COLLABORATION BETWEEN LIBRARIANS AND TEACHERS

A CHALLENGE FOR MEDICAL EDUCATION
IN THE INFORMATION SOCIETY ERA

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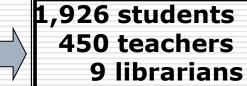
Czech Republic



University founded **1573**



Faculty of Medicine **M** & Dentistry 2008/9





OUTLINE

- Introduction
 - Collaboration definition and benefits
- □ Background (2006-2008)
 - Research project : EBM implementation in medical curricula with involvement of library staff
- New evidence-based pediatric curriculum (2008)
 - Librarians as facilitators
 - Search skills training
 - Feedback from students
- Emerging challenges
- Conclusions.

Introduction (1)Collaboration defined



- Sharing goals and visions
- Climate of trust and respect
- Carefully determined roles
- Long-term working relationships

Callison D.Keywords in instruction: Collaboration. School Library Media activities Monthly 1999;15(5):38-40.

Partnership assignments more "authentic"

Gross J., Kientz S. Developing information literacy: Collaborating for authentic learning. Teacher Librarian 1999; 27(1): 21-21.

Introduction (2) Benefits

- Implementation of evidence-based practice
 - Students guided to use published research to get
 POEM



"patient-oriented information that matters"

- Better educational environment
- Multiple learning styles
- Integration of conventional teaching & webbased learning
- Flexibility of graduates for performance in competitive environments.

Background

European Social Fund support

Research project 2006-2008

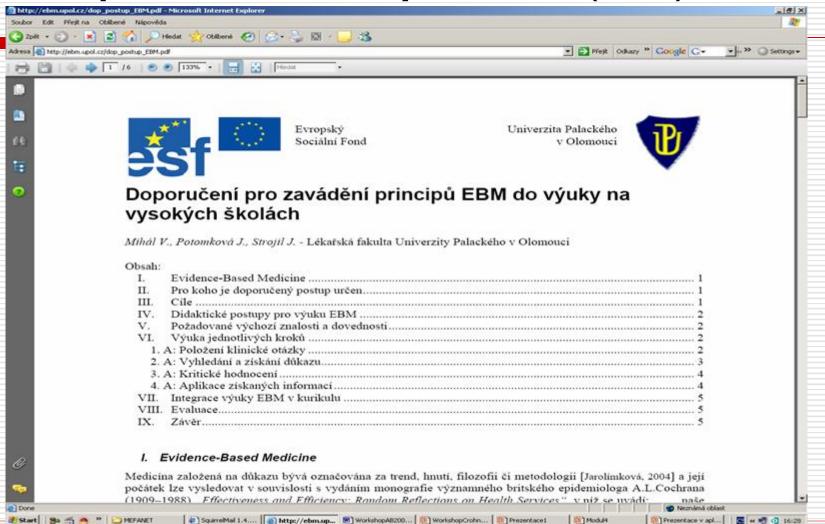
"Implementation of EBM principles into University curricula"

Participants:

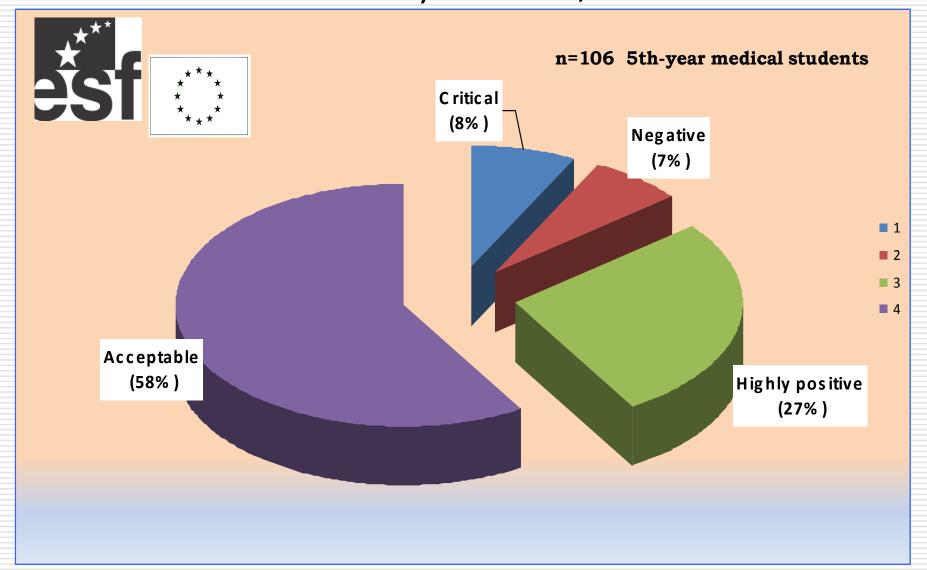
Palacky University Medical Faculty, Olomouc Faculty of Health Sciences, Ostrava

- Re-designing medical and health sciences curricula evidence-based practice
- Introduction of case-based bedside teaching & learning
 - Pediatric clerkship pilot scheme 2007/2008
- Evidence-based knowledge management
 Medical library staff involvement.

