



BERGEN UNIVERSITY
COLLEGE



BETANIEN
deaconal university college

Critical appraisal of a scientific article

Hilde Smith-Strøm, Assistant professor, MSc/RN, Betanien Deaconal University College

Hanne Tuntland, Assistant professor, MSc/OT, Bergen University College

Monica Nortvedt, Associated professor, PhD, Bergen University College

3rd International Conference of Evidence-Based Health Care
Teachers & Developers

Sicily 2005

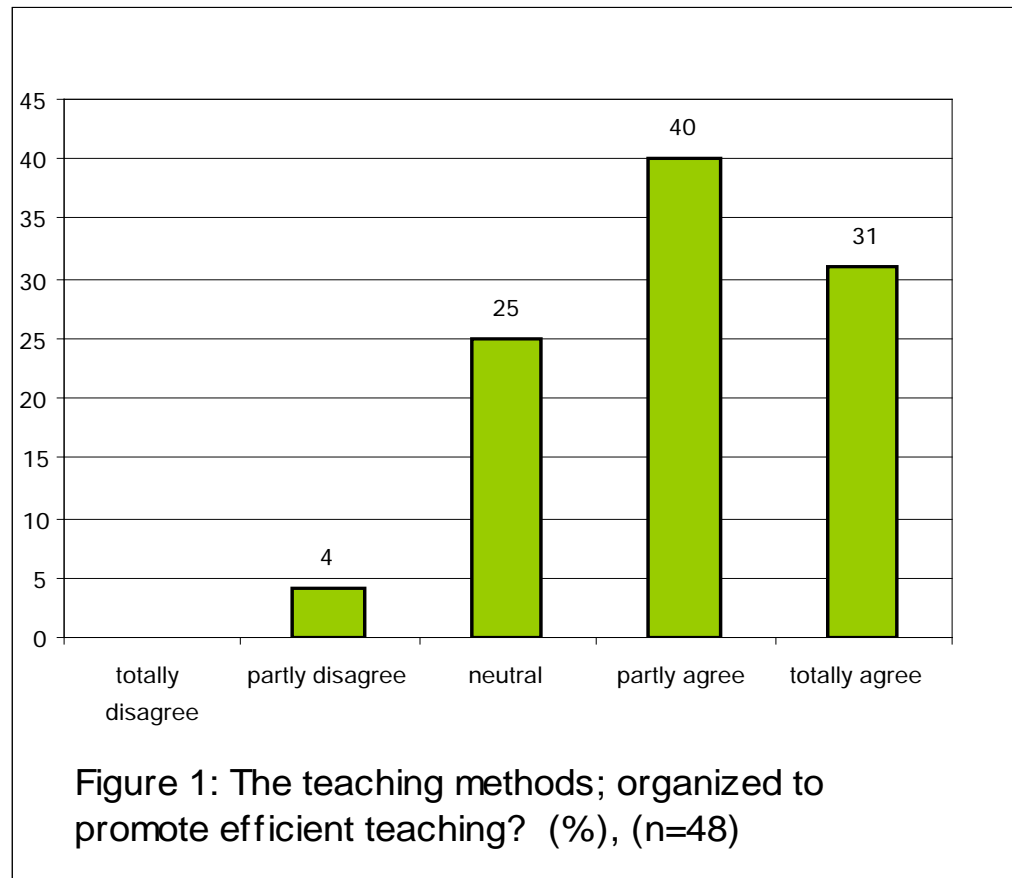
- Background
 - Betanien Deaconal University College, Norway, wanted in 2004/2005 to strengthen evidence-based practice (EBP) in education
 - Nurses use only a limited amount of scientific evidence to secure good health care
- Goals
 - The aim with this course is that the students should be able to search, read and critically appraise the research

- **Sample**
 - Students in the 2nd year education in nursing participated in this program
- **Intervention**
 - Construction of a manual in how to critically appraise a scientific article
 - Train the students in steps 1, 2 and 3 in EBP
 - Formulate an answerable question
 - Search
 - Critically appraise the research
 - Two scientific articles were delivered to the students
 - The research process and a manual in how to appraise an article, were used as methods in evaluating the articles
 - Group exam
 - Evaluation of the course
 - Structured questionnaire

