School of Medicine Mobile Learning Programme
University of Leeds

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Mobile Learning in work-based Practice
Our History with Mobile learning
ALPS-CETL

A Centre of excellence for Teaching and Learning
2005 to 2011
5 Universities in West Yorkshire
16 Healthcare Professions
Skill and Competencies for Healthcare in Practice
Mobile devices for recording competencies

www.alps-cetl.ac.uk
Undergraduate Medicine in Leeds - MBChB

Five or six year course
260 students per year
New Curriculum launched in 2010
Students are learning in hospitals, clinics and the community
Work based practice crucial to success

New clinical placements:
  Year 1 & 2 – Primary & Secondary Care
  Year 3 – Elderly Medicine & Special Senses (2012)
  Year 4 – Acute & Critical Care; Cancer & long term care
  Year 5 – Assistantships and transitions to practice

Mobile Learning supports learning and assessment
Why Mobile MBChB?

Where are our students coming from (educationally, technologically, culturally)?

What might they look like (and be doing as doctors in 2015-2020?)

What are doctors using mobile for at present?

Apps
iPads
Hard wired
What is Mobile Learning?

Helping Students become better doctors

Support of MBChB Students in practice

Near patient experience

Access to medical information

Assessments undertaken with practice professionals

Reflection, evidence and assessment outcomes recorded and sent to an e-portfolio
Mobile Learning Delivery

Curriculum review 2007-2010 provided golden opportunity

Key to success was that MBChB mobile activities were embedded

• Integrated across different strands of the programme
• Central platform
• Replace rather than ‘bolt on’
• Teaching, learning & assessment

Students at the heart of road testing and innovating
Mobile Learning Delivery

Provide access to published medical content from practice

Provide a number of assessments that can be completed as self-assessment or with practice professional

Provide a method of recording assessment outcomes and publishing them through the e-portfolio for CPD and Lifelong Learning
Solution

Each Year 4 and Year 5 medical student is loaned an iPhone 3GS which they can use as their device (260 each year).

Medical Content such as the Oxford Handbooks (standard Medical texts) and the BNF (prescribing manual).

Applications for assessment of students.

O2 3G Network with unlimited broadband and Pay As You Go voice and txt.
Medical Content

Dr Companion
BNF
Oxford Handbook titles
Delivered by Medhand

Other apps
Instant ECG
Medscape
3D Brain
Apps for Assessment and Learning
Reflection Tools

Reflection and recording of evidence through progress file.

Publishing to e-portfolio (private and public)

either Assessment for Learning (formative) or Assessment for Progression (summative)

Delivered by MyKnowledgeMap
Assessment Tools

Based on the ALPS assessment suite of inter-professional assessments

Others which prepare for postgraduate medicine such as:

miniCEX - mini Clinical examination

Work Place Based Assessment
Assessment Tools

Learning Suite application (lecturers can build their own assessment questions)
Students and the iPhone

Focus on students in Practice

iPhone plus unlimited mobile broadband (Telefonica O2)

PAYG voice and text

Students sign contract of use
The e-portfolio - The progress file

Space for reflection

Space for recording evidence

Space for publishing assessment outcomes

Preparing for Life Long Learning

Developing skills for CPD

Key tool for Mobile learning

Mapping to Tomorrows Doctors
Evaluation
WBA assessment for GOSH rotation

 ROTATION 1 - Sep 2010

 ROTATION 2 - Feb 2011
### Average No. of WBA completed within rotation

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<tr>
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<tr>
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<td>Primary Care</td>
<td>23 (9.6%)</td>
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Success - Programme View

Programme

• Enhancing our assessment for learning + profiling
• Encouraging open book / ‘look up, practice and record’
• Which clinical staff are assessing – and what is feedback like?

Students & Unexpected developments

• Value of near patient encounters and feedback/supervision
• Breaking down barriers with others
• Remote usage - revision and preparation
Success - Clinical view

Enhancing clinical practice learning (cf. postgrad)

• More engaged students
• ‘Upping the stakes’ of a clinical encounter
• Value of seeing positive feedback loops

Opportunistic

• Students increasing self select – ‘Can I do’
• Better use of everyday material

Resources

• We use them as much as the students!
Mobile Learning

anytime, anywhere, anyplace
Questions?