















 Over 10 million doctors in the world



























"Ultrasound is becoming the stethoscope of the 21st century"

Mount Sinai ED 2015





But it's a hard skill to teach

- you need doctors to teach you; and
- patients to learn on











ScanTrainer®

Learn faster, learn better

GENERAL MEDICAL







Spin-out from Cardiff University Medical School to develop the only ultrasound training simulator that offers **teaching**, **learning** and **assessment** in a single package





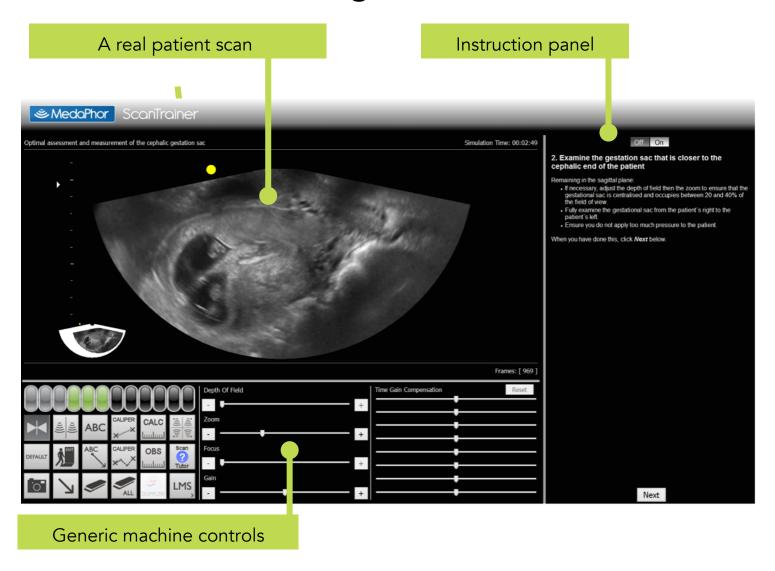
The ScanTrainer learning screen











ScanTutor: real-time 1:1 expert guidance

SCANTUTOR ACTIVE





Help locating structures with specific colour guidance

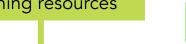
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"Watch the expert" ScanTutor videos

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Text book based learning resources



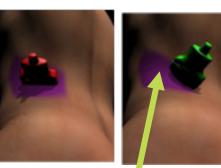


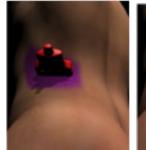


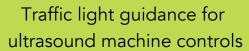












ScanTutor guides probe placement and probe orientation



Metrics - a practical assessment of scanning skills



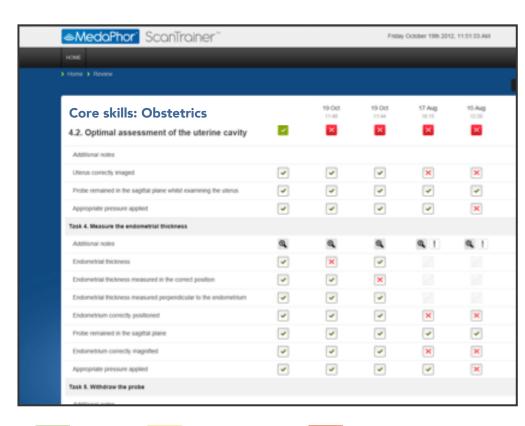








- transducer positioning:
 - location
 - orientation
- image optimization:
 - gain
 - · zoom
- image positioning
- sweep assessment:
 - · % of organ viewed
- organ identification
- biometry:
 - · BPD, HC, AC, FL
 - amniotic fluid index
- measurements:
 - accuracy
 - position
- Doppler







Just passed



Fail

Providing centralised training and examination



New ScanTrainer Cloud enables a true practical assessment of a trainee's image acquisition skills utilising ScanTrainer exam modules and the cloud

















Results and pre-approval sent to student

Using simulators in any ScanTrainer equipped hospital or any examination centres



2

Trainee logs on and accesses examination module, examines patient, captures relevant images and answers multiple choice questions



create your own volumes

a simulation revolution









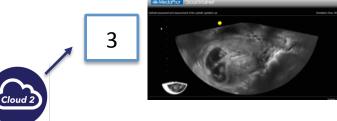


Uploads data file into NEW Volume

Generation Engine in the cloud



Doctor scans 3D single sweep pathology (currently GE only)



Creates new ScanTrainer patient case With virtual anatomy and haptic feel



Creates new ScanTrainer patient case With virtual anatomy and haptic feel

Launched in 2005 and now selling in 16 countries



How did we manage this?











- Great commercialisation team at Cardiff University and positive academics
- 2 Private funding from IP Group when it mattered at the high risk stage

- Matched by regional funding from Finance Wales
- 4 SMART money from Welsh Goverment to build the prototype simulator
- **Great location in the Medicentre flexible rent with access to key doctors**









