S1: When and why to use technology

Rachel Ellaway

why should we use technology?

when should we use technology?

Technology in HP education

- Technology is intrinsic to education – books, libraries, buildings, chalk/white boards
- We tend to only see the new as ‘technology’
- p-Learning, b-Learning?
- ESCEL has been designed to increase your awareness of and competency in using digital technology for health professional education

it’s the best thing to do

…it’s the best you can do

It's the best thing to do

When is technology-enhanced learning (TEL, e-learning, TBL, etc.) the optimum model?

Is it ever?

It can be difficult to make this case …

Particularly given that most educational models are technology agnostic.

Dreyfus and Dreyfus


Learning as transaction

It's not about the technology

- Technology can be used in almost every kind of medical education activity
- There are very few, if any activities, where technology is the primary focus, perhaps:
  - eHealth ‘medium as message’
  - digital professionalism
- So, are there any optimal reasons for using technology?

Internet powers

- Hiding, blurring and flattening social conventions
- Exponential connectivity
- Accelerating speed of action and response
- Reach - defeating geography and temporality
- Tracking – accountability, privacy

If you need some or all of these then they can be enablers … but not the primary focus

Making the most of what you have

- Compromise – best we can do …
- Compensation – if we can’t do that …
- Opportunity – well, as long as …

Configuring the learning environment …

what happens when you do?
What happens when you do ...

Technology:
• Transforms, directs
• Alters preferences
• Introduces or enables biases
• Shifts power and authority
• Introduces new professions
• Can both help and hinder learning

We are flawed

Common learner and teacher preferences and biases:
• Economies of presence and attention
• A will to not see technology as their concern
• Many, many biases
• Educational technology is NOT causal

Why use technology?

• Technologies let us change the rules
  – to save time and effort – remembering, repeating, finding, recording, structuring
  – to go beyond physical limitations – big/small/far
  – to go beyond temporal limitations
  – to organize and connect
  – to scrutinize, record, and track
  – technology is an enabler, a prosthetic

Approaches to ID: ADDIE

analyze
evaluate
develop
implement
design