

OULUN YLIOPISTO
UNIVERSITY of OULU



TOPIK

RE-EDUCATION OF ADULT LEARNERS TO BACHELORS OF PHARMACY IN OULU, FINLAND

Henrik Ehlers, PhD

EAFP Meeting, May 18th, 2017, Helsinki



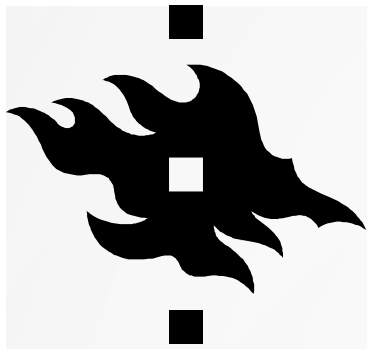
Elinkeino-, liikenne- ja
ympäristökeskus

HELSINGIN YLIOPISTO
HELSINGFORS UNIVERSITET
UNIVERSITY OF HELSINKI

Vipuvoimaa
EU:lta
2014–2020

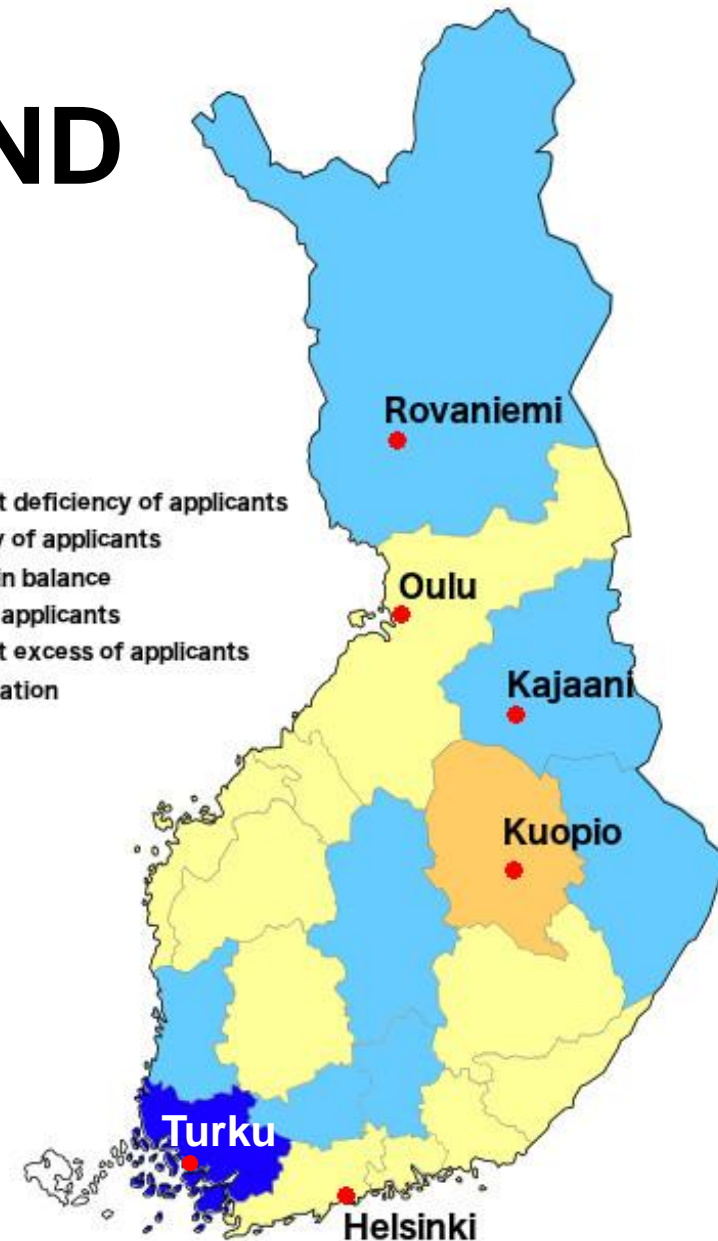
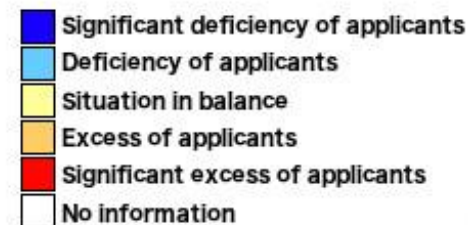


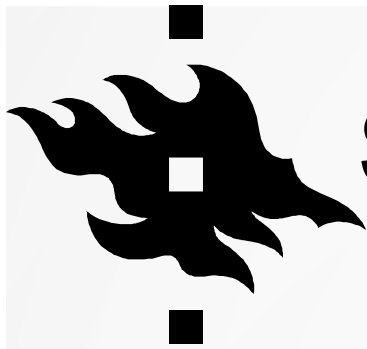
Euroopan unioni
Euroopan sosiaalirahasto



