Information and Communications Technology in Infection Control Education

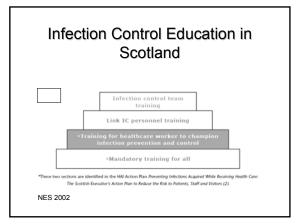
Dr Karen Lee University of Dundee

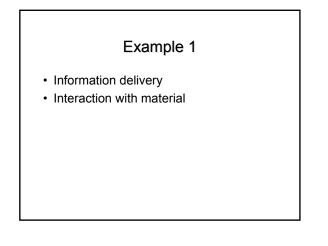
e-learning INTERACTION • Interaction with the material • Interaction with the teaching team • Interaction with fellow students

Examples of ICT in e-learning

Information
 The "cleanliness champion"
 e-learning web package

Communication
The "Specialist Practitioner"
qualification/BN in Infection Control
virtual learning environment





News release

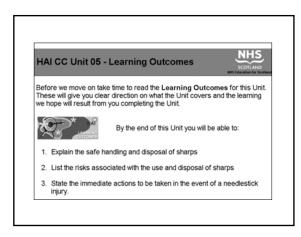
"....we must look to create 'champions' on every ward who will act as an important link between the wider NHS workforce and the ICN's". Scottish Executive April 2002

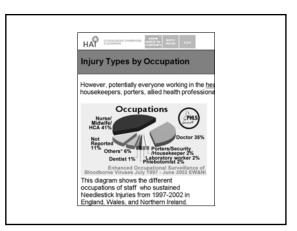


"I want the NHS to take advantage of that (web-based) training package and make it available to at least one nurse in every ward and clinical unit in the country creating up to 3,500 'cleanliness champions' in all."

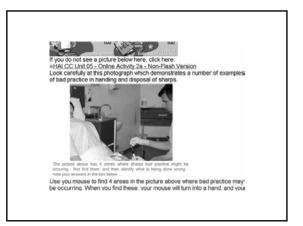
Scottish Executive April 2002

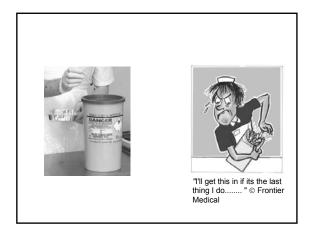
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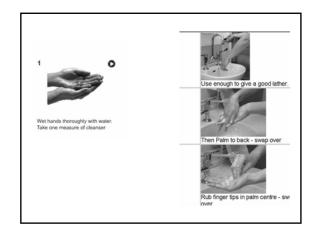




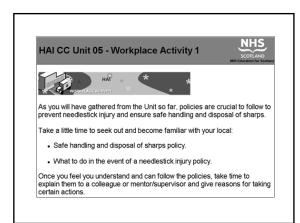


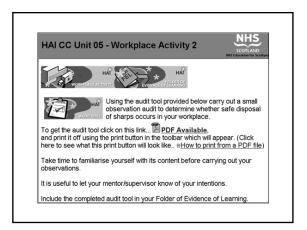


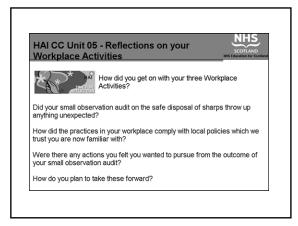


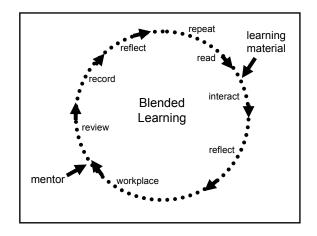


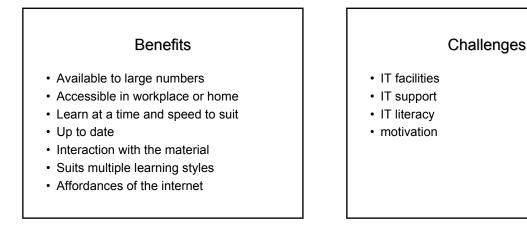
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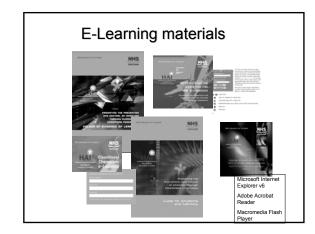


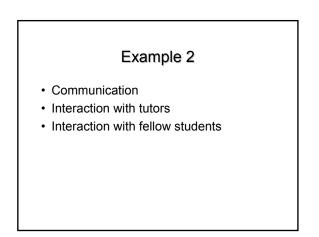






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What is a Specialist Practitioner?

- · clinical expert,
- · resource consultant,
- researcher,
- educator,
- · change agent,
- · advocate,
- · clinical auditor,
- · leader,
- manager,
- accountable practitioner
 McGee (1998) "Specialist practitioner in the UK" in Castledine, G. and McGee, P. Eds Advanced
 and Specialist Nurse Practice Oxford, blackwell scientific

YEAR	ONE
SEMESTER ONE	SEMESTER TWO
Partnerships in Learning	Ethics, Professional and Legal Practice
Science of Infection a	and Infection Control
YEAR SEMESTER ONE	TWO SEMESTER TWO
Research and Evidence- based Practice	Integration of Standards for Specialist Education and Practice
Deseties of lafestice O	ontrol: Community and

Requirements

- To teach specialist nursing practice at a distance
- To empower nurses to use higher levels of judgement, discretion and decision making

Rationale for use of the VLE

Aim1: To facilitate constructivist and collaborative learning experiences such as PBL, situated in the practice context

Benefits:

- Learning from each others' experiences in multiple perspectives and different practice settings
- · Development of metacognitive skills
- Learning in the context in which it's to be applied in real-life situations Learning to learn, exposure to constructive criticism

and alternative viewpoints, reflecting on own practice, collaboration and social negotiation

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Aim 2: to enable development of a community of practice-

"a group of people who share a concern, a set of problems, or a passion about a topic, and who deepen their knowledge and expertise by interacting on an ongoing basis" wenger 2002*

Benefits:

- Dialogue with peers and experts
- · Modelling the role and language of practitioners
- Student's identity and learning is shaped by participating within the community

*http://www.ewenger.com/theory/index.htm

Collaborative Learning

Communication and Community come from the same root......

