



Teaching scientific competencies to first year medical students: A report

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Overview

- Curriculum development - PBL-seminar scientific competencies for first year medical students
- Students' evaluation - results from a 360-degree evaluation
- Conclusions - curricular development

Background

Critical user

Young academics¹

Quality of MD-thesis²

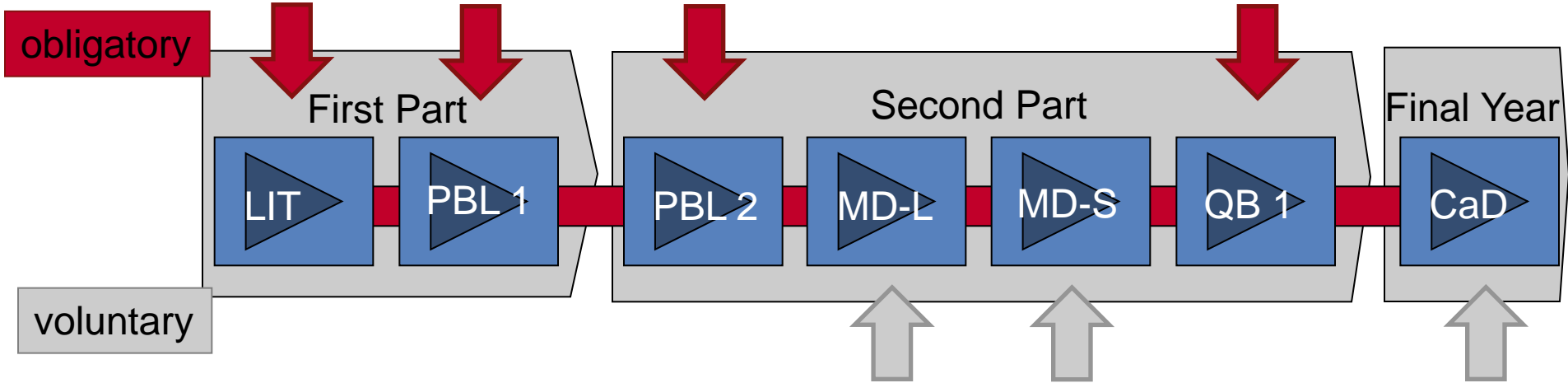
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Overall concept
(Freiburg faculty)

¹ DFG 2010 - Empfehlung der Senatskommission für klinische Forschung

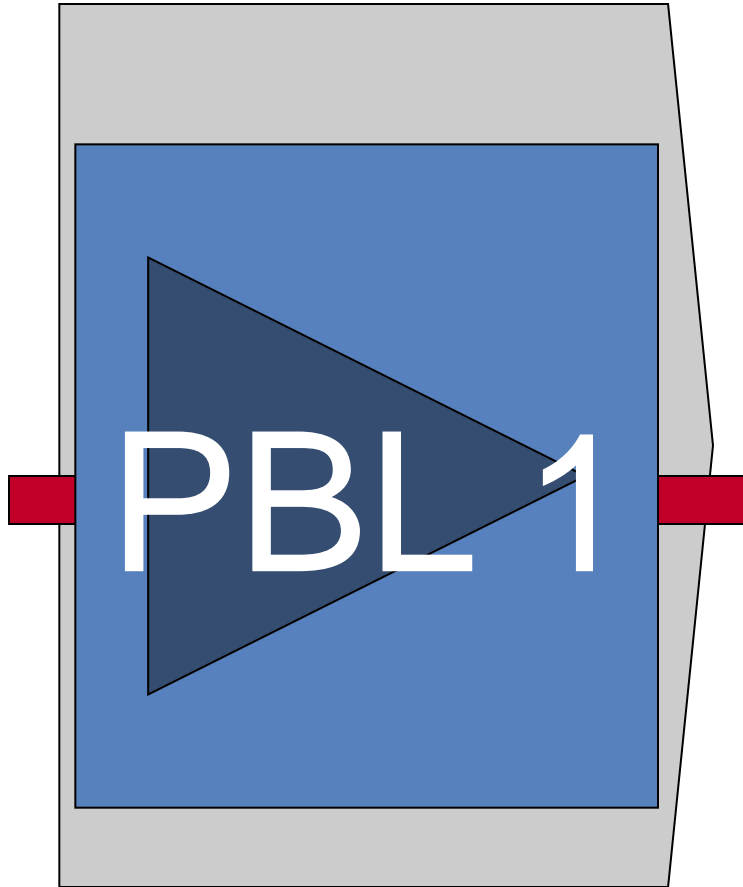
² Süddeutsche Zeitung 2010 - „Dr. med. Dünnbrettbohrer“