BACKGROUND

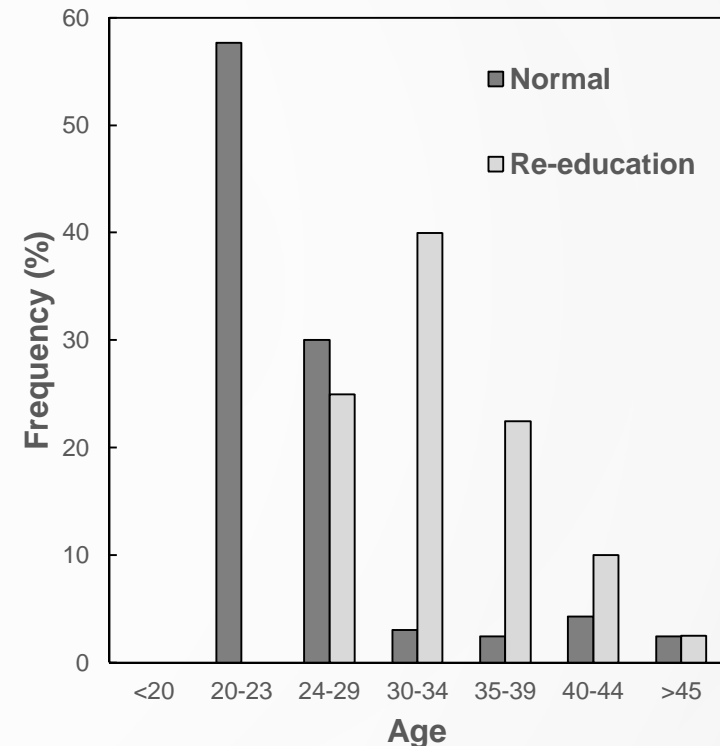
- There is a deficiency of competent applicants to positions in pharmacies in Northern Finland
- There are large structural changes in the Oulu region, and unemployment figures are high

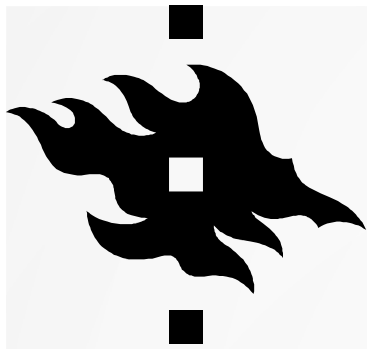




STUDENT DEMOGRAPHICS

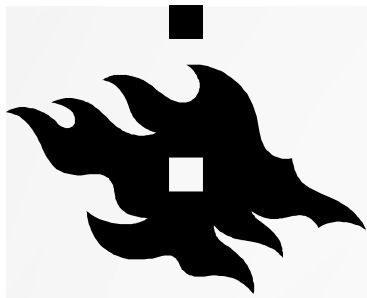
- Selection criteria:
 - Grades in previous studies (40%)
 - Relevance and amount of previous studies (30%)
 - Relevant work experience and motivational factors
- Female 82.5%, male 17.5%
- 15% PhD, 60% M.Sc, 25% B.Sc.
- 41 students were elected, of which 35 are still actively pursuing the degree



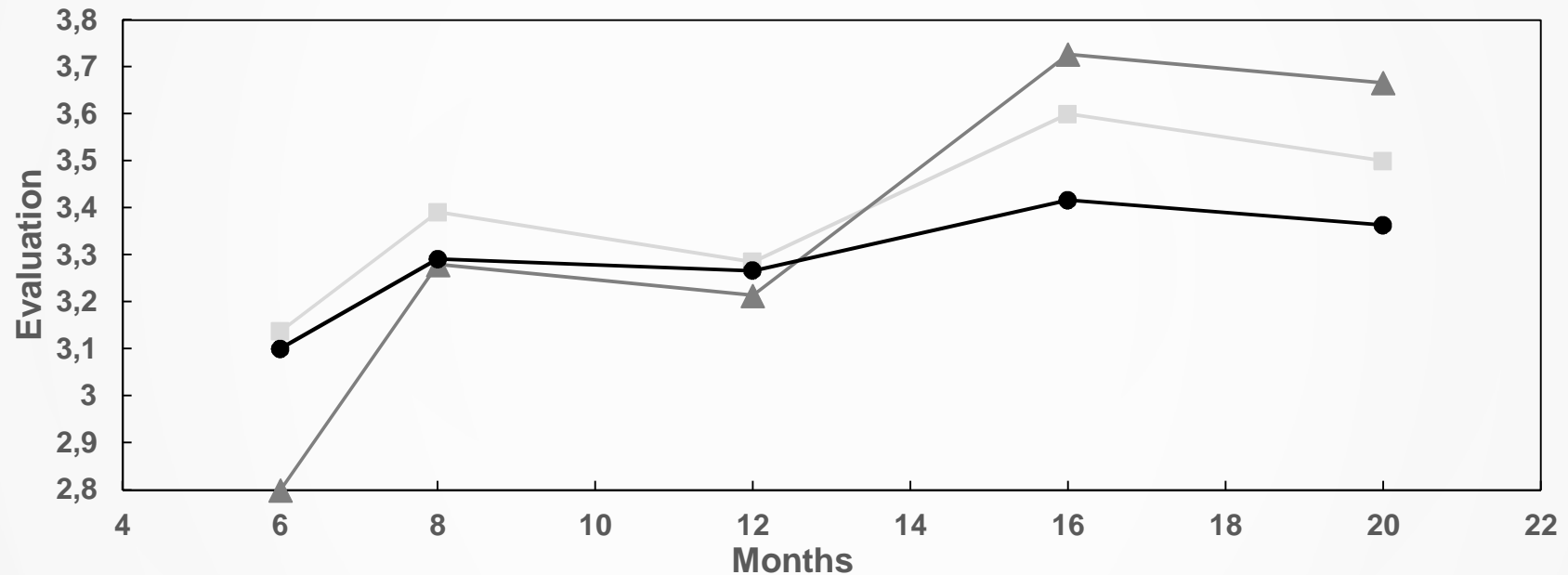


MATERIALS AND METHODS

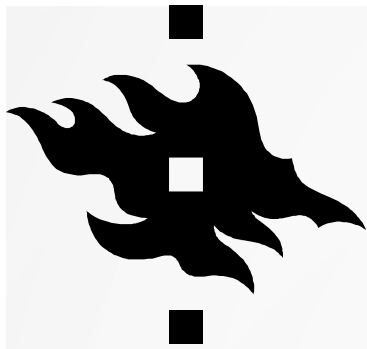
- Feedback collected at 6, 8, 12, 16 and 20 months
- Modified Likert-scale (1 - 4)
- Open questions
- Participation activity decreasing during the project from 75% at 6 months to 30% at 20 months