Recommendations for **Implementation of EBM Principles into University Curricula** (2008)



Pilot EBM pediatric curriculum : Final assessment Academic year 2007/2008



New **EBM pediatric curriculum** officially launched 2008-2009

Settings:

- University Hospital Pediatric Department
- Medical Library

Design:

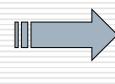
4-week teaching blocks

- 5th-year medical students
- 6 groups of 25/academic year
 - Faculty
 - 8 clinician-teachers
 - 2 medical librarians.

EBM pediatric curriculum

Philosophy







Disease-Oriented Evidence

Patient-Oriented

Evidence that Matters

EBM pediatric curriculumNew collaborative features

(1) Introductory lecture

- EBM basics, model of clinical scenario, PICO question; pyramid of evidence
- Demonstration of PubMed search followed by
 - Elective hands-on classes
 - One-on-one training in search skills
 - Consultations: clinical question search strategy
- Web tutorials for self-directed learning.
- (2) "Live" clinical scenarios

supplemented with a **review of current literature** to make bedside teaching & learning evidence-based and patient-oriented

(3) **Clinical case presentations**, discussion and evaluation.

E-learning

MEFANET - EduPortal

Palacky University Medical Education Portal

http://mefanet.upol.cz

- Web guide for literature search and interpretation of study designs
- Web-based model of an evidence-based case report
 - "Psychotherapy in adolescents with Crohn' disease"
 - Created by a student for students 09/2007; last literature search 09/2008
- Tips for successful presentation

EBM pediatric curriculum

Evaluation: Academic year 2008/2009

Re-designed pediatric curriculum implemented

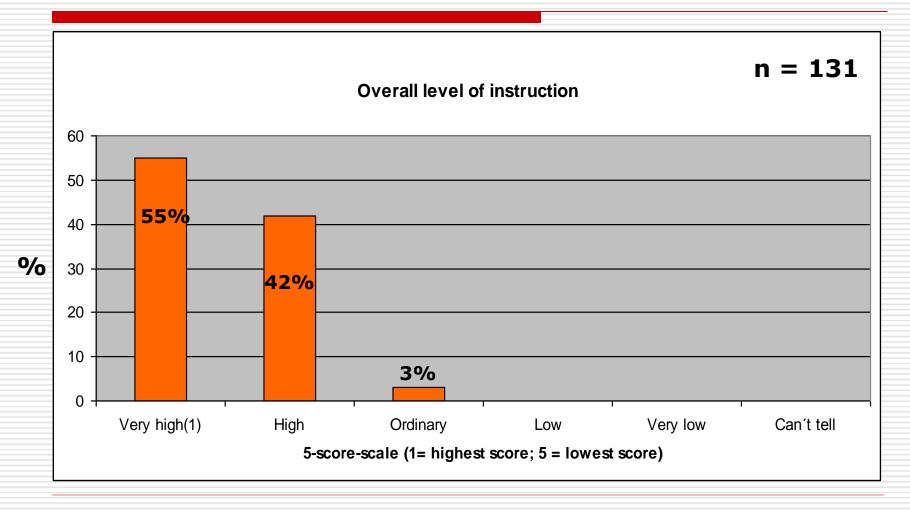
- 131 students
- Standard evaluation form

 Questionnaire on students' attitudes to search skills training and webbased education tools

