Evaluating information using reason
- Decision-making
- Reflection
- Theory to practice
- Challenges
- Student engagement

University of Hertfordshire
• “...it makes you take a step back and consider the decisions you make. When you are making a decision for the patient, especially a complex decision, you realise that the decisions you make has a bigger impact than you initially thought...” (SP5)
“…not all critical thinking is reflection but all reflection is critical thinking…” (SP12)
“…simple tasks, like justifying routine examinations like chest X-rays, will bypass critical thinking as you do lot of simple tasks on a daily basis. A complex task, like prioritising patient lists, would require critical thinking as you have to consider a number of things…” (SP2)
Conclusion

• Pedagogical considerations
  – Teaching and learning activities
    • Student engagement
Consideration of
– Discipline specific definition of critical thinking
– Model of critical thinking development in radiography
Key references