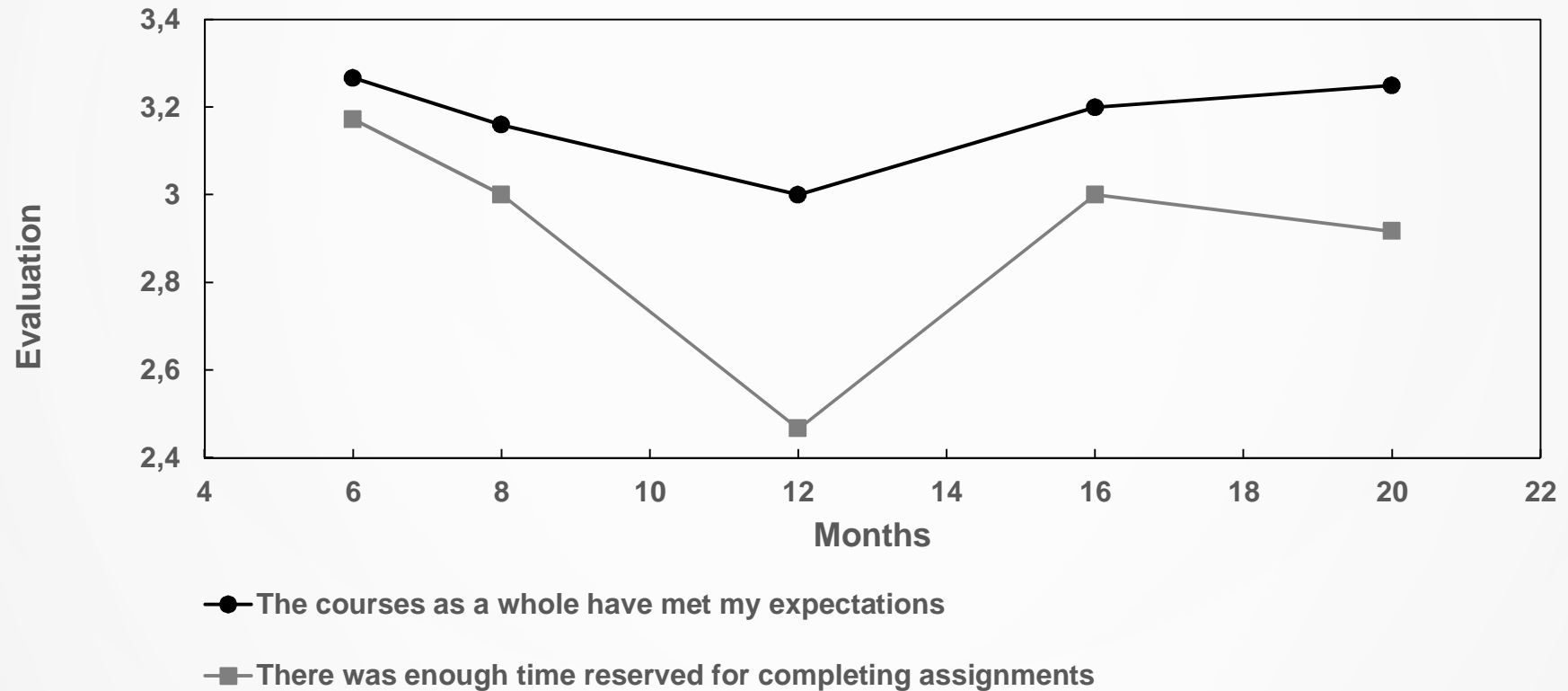
STUDENT PERCEPTION OF THE RE-EDUCATION PROGRAMME

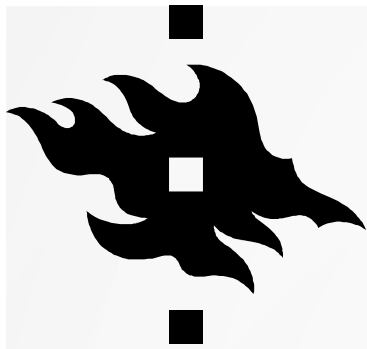


- The e-lectures and excercises for the re-education students only have functioned well
- ▲— The e-learning and multi-format teaching has functioned well
- I have achieved the goals set for the different coarces

