

Making Research Count via an Online Environment

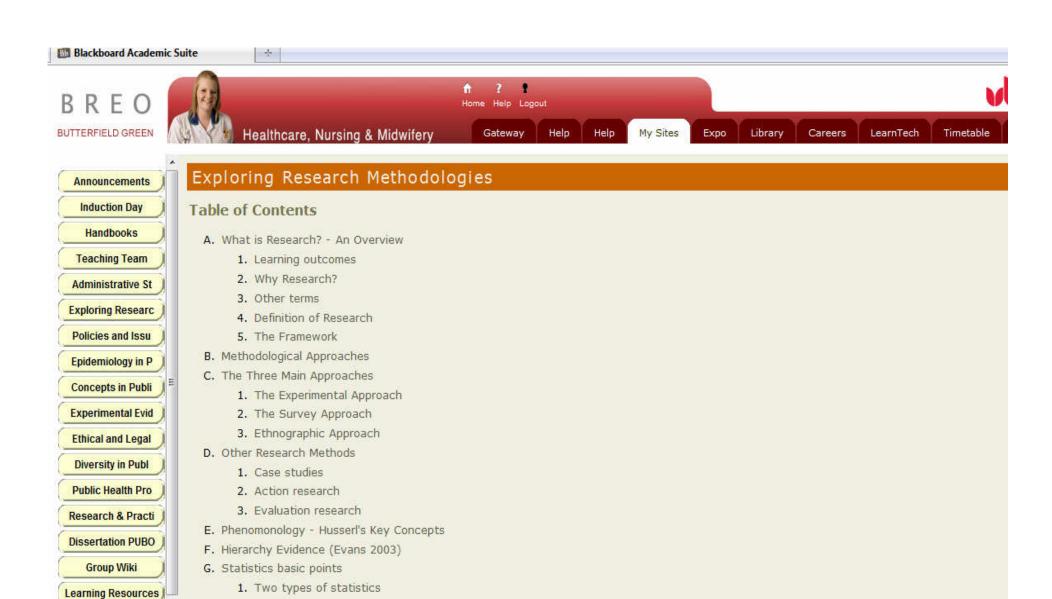
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Background

- 2005 Public Health Masters offered as a full or part time taught course
- It became apparent that there were many more enquiries than applications received. Why?
- Audit of 88 enquirers = the attendance requirement problematic. The need for a distance learning mode of delivery identified
- 2007 Online Public Health Masters launched
 - huge learning curve



2. Types of variables

7. Qualitative Data Analysis

10. Relevant Internet sites:

3. Frequencies

Averages
 Variables

6. Basic Tests

Bibliography
 Journals:

Current Awareness

Useful Websites

All discussions

Live Classroom

PebblePad

PebblePad Help

Identifying the Challenges

- A degree is the minimum entry requirement.
- The expectation was that the students would come with a basic understanding of the research process
- This proved not to be the case
- Our early perceptions lack of academic skills
 - Referencing, quality of literature used, critical analysis skills particularly problematic

Questions we asked ourselves ...

- If the traditionally taught students were having difficulty with key skills what would we find with the distance learning students?
- How were we going to get the distance learning students to engage with research and develop key skills via an online environment?

Finding the answers!

Research and evaluation needed

Ethics approval and funding (CETL) secured

Study Design – Action Research

Action Research (AR)

- This approach begins with an idea and the research process is the developmental process of:
 - following through the idea
 - seeing how it goes
 - continually checking whether it is in line with what we wish to happen

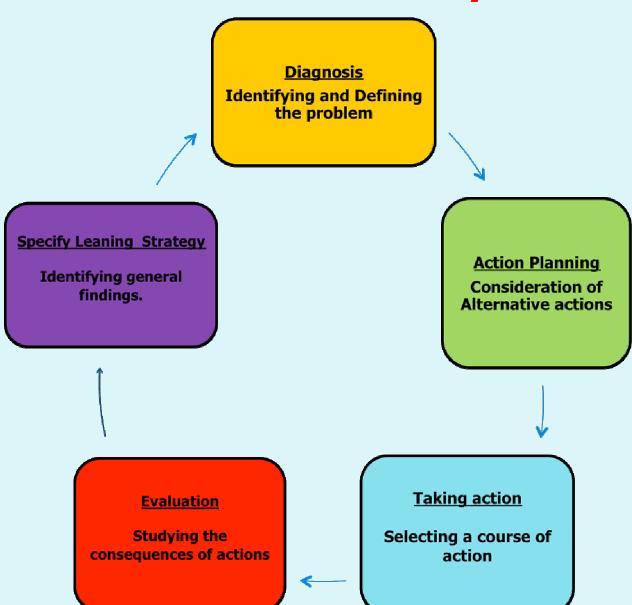
Action Research (cont.)