Longitudinal integration



- LIT = Introducing literature and information
- PBL 1 = Seminar scientific competencies 1
- PBL 2 = Seminar scientific competencies 2
- MD-L = MD-thesis introduction lectures
- MD-S = MD-thesis seminars
- QB 1 = QB Epidemiology
- CaD = Campus Day - EbM - guidelines

Scientific competencies 1



- Development of learning objectives for 1st year medical students
- Construction of PBL cases based on scientific studies

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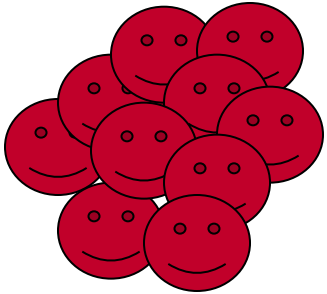
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Scientific competencies 1

360 students, 36 groups



10 weeks
90 min
Working on cases
Online materials

36 student tutors



Different academic
Fields
Preparatory training
Ongoing supervision



18 mentors

Different fields
Expert background
for tutors and
students



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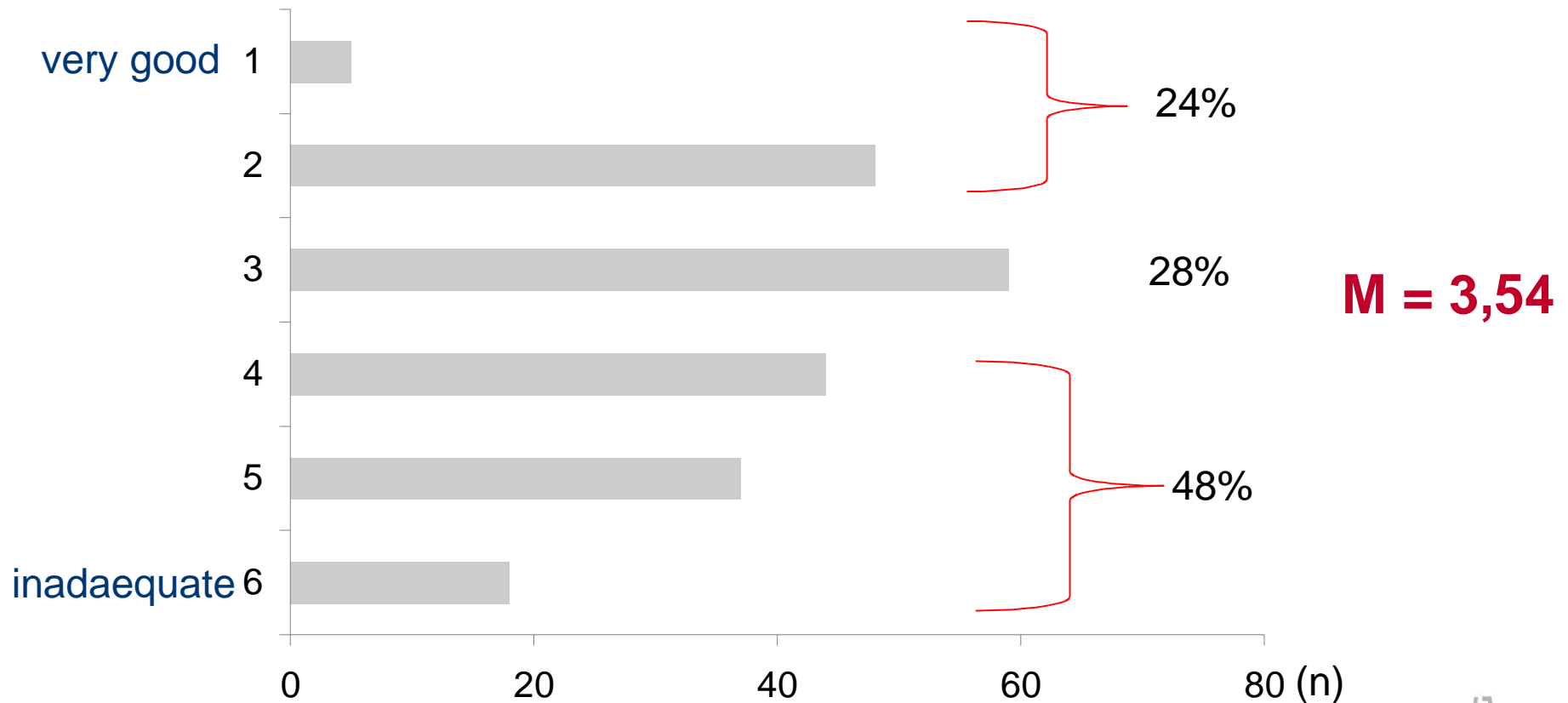
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Students' Evaluation