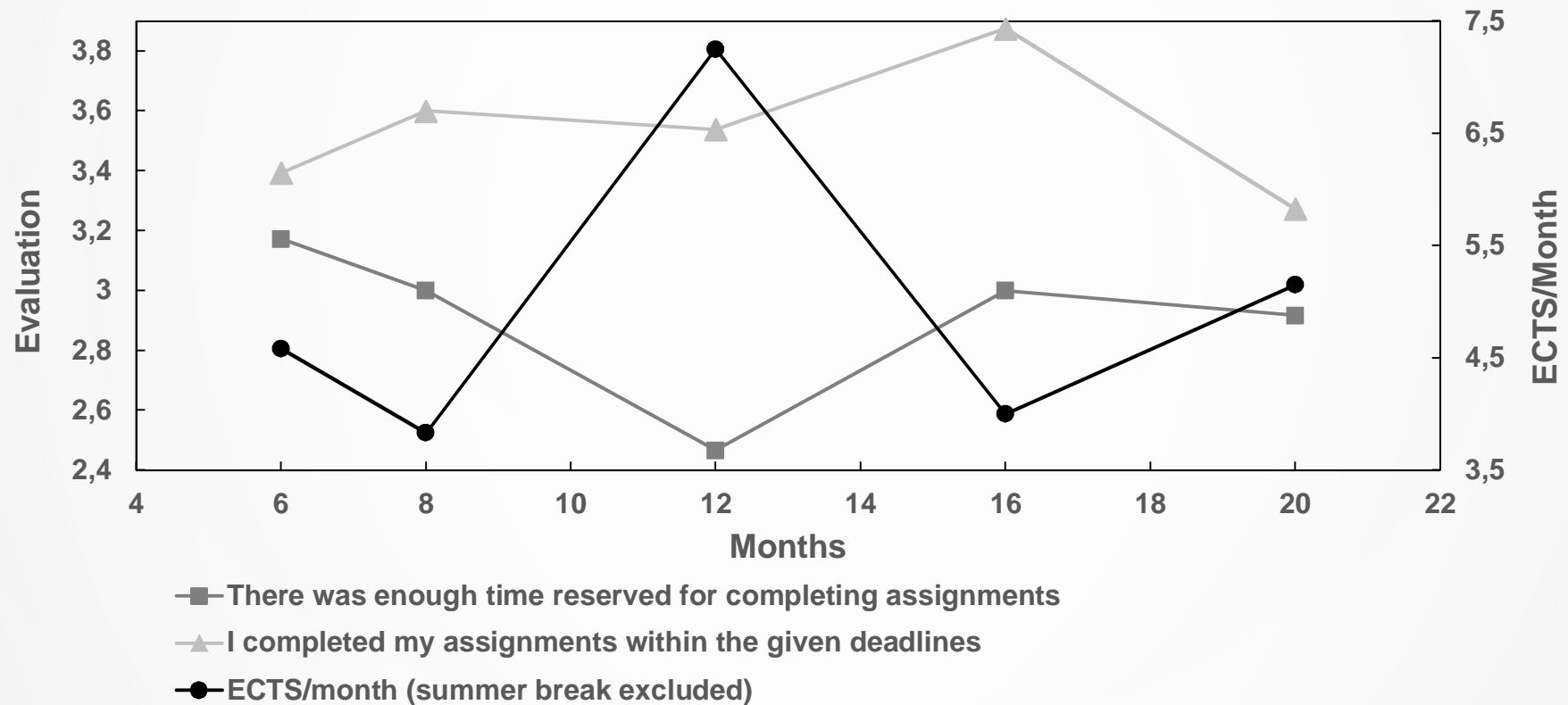


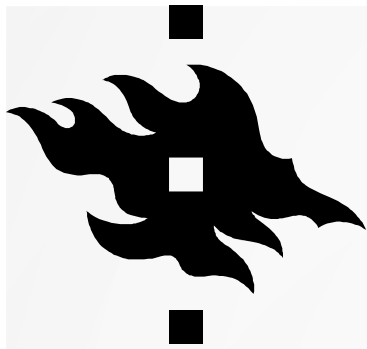
STUDENT PERCEPTION OF THE RE-EDUCATION PROGRAMME