 Seen in this way, AR is a practical way of looking at our own work to check that it is as we would like it to be

 AR is open ended and does not begin with a fixed hypothesis. Hence, is a form of self evaluation

McNiff, J (2002) Action research for professional development – Concise advice for new action researchers [online] www.jeanmcniff.com/booklet1.html

Action Research Cycle



Stage 1: Diagnosis - identifying and defining the problem

- Attending students have difficulty with developing research skills so what strategies can we use that will be equally effective for our online students?
- How do we ensure that <u>all</u> our students gain the research skills required for 'real world' practice
- Brew & Prosser (2003) suggest that students and academics engage in a 'research' partnership, and work together in a community of learners. Is this possible with online learners?

Brew, A and Prosser, M T (2003) Integrating quality practices in research-led teaching and institutional priorities, *Proceedings of the Australian Universities Quality Forum: National Quality in a Global Context, pp.118-121 [online] http://www.auqa.edu.au/auqf/2003/program/day3.htm*

Stage 2 :Action Planning - consideration of alternative actions

- Beetham & Sharpe (2007, p3.) ask 'are we prepared and ready to re-think our pedagogies and re-do our practices?' They further propose that contemporary pedagogy would need to encompass 'ways of knowing' as well as 'ways of doing'
- Hughes (2008, p438): 'technology, without the pedagogy can be a fetishised and empty learning, and teaching experience – stylized, but without substance, simply an electronic information push'

Stage 2 (cont.)

 Hughes further proposes that the UK has lost it way and that pedagogical debate has been held back by emphasising the technology per se.

Beetham, H., & Sharpe, R., (2007) Rethinking pedagogy for a digital age, designing and delivering e-learning, London; Routledge

Hughes, J. (2008) *Becoming an eportfolio teacher*. In Cambridge, D., Cambridge, B. & Yancey, K. (Eds.) Electronic Portfolios 2.0: Emergent Findings and Shared Questions. Washington, DC: Stylus Publishing.

Stage 2 (cont)

- Mayes and de Freitas (2007, p23) suggest that we are witnessing `a new model of education, rather than a new model of learning' as 'our understanding deepens...we see how learning can be socially situated in a way never previously possible'.
- We need to continually review our pedagogies and understanding of e-learning

Mayes & de Freitas (2007) in Beetham, H., & Sharpe, R., (2007) Rethinking pedagogy for a digital age, designing and delivering e-learning, London; Routledge

Stage 3:Taking action — selecting a course of action

- Formally explore the academic achievement of our student cohorts
 - do our perceptions match student ability?
- Listening to the student voice
 - What do they think is working?
 - What do they think needs to be improved?

Sample: n=104

- All students asked to complete and return a questionnaire (via email)
 - Data gathering tool has evolved over time
 - Very high response rate

Data Collection: Questionnaire Background Data

Mode of Delivery?

Home / overseas student?

Course Duration?

Academic Level on Entry?

Data Collection: Questionnaire (cont)

- Student perception of research skills on entering the course <u>and again</u> on completion
- Identify what skills they want to develop / what skills have been developed
- What teaching and learning strategies are effective / could we do anything differently?

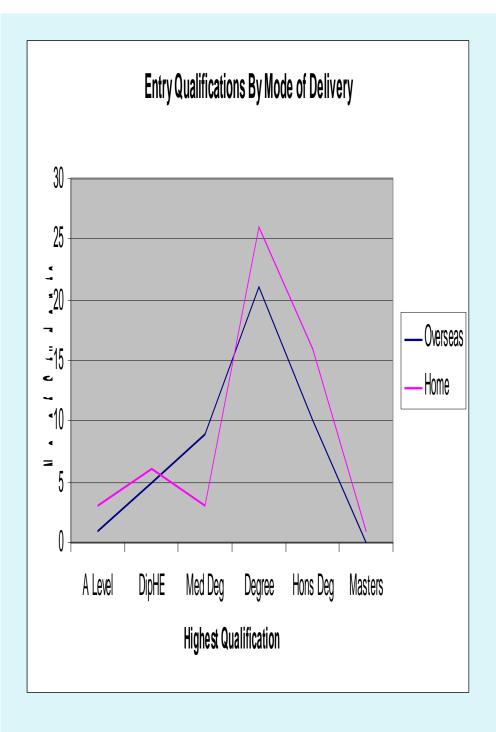
Outcome Measures

Academic achievement (Assessment Grades)

- Research Methodologies Unit (Early in course)
- Dissertation (Final assessment)