- Satisfaction
- PBL-Seminar
- Group interaction questionnaire
- Learning objectives (and assessment)
- Competencies

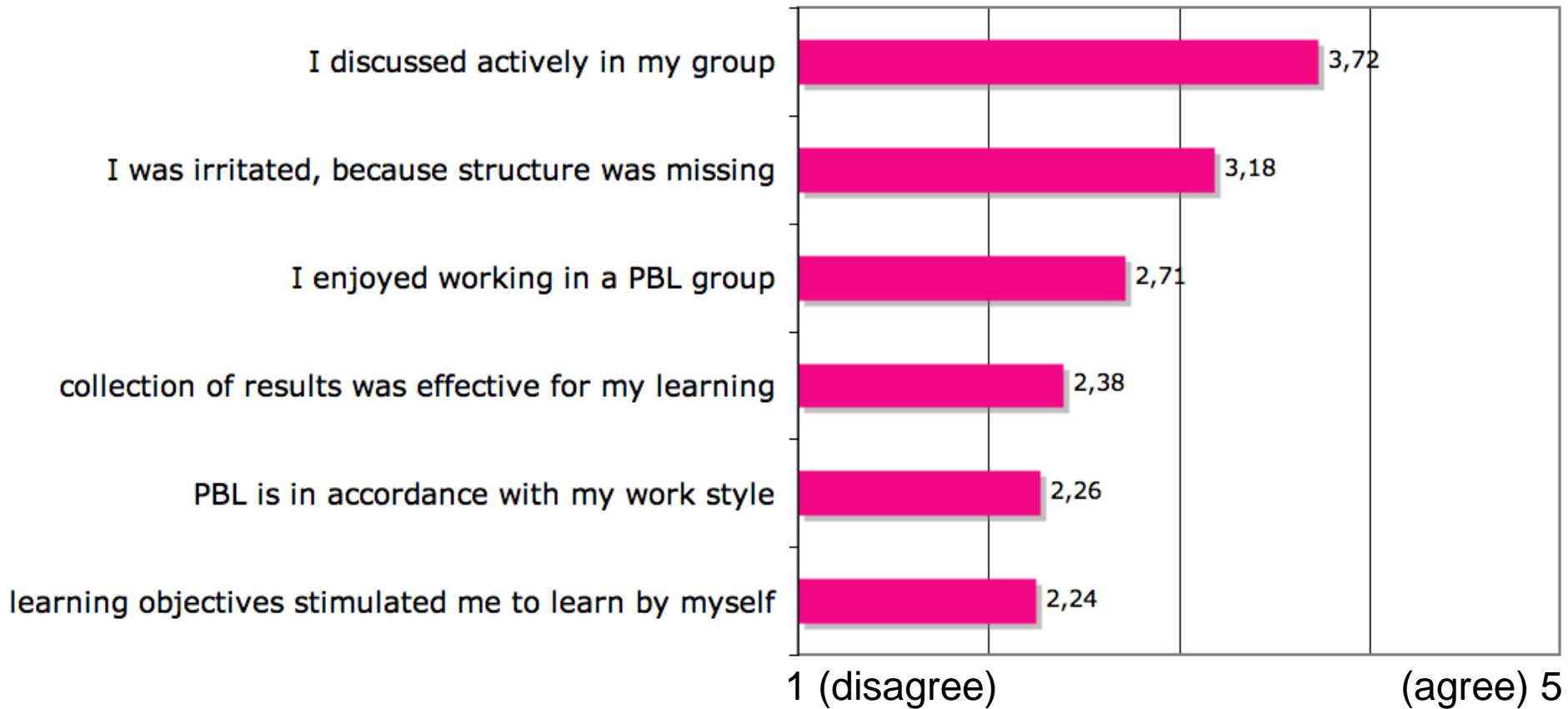
Students' satisfaction

Please grade the seminar.