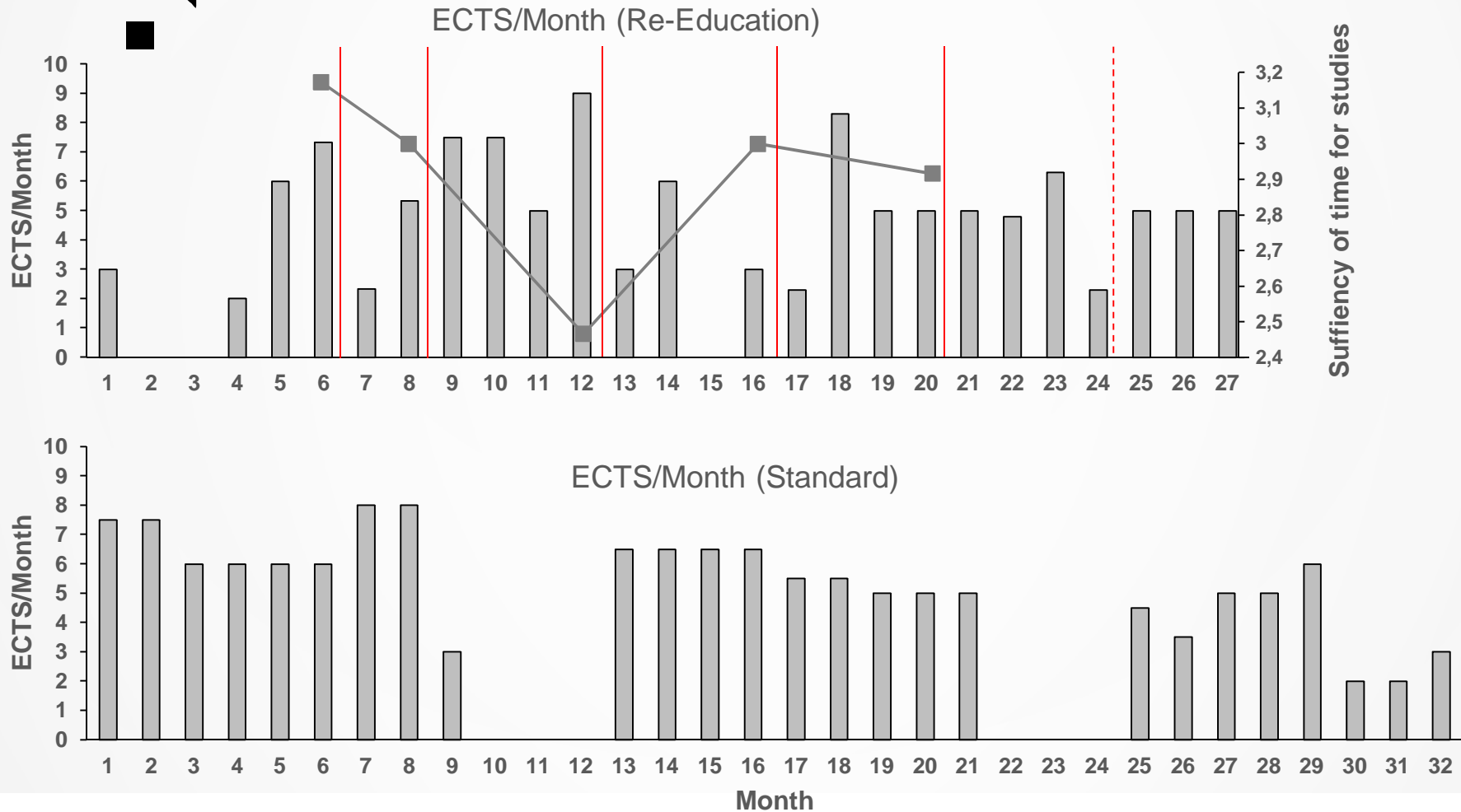


STUDENT PERCEPTION OF THE RE-EDUCATION PROGRAMME



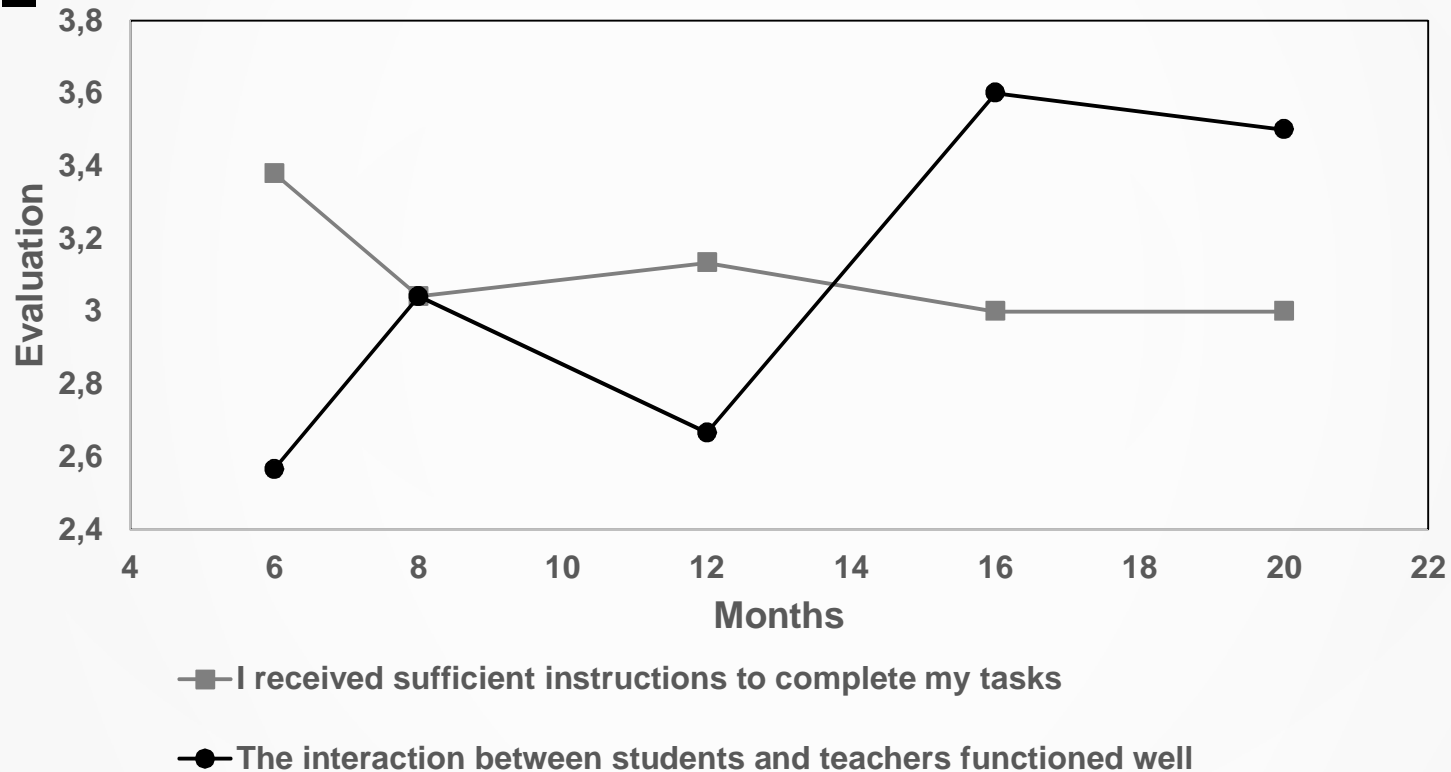


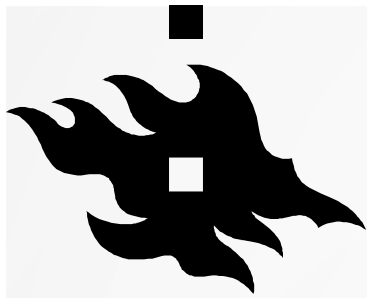
STUDENT PERCEPTION OF THE RE-EDUCATION PROGRAMME



