



Emergency Ultrasound

Introduction

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Faculty

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- Paul Atkinson
- Richard Kendall
- David Lewis



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Programme

- Ultrasound physics
- Instrumentation
- Primary ED applications
- Practical sessions
- Accreditation
- Quiz



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"Mr. Osborne, may I be excused? My brain is full."



Participants

- Emergency Physicians and Surgeons
- No previous ultrasound experience
- First stage in credentialing process



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Patients

- Volunteers
 - Abdominal Aortic Aneurysm
 - CAPD
 - Musculoskeletal injuries
 - Normal
- Care and courtesy

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Equipment

- Toshiba Nemio
- Toshiba Aplio



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History ED ultrasound



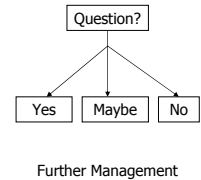
- Germany and Japan for past 20 years
- US for 10 years
- Development of portable *low-cost* high quality ultrasound machines

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Limitations



- Goal-directed focused examination to answer specific question
e.g is there an AAA?
- Does not replace imaging provided by the Radiology Department

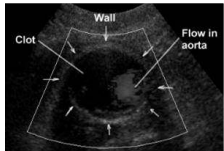


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Principle indications UK



- Venous Access
- FAST
- ? AAA
- ? Cardiac Tamponade / PEA



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Principle indications Worldwide



- FAST
- ? AAA
- ? Obstructive uropathy
- ? Cardiac Tamponade / PEA
- ? Live intrauterine pregnancy
- ? Venous Access

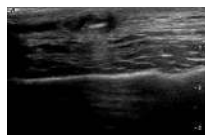


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Other ED US Indications



- ? FB
- Musculo-skeletal imaging
- Evidence of cholelithiasis
- DVT assessment
- Retinal detachment
- Necrotising fasciitis
- LVF
- Fracture



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Can I do it?



- Large amount of supporting evidence
- Combination of:-
 - Course
 - Experience gained within clinical governance framework

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Questions?