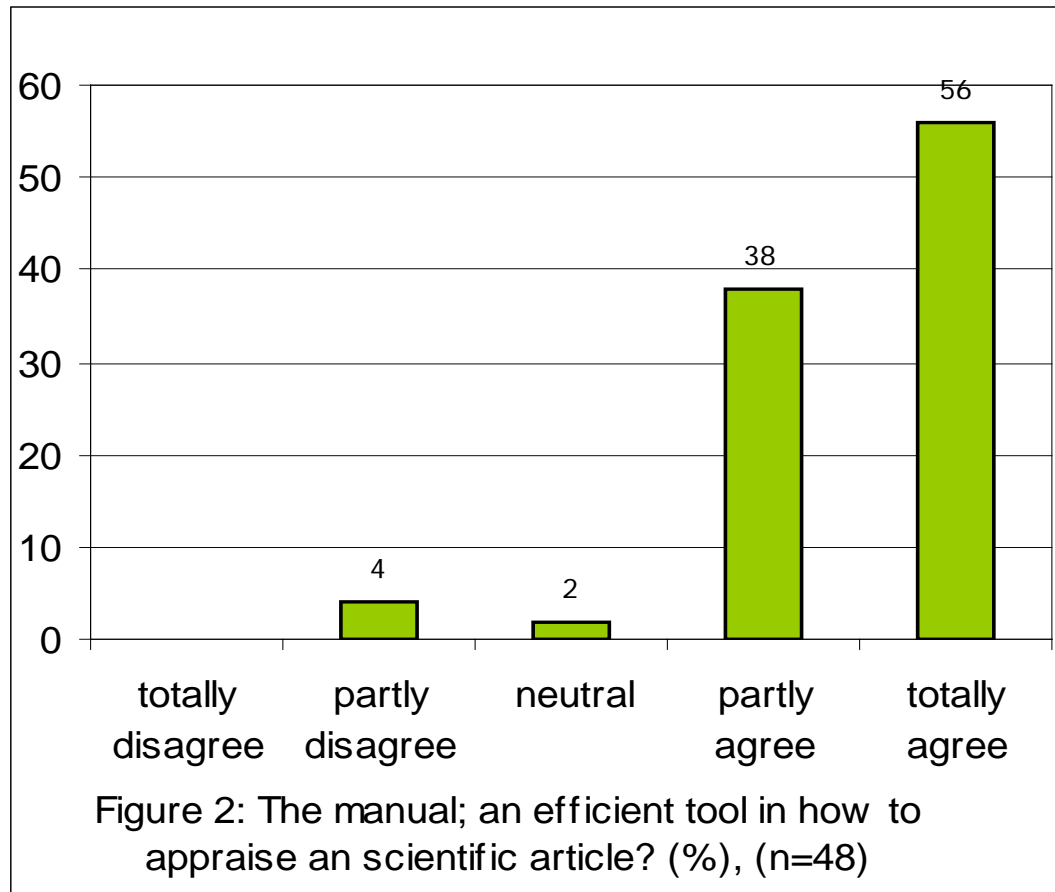
Methods; Organization

- Organization
 - 1 day for each part of the research process were utilized
 - Structure:
 - 2 – 3 hours of teaching in the actual part of the research process
 - Group work where the group appraised the articles in the actual part of the research process, for example sample
 - Interactive plenum discussions
- 2 days were spent in training the students in how to track down the best evidence

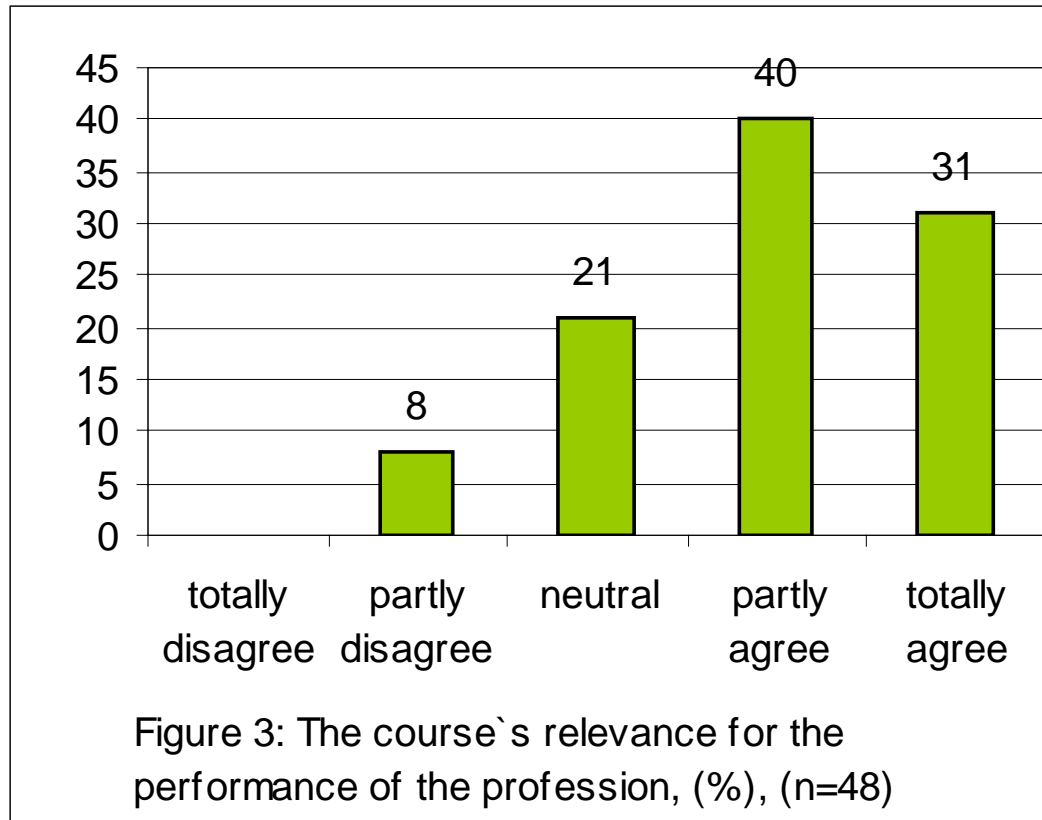
Results



Results



Results



Conclusion



- The results from the evaluation show that most of the students reported that teaching in steps 1, 2 and 3 in EBP was useful in critical appraisal of a scientific article. The results from the exam supported this
- The manual was an important tool in this process
- Students participating in the lecture, group work and plenum discussion was high
- Knowledge about scientific methods and use will make the students able to read, appraise and use scientific results in their nursing practice
- This can promote evidence-based nursing and contribute to quality improvement in the health care system