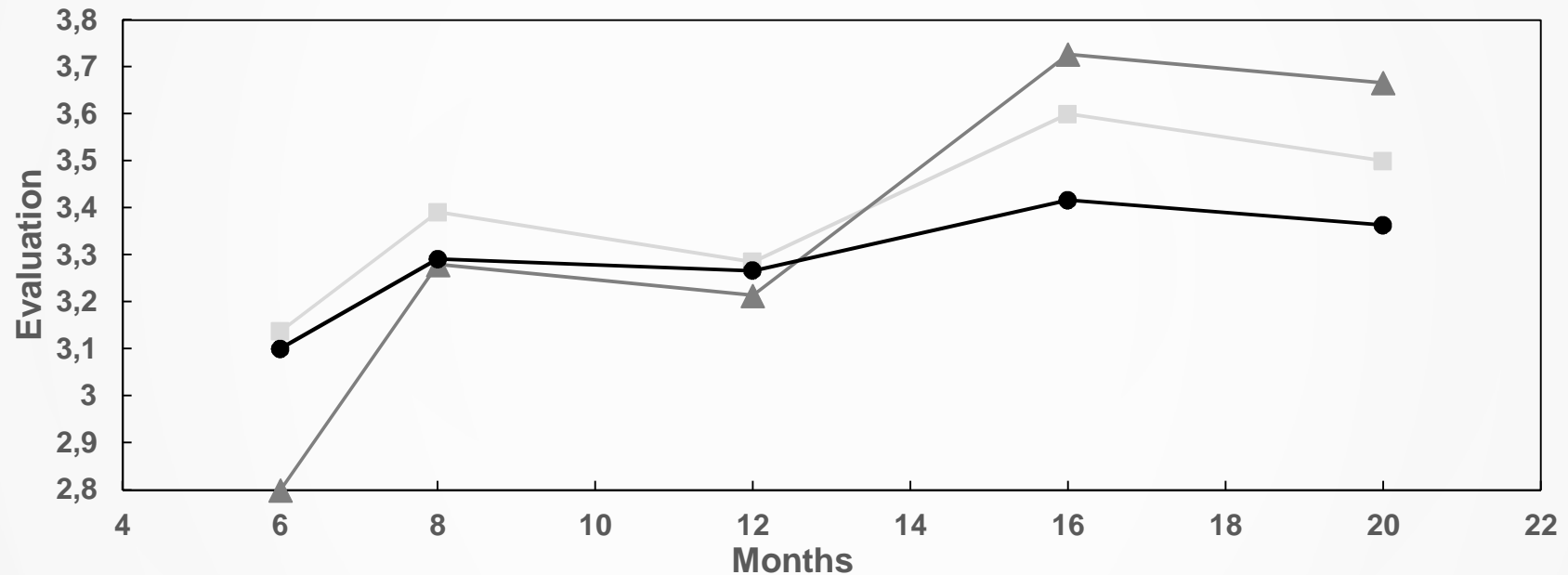


STUDENT PERCEPTION OF THE RE-EDUCATION PROGRAMME

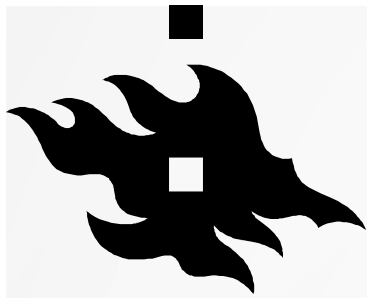




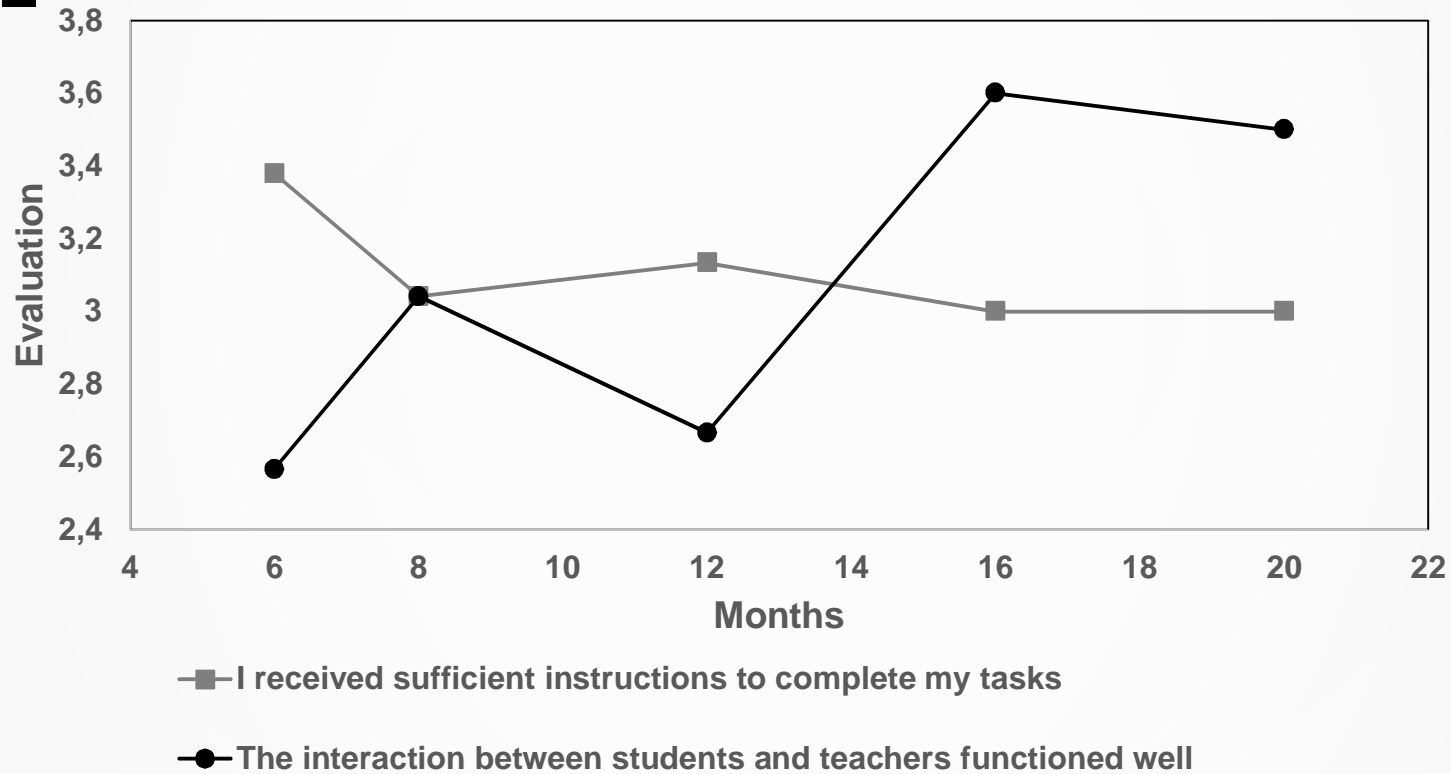
STUDENT PERCEPTION OF THE RE-EDUCATION PROGRAMME

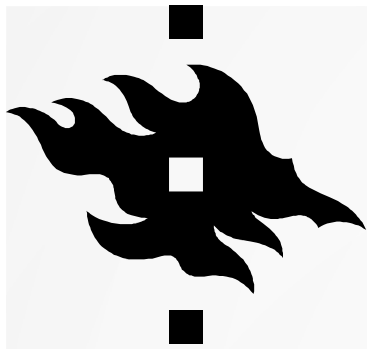