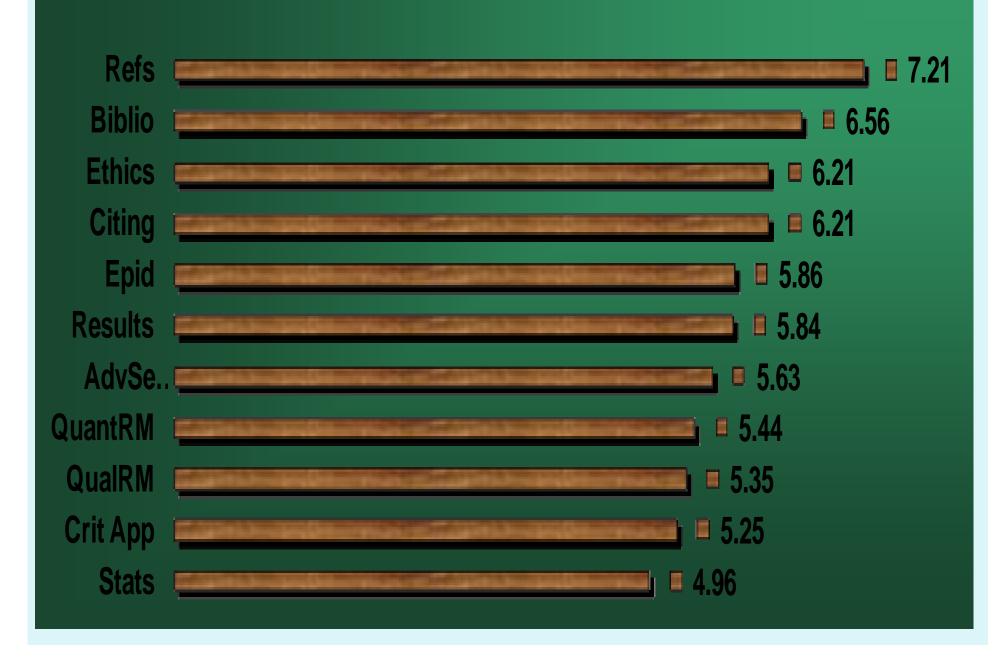
Results (1)

- Mode of Delivery:
 - 74 traditional taught (71%)
 - 28 online
 - 2 mixed (some online learning due to pregnancy)
- Course Duration:
 - 74 completed full time (1 year)
 - 29 part time (2 years)
- International Students:
 - 46 International students (44%)
 - 3 EU students (2%)



- There was no significant difference in entry qualifications by overseas or home student status (n=101)
- Differences in perceptions of research skills also not significant (n=54)
 - referencing most confidence with (mean 7.21)
 - Statistics least confidence with (mean 4.96)

Student Perception of Research Skills: Mean Ratings on entry



Results (2)

Suggested Changes to Research Methods Content: (n=57)

9 stated no changes needed

20 identified the need for more sessions / time

10 want more coverage of statistical analysis

Skills TO develop: (n=104)

Just under half wanted to develop all skills Interpreting data was identified by 22%

Skills NOT developed: (n=47)

100% stated that they had not sufficiently developed data analysis skills

Key findings

- There is no difference in outcomes (grades) by mode of learning
- There is the need incorporate more statistical analysis and interpretation of data into our teaching
- Level of education does not seem to have impacted on grades. Those with A Levels or Dip HE (n=8) did as well as those educated to degree level
- Interestingly of the 7 who failed their dissertation on first attempt 4 have an honours degree, 2 a medical degree and one an unclassified degree. None had lower entry qualifications. Evenly spread across overseas (4)/ home students (3).

Changes to date as a result of study

- We have introduced more 'workshop' teaching sessions where students can work in small groups to access, interpret and discuss real world research. Online activities to be developed for distance learners
- We have incorporated more online activities to facilitate engagement – these include online discussion forums, Wiki's plus games such as hangman & crossword puzzles

Changes to date as a result of study(2)

 More videos and podcasts incorporated as these have been well evaluated.

 Voice emails have been well received by the online students – especially useful for providing feedback

 Skype well evaluated as this provided 'human' contact with online students

The future

- To continue to gain to student feedback and develop online material in line with this (Evaluation: studying consequences of actions)
- To continue to evaluate and develop our online material
- To provide a range of material that will engage all students
- To work towards a 'community of learners' so students can support each other regardless of mode of learning

Recommendations

- To develop strategies that will facilitate online, student focussed learning communities (Specify Leaning - Strategy Identifying general finds)
- To facilitate the integration our Masters students into the wider research culture within the University (RiT)
- Revisit Action Learning Cycle

And finally

..... thank you for listening

We would appreciate you sharing your thoughts and experiences.

Questions also welcome!