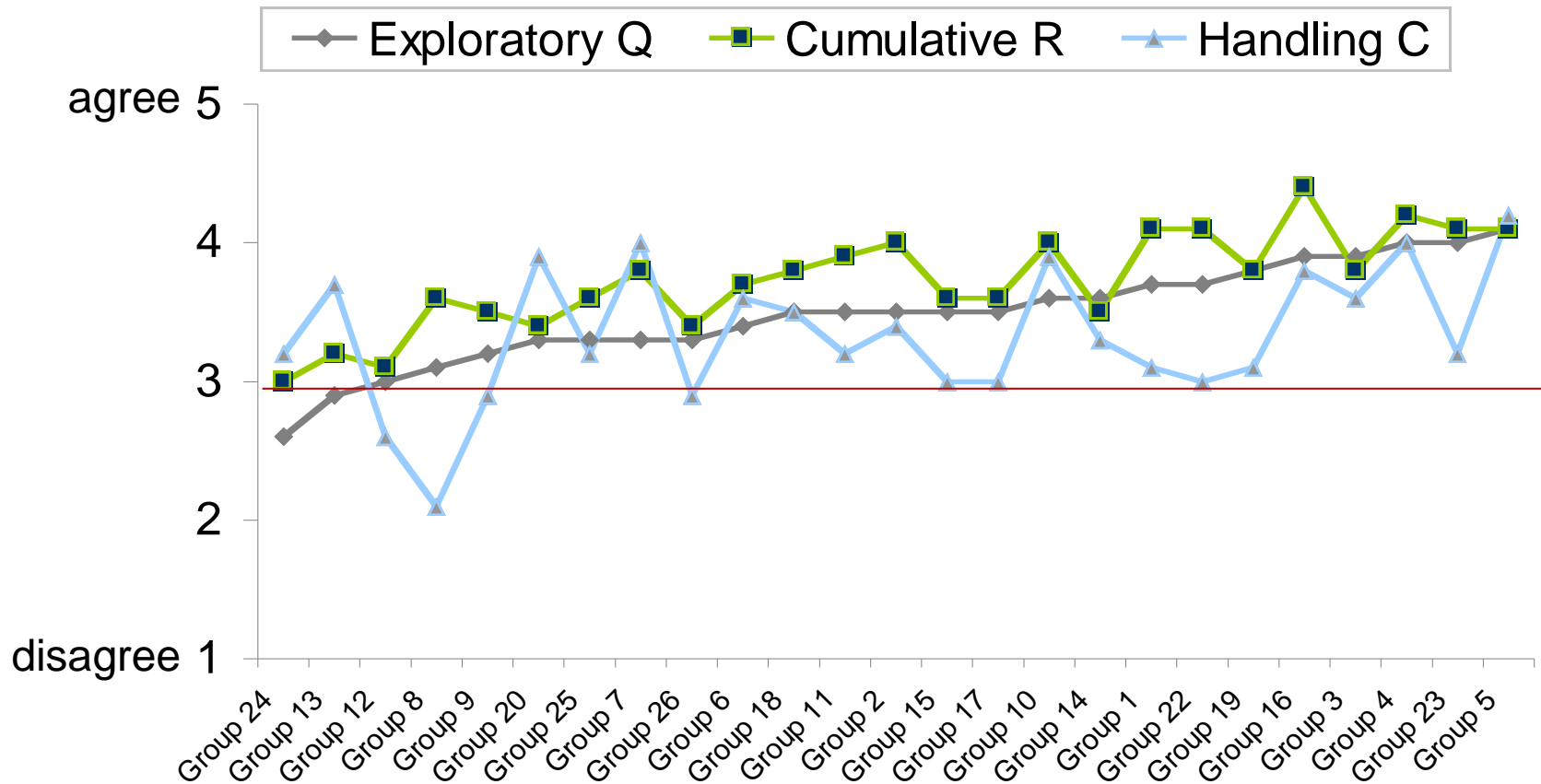


N = 215

PBL Evaluation