- The e-lectures and excercises for the re-education students only have functioned well
- ▲— The e-learning and multi-format teaching has functioned well
- I have achieved the goals set for the different coarses



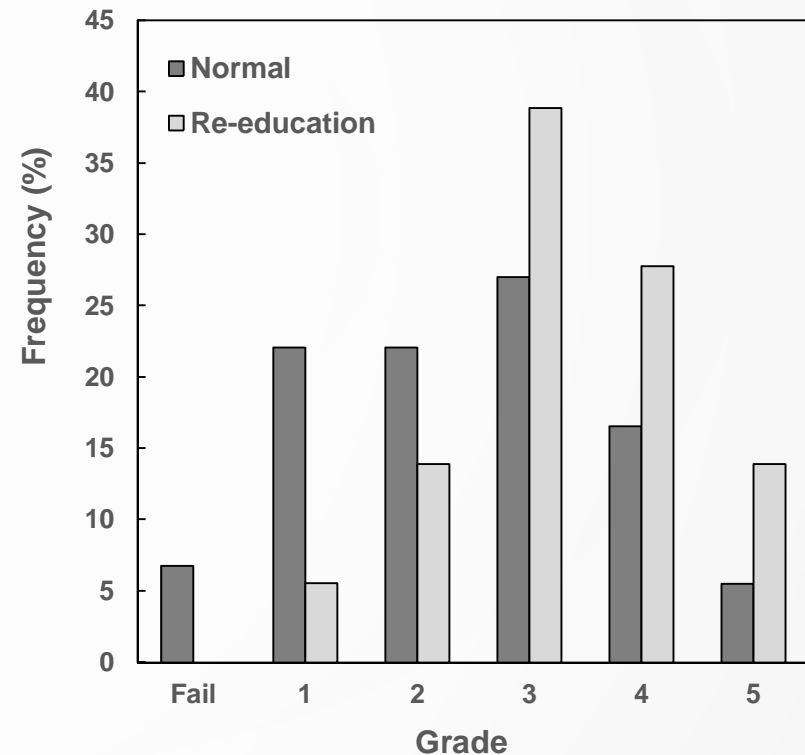
STUDENT PERCEPTION OF THE RE-EDUCATION PROGRAMME

