Perfused human Thiel embalmed cadavers – liquid embolization training model

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Disclosure

Speaker name:
Mrs Helen McLeod...........................................................

I have the following potential conflicts of interest to report:

☐ Consulting
☐ Employment in industry
☐ Stockholder of a healthcare company
☐ Owner of a healthcare company
☐ Other(s)

☒ I do not have any potential conflict of interest
Thiel Embalmed Human Cadavers

Advantages

• Human anatomy
• Tissue properties – flexible, colour and tissue tone
• Low odour and infection hazard
• PATENT VASCULAR SYSTEM
Perfusion & Model development

Extracorporeal abdominal aortic circuit

Heart Lung machine continuous or pulsatile flow

Bilateral common femoral artery ports
- Exit port for flow
- Access port for intervention

Input

DSA – abdominal aorta-gram
Liquid embolization training course

Full clinical simulation of treatment room

- 24 delegates receive hands on training
- Haptic feel realistic
- Expert faculty – time for discussion of each stage
- MDT - nurses etc
- Radiographers – dose evaluation/considerations
- Course feedback
Interventional imaging

renal artery territories

Iliac artery territories

superior mesenteric artery and related territories
Post Embolization Fluoroscopy
Conclusions

Advantages
• Full clinical simulation
• Anatomically accurate model
• Robust model – large number of territories available in each cadaver

Limitations
• Pathology/haemorrhage not yet included in simulation
• Improvements to perfusion station to increase realism of simulation
• Educational and learning validation studies planned.
Thanks

For those who generously bequeathed their mortal remains for the furtherance of medical education and the benefit of mankind

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