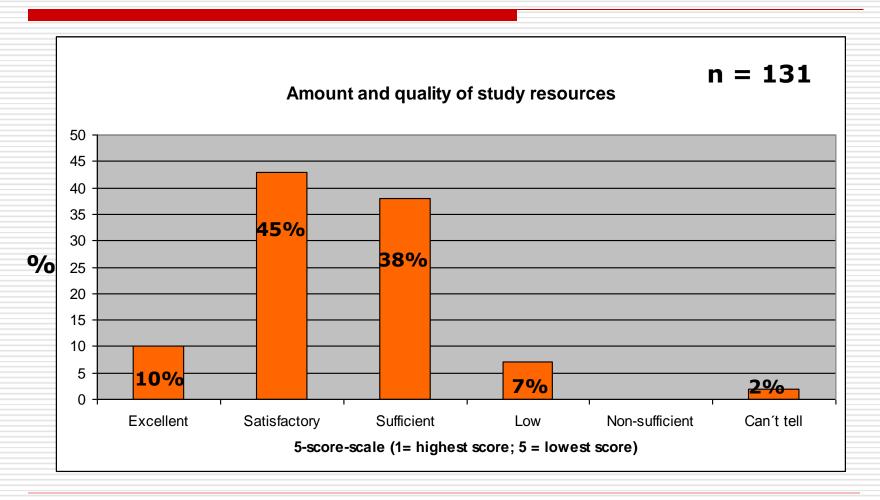
Standard evaluation form

n = 131
6 questions
5-score-scale
(1=highest score; 5=lowest score)

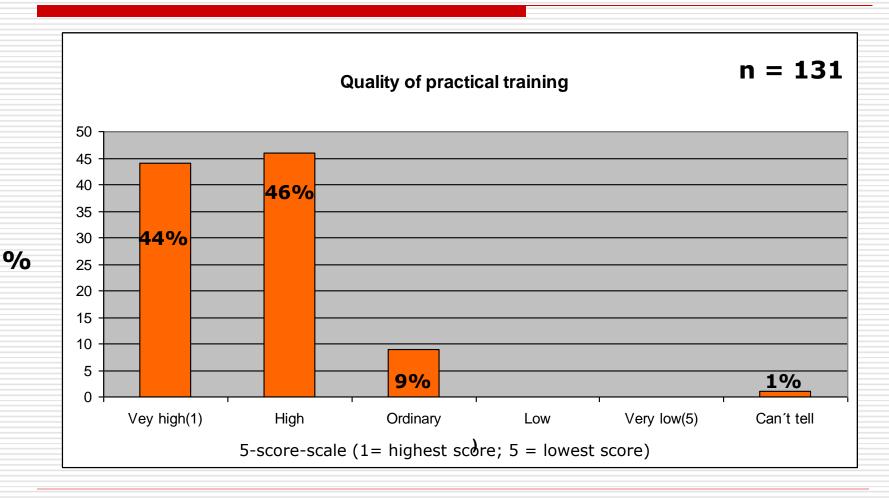
Question 1 Overall level of instruction



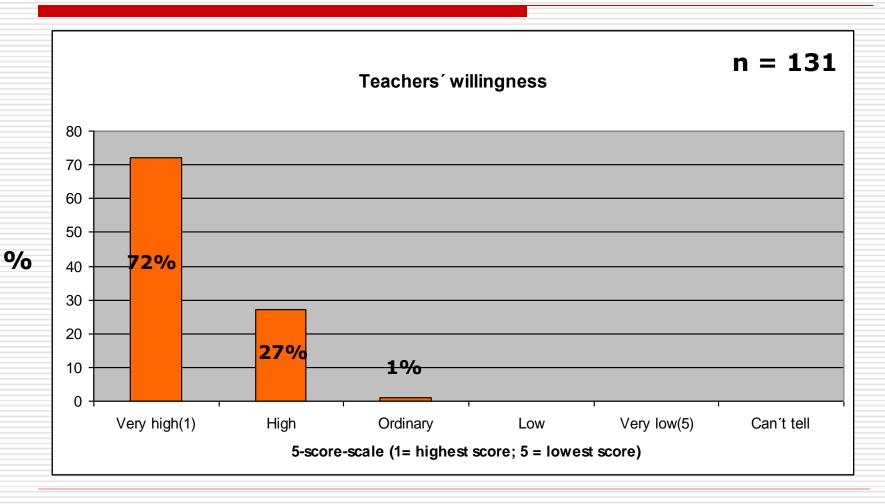
Question 2 **Amount and quality of study resources**