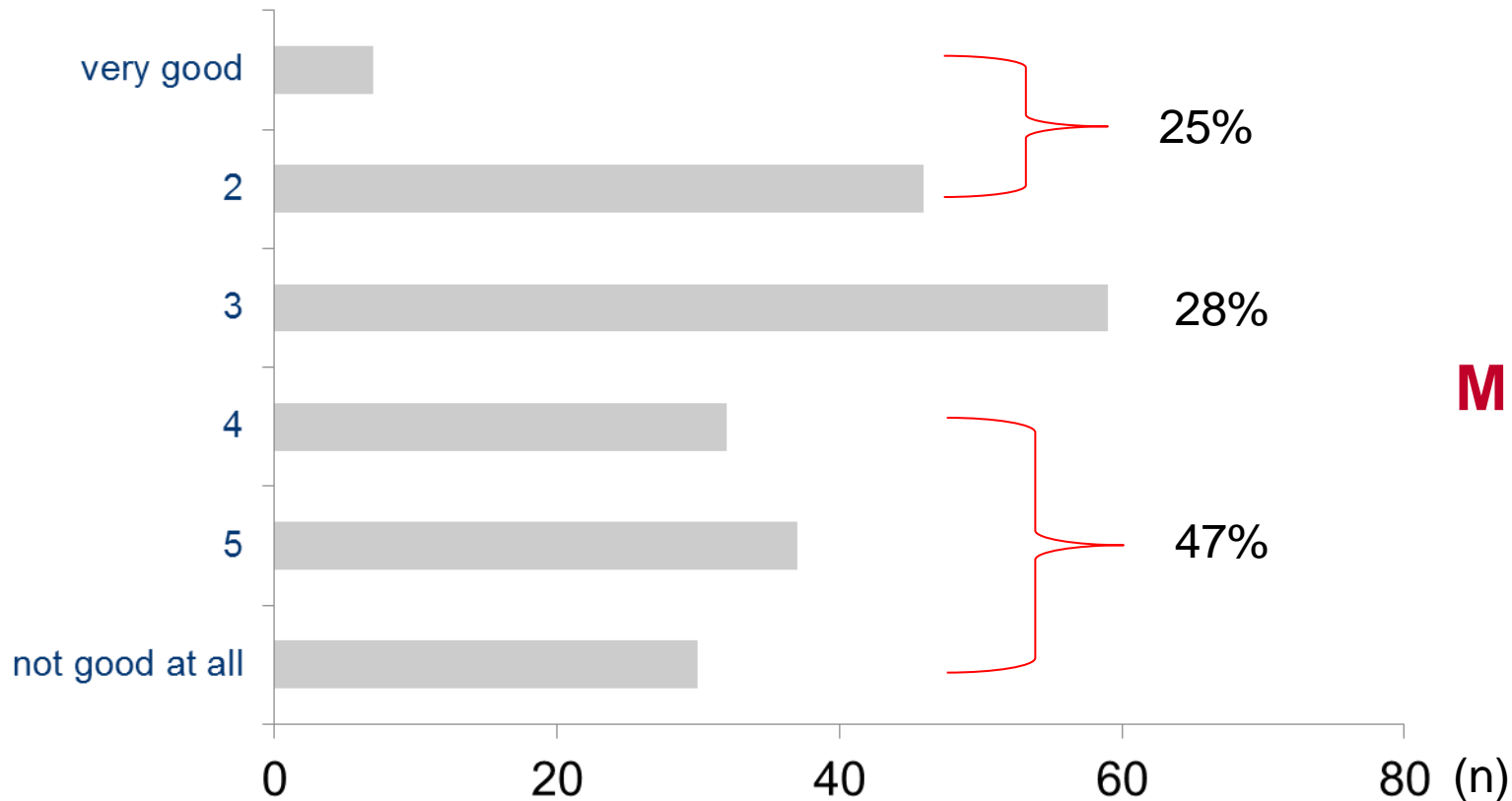


Group Interaction Questionnaire



Selfassessment Learning-Progress