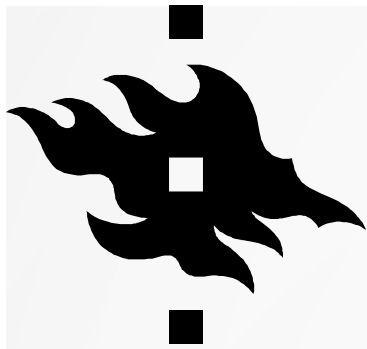




STUDENT PERFORMANCE

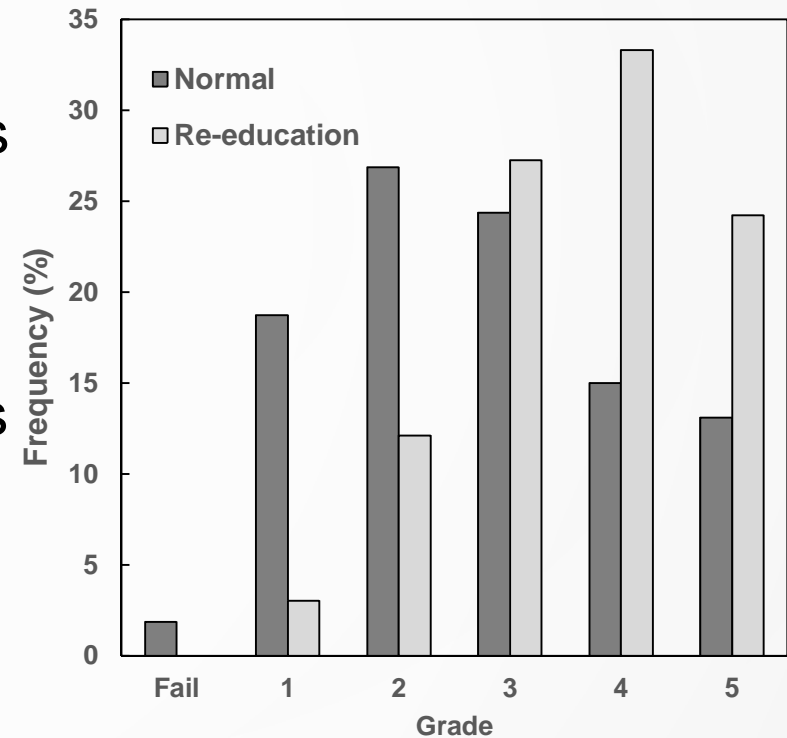
- Course: Medicinal preparations I
- Lecture course on dosage forms
- Integrated course
- e-lectures for the re-education programme
- Written assignment
- Final examination

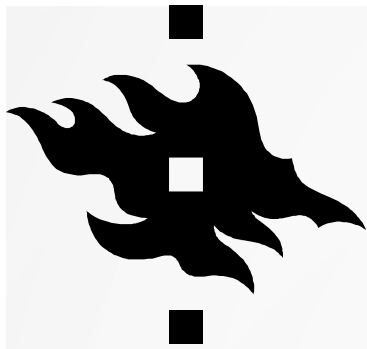




STUDENT PERFORMANCE

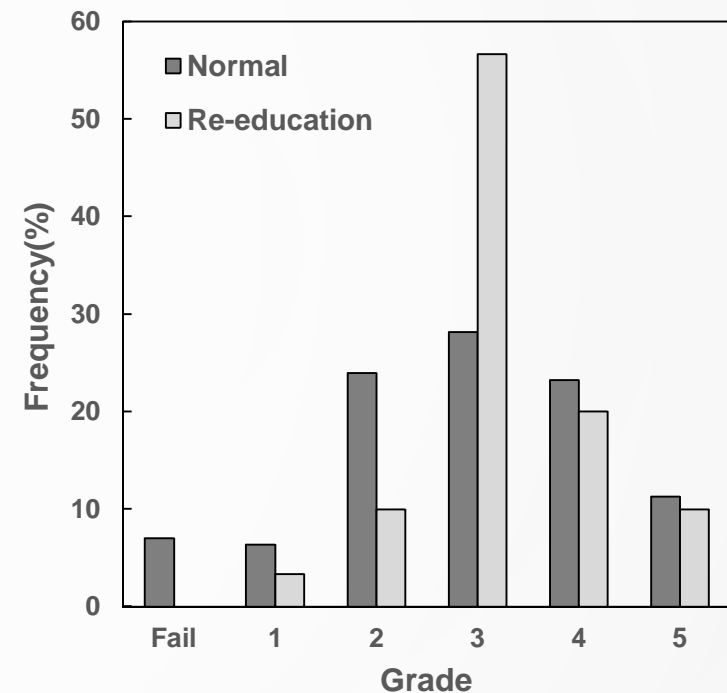
- Course: Medicinal preparations II
- Laboratory course on dosage forms
- Integrated course
- Identical lab work, preliminary tasks by e-learning
- Seminar presentation
- Final examination

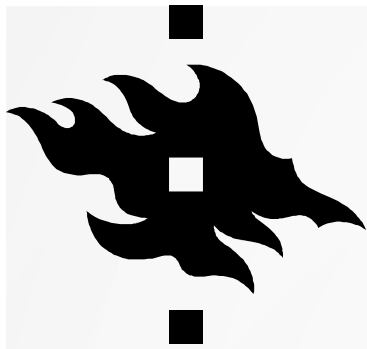




STUDENT PERFORMANCE