Question 3 Quality of practical training

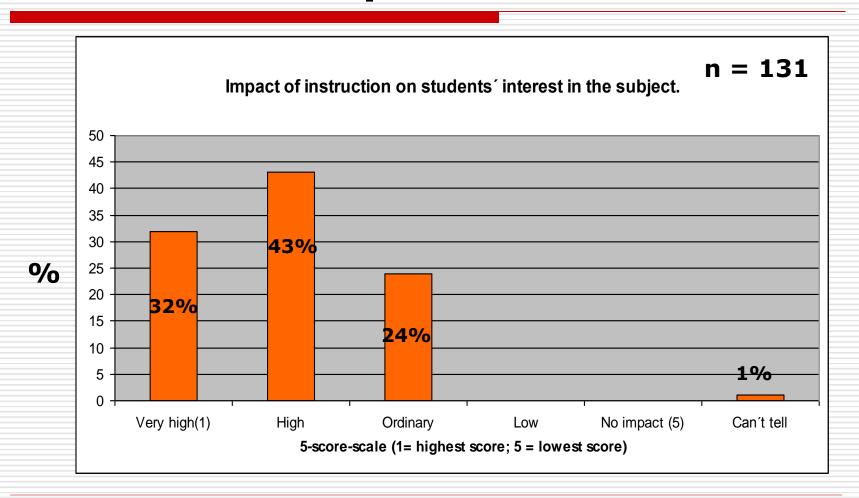


Question 4 **Teachers' willingness**

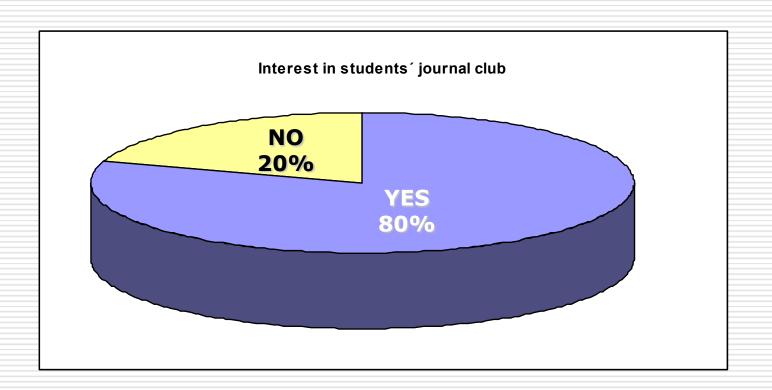


Question 5A

Impact of instruction on students' interest in discipline



Question 5B Interest in students' journal club



Search skills questionnaire

n = 131
5 questions
(Yes -No -Can't tell)

Search skills training Academic year 2008/2009

n = 131

Mode of instruction	Taught/Developed by	Status	Perceived value %		
			YES	NO	CAN'T TELL
Presentation + demonstration + web tutorial	Clinicians, librarians	Comp	82%	14%	4%
Subsequent interactive search skills training	Librarians	Elect	64%	15%	21%
Actual attendance 54%				46%	xxx
Standard course in search skills	Librarians, clinicians	Elect	17%	42%	39%

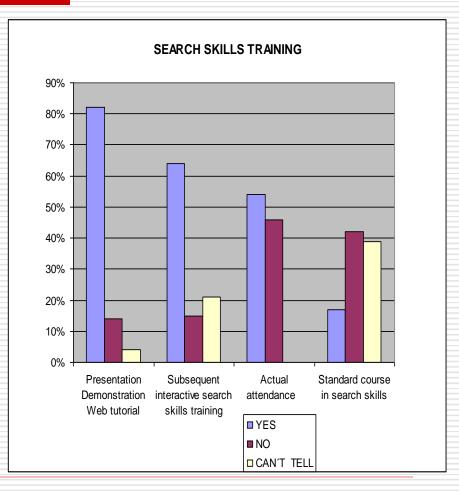
Comment: 14%/NO = insufficient without subsequent interactive training

Search Skills Training

Web-tutorial x interactive session







Pivec M, Baumann K. The role of adaptation and personalisation in classroom-based learning and in e-learning. J Universal Comp Scie 2004; 10(1):73-89.

Search skills training "Teaching & Learning Bites"

Where to find evidence?

- Multiple resources (search engines, DBs, PubMed)
- Summaries (Clinical Evidence, Dynamed, UpToDate)
- Library services (mediated-searching, document delivery) to enhance information retrieval

Why search for new evidence?

- CME
 - Long-life process (motivation, information needs recognition)
 - □ Data Information Knowledge Wisdom

"The evidence does not tell you what to do" (Guyatt, 2008)

Conclusions

- Pediatric curriculum has integrated evidence-based learning with traditional face-to-face and bedside teaching.
- Librarians serve as facilitators of information retrieval, critical appraisal, and presentation skills.
- Regularly updated web tutorials represent a useful educational tool supporting selfdirected learning



CONTACTS



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