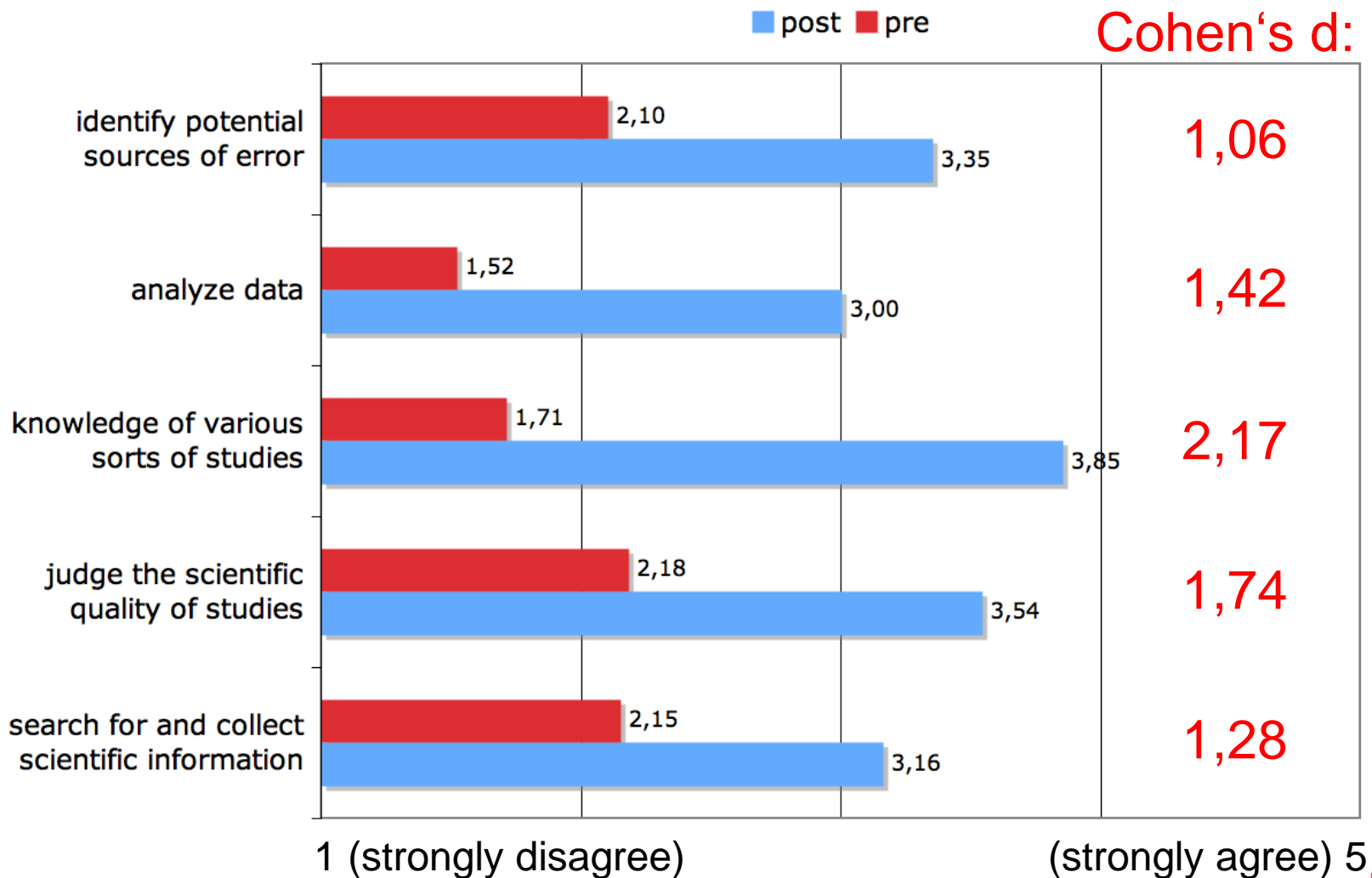
Evaluate your learning progress.