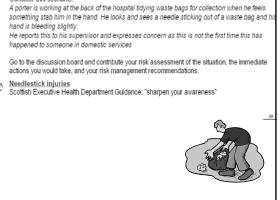
Communicare = to share

Practice focussed etivities and authentic tasks

- Interpretation/use of legislation/guidance
- · Practice scenarios
- Identifying good and bad practice from photos
- Critiquing student seminar presentations
- · Sharing past experiences
- · Problem-based learning



Consider this scenario:

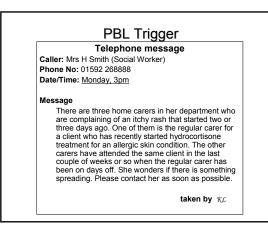




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Date: Wed May 19 2004 11:13 am	
Author: Lee, Karen <k e="" lee@dundee.ac.uk=""></k>	
Subject: What is the cause of the itch?	
This is probably the first question that sprung to m	ind. What were your thoughts
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Hallmarks of a collaborative online classroom

- Active interaction involving both course content and personal communication
- Collaborative learning evidenced by comments directed primarily student to student rather than student to instructor
- Socially constructed meaning evidenced by agreement or questioning, with the intent to achieve agreement on issues of meaning
- Sharing of resources among students
- Expressions of support and encouragement exchanged between students, as well as a willingness to critically evaluate the work of others

Active interaction involving both course content and personal communication

Student:

I could share personal experience on this. As one of the many health care professionals who has acquired scabies [which was] misdiagnosed by my GP....for more than a month until I gave scabies to someone else in my family who was then diagnosed [correctly] by the very same GP! Collaborative learning evidenced by comments directed primarily student to student instructor rather than student to instructor

Student (to other student in discussion board):

Hi Maria, Yes I totally agree with you, ... Having previously worked in Dermatology I feel skin conditions of any sort are commonly misdiagnosed and inappropriate treatments prescribed especially by GP's unless they have a particular interest in skin !

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Socially constructed meaning evidenced by agreement or questioning, with the intent to achieve agreement on issues of meaning

• 3 students having an interaction later on in the course

S1:I believe the chance of transmission happening is so small, it is not worth mentioning and only augments the stigma around scabies and the unenlightened rituals of using non evidenced based infection control practices like isolating patients.

S2: [reference] suggests isolation is only necessary for Crusted scabies. When first diagnosed, will we always know which one it is? As isolation is recommended for only 24hrs after treatment, isn't it better to be safe than sorry?

S3:If you mention even a suspicion of a scabies, the "victim" is almost invariably subjected to a period of involuntary isolation by carers and even relatives, due to a widespread belief that scabies is "highly infectious". This is often a kneejerk reaction based on fear and misunderstanding. Surely it is the role of the community infection control nurse to look at the evidence... and formulate reasoned and reasonable plans ...

Sharing of resources among students

Hi everyone, there is an interesting article in the nursing times supplement about scabies. There is a good picture of a female scabies burrowing in the skin! You might be able to access it at

www.nursingtimes.net



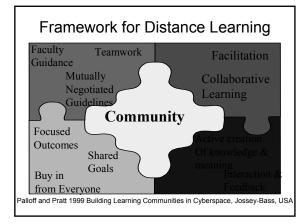
Expressions of support and encouragement exchanged between students, as well as a willingness to critically evaluate the work of others

Carrie:

Thank you Alison for writing this up- it was a great help.....I also felt there was an educational issue for the staff involved who were contacts of the initial patient. Were they washing their hands after assisting her? ...this i feel is a big educational issue for community staff as well as hospital staff

Alison:

Carrie, an important point that I certainly hadn't thought about thanks.



Computer-Mediated Communication

Benefits over face to face teaching:

- Time delay allows thoughtful, considered replies- deeper learning
- · More equal participation
- · Permanent record

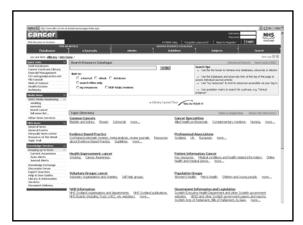
Warning: no visual or auditory cues

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Is it just for students?

- "In reality, our knowledge needs in our jobs are very unlike what we experience in classrooms. Our needs aren't clear....they arise as concerns and frustrations present themselves in our work.
- In the real world, we learn most in the process of becoming part of a community and contributing to what it is doing" Nickols (2000) http://home.att.net/~discon/KM/CoPs.htm

E-library knowledge portals Combine I, C and T and education Provide focused, evaluated content and interactivity Support online communities sharing knowledge and good practice Essential aim to support the application of knowledge to improve patient care NHS Scotland e-library 2004 www.elib.scot.nbs.uk



Knowledge management

- Information isn't knowledge
- Knowledge management is capturing knowledge that is important, working with it, making it available where it is needed so it can be used to improve care
- ICT is playing an increasingly major role



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