Introduction of an Electronic Portfolio for Undergraduates

Susan Hooper
Bristol Dental Hospital and School
Portfolios

Background
Portfolio development in Bristol
Opportunities
Background

What are portfolios?
Key aspects of Portfolios?
What models exist?
What are the purposes?
What are they used for?

Pitts J. Portfolios, personal development and reflective practice
Association for the Study of Medical Education 2007
What are Portfolios?

- A portable case for holding material

*Answers dot com*
What are Portfolios?

- A portable case for holding material
  Answers dot com

- Investments held by an individual and managed by a financial professional
  Investopedia
What are Portfolios?

- A collection of evidence assembled and managed by a user, facilitating reflection

Wikipedia
What are Portfolios?

- A collection of evidence of student activity that
- Outlines own learning experience
- and requires intellectual processing
- and draws together multiple items
- or is a learning journal with reflection

Buckley et al. The educational effects of portfolios on undergraduate student learning: a Best Evidence Medical Education (BEME) systematic review. Guide 11 2009 Medical Teacher 31: 282-298
Key Aspects of Portfolios

- Recording the student experience
- Experiencing the discovery of learning
- Gathering and applying the evidence
- Establishing the learning needs
- Identifying learning opportunities


Community Based Dental Teaching Conference 2011
What Models exist for Portfolios?

- The shopping Trolley
- The Toast Rack
- The Cake Mix
- The Spinal Column

C Webb et al. 2009 Medical Education 36: 282-298

The authors question?
A demonstration of clinical ability or writing skills?
The Purpose of a Portfolios

- To record personal development and career progression
- To demonstrate a certain level of achievement
The Purpose of a Portfolios

- A Portfolio is a means to an end

**NOT**

- an end in itself!
The Uses of Portfolios

- Continuing Professional development
- Enhanced learning
- Assessment
- Evaluation
- Certification and re-certification
- Career advancement
The Bristol Experience

Clinical Experience Recorder (CER)

- Developed by EELS (Embedded E-Learning Solutions)
  - a project funded by the University of Bristol
- An online web-based system for recording student’s clinical cases
- Involved Vets, Medics and Dentists
  - Dr David Dymock and Dr Dominic O’Sullivan
EELS - Clinical experience recorder

Student upload of information as case progresses

Supervisor

Final submission

Marker

Student builds up bank of cases

Best cases deposited in ‘library’ for viewing by all students

Tutorials

Stage 1

Stage 2
Clinical Experience Record

<table>
<thead>
<tr>
<th>Patient Details</th>
<th>Examinations</th>
<th>Investigations</th>
<th>Diagnoses</th>
<th>Treatments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case Title:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Case no:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Case Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age at presentation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date of Birth:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sex:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date Case first examined by first Case Author:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Case authors:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Presenting Complaint:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>History of Presenting Complaint:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social History:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relevant Dental History:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relevant Medical History:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Community Based Dental Teaching Conference 2011
Clinical Experience Recorder

Principles

- Student has “ownership” of case
- Mentors invited to comment
- Completed cases can be moved to “library”

Standard forms for each case - flexible

- Patient details; Examinations; Investigations
- Diagnoses; Treatment and Reflection

Image storage

- Scanned forms; Photographs; Radiographs

Community Based Dental Teaching Conference 2011
Student Feedback
Likert scale selection and free text

Favouring an on line system to store clinical experience – 89%

• Use of an e-portfolio to replace a case based oral presentation
  • 51% favoured; 29% against; 20% no comment

• Sharing of cases in virtual library
  • 94% favoured; 6% no comment

• Sharing student e-portfolios with trainers/employers
  • 60% favoured; 23% against; 17% no comment

Community Based Dental Teaching Conference 2011
Community Based Teaching (CBT) and Portfolios

- Maintains collaboration with Dental School
  - readily shared resource
  - promotes quality assurance
- Stepping stone to independent practice
  - goal to develop portable portfolio
Opportunities

Record of achievement and reflection
Improves the learning experience
Life long record
Assessment tool
Educational research
Resource and platform for education
The Sky is the Limit

Thank you for your attention