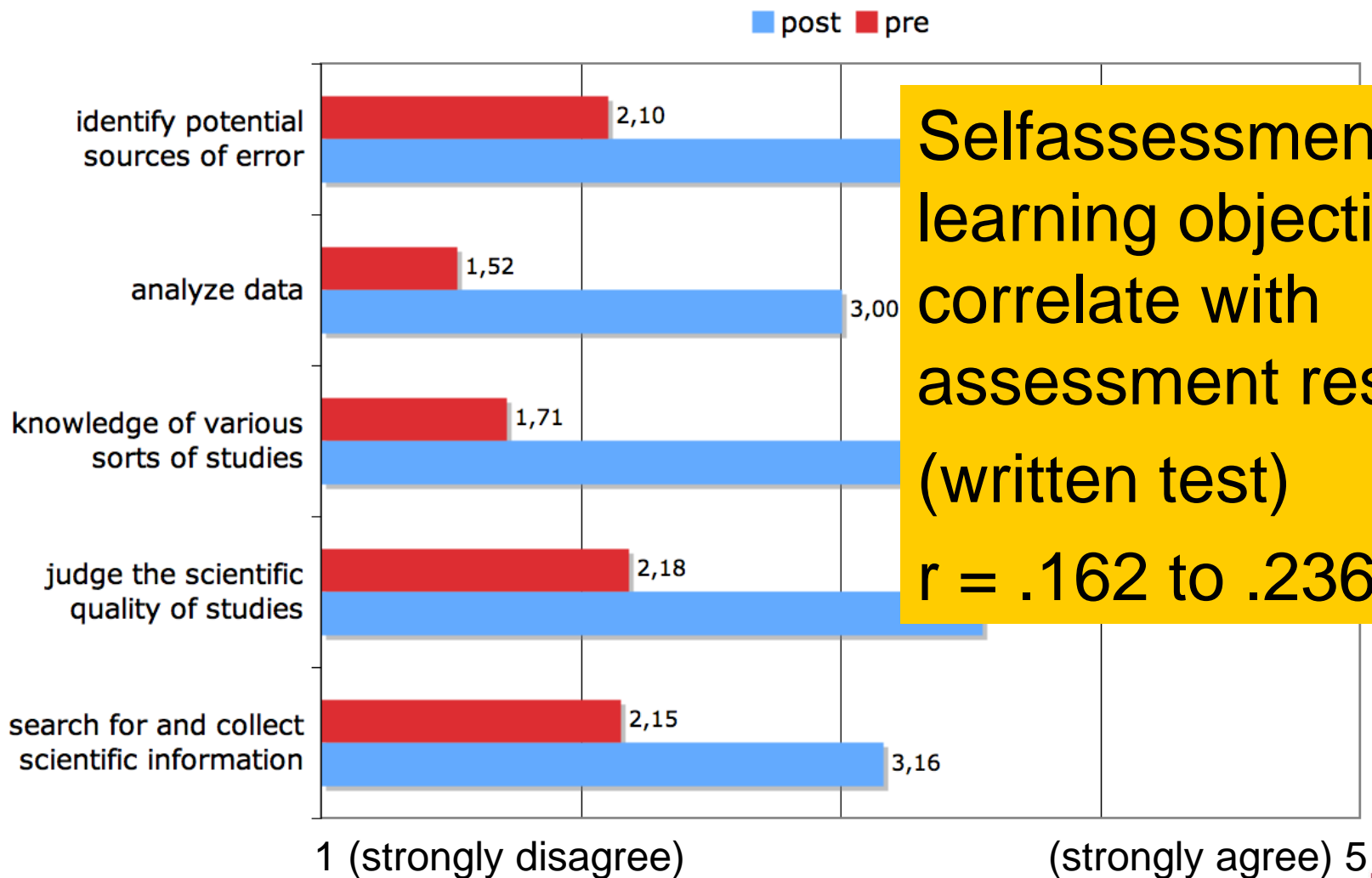
M = 3,64

N = 211

Learning objectives - retrospective

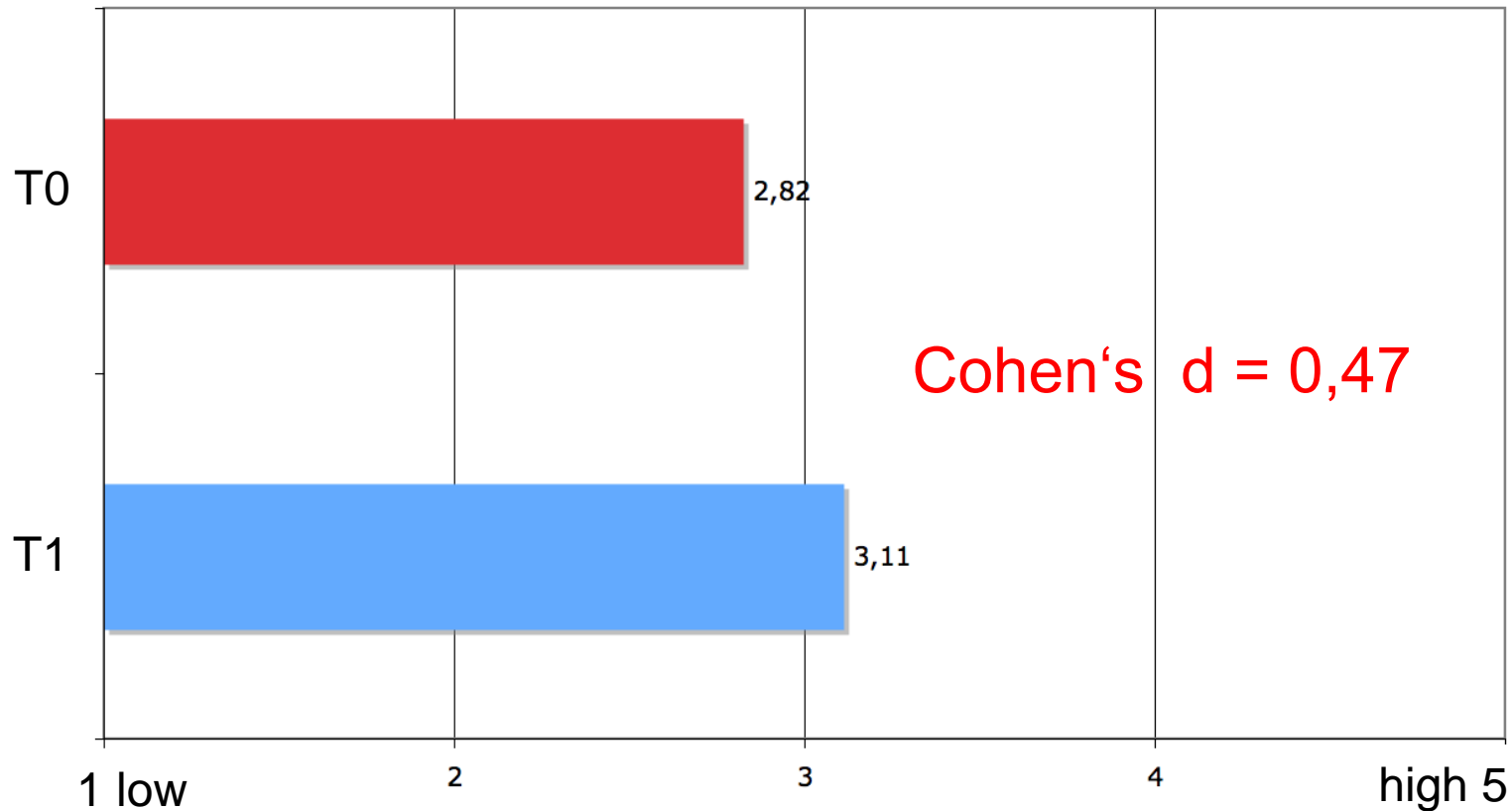


Learning objectives and assessment



Selfassessment of learning objectives correlate with assessment results (written test)
 $r = .162$ to $.236$

Selfassessment Competencies (FKM*)



Conclusions - Summer 2013

- Reformulate learning objectives
- New PBL cases (more difficult)
- „Progress Test” (3 times)
- Integrated lecture
- Overwork tutor-training

Thank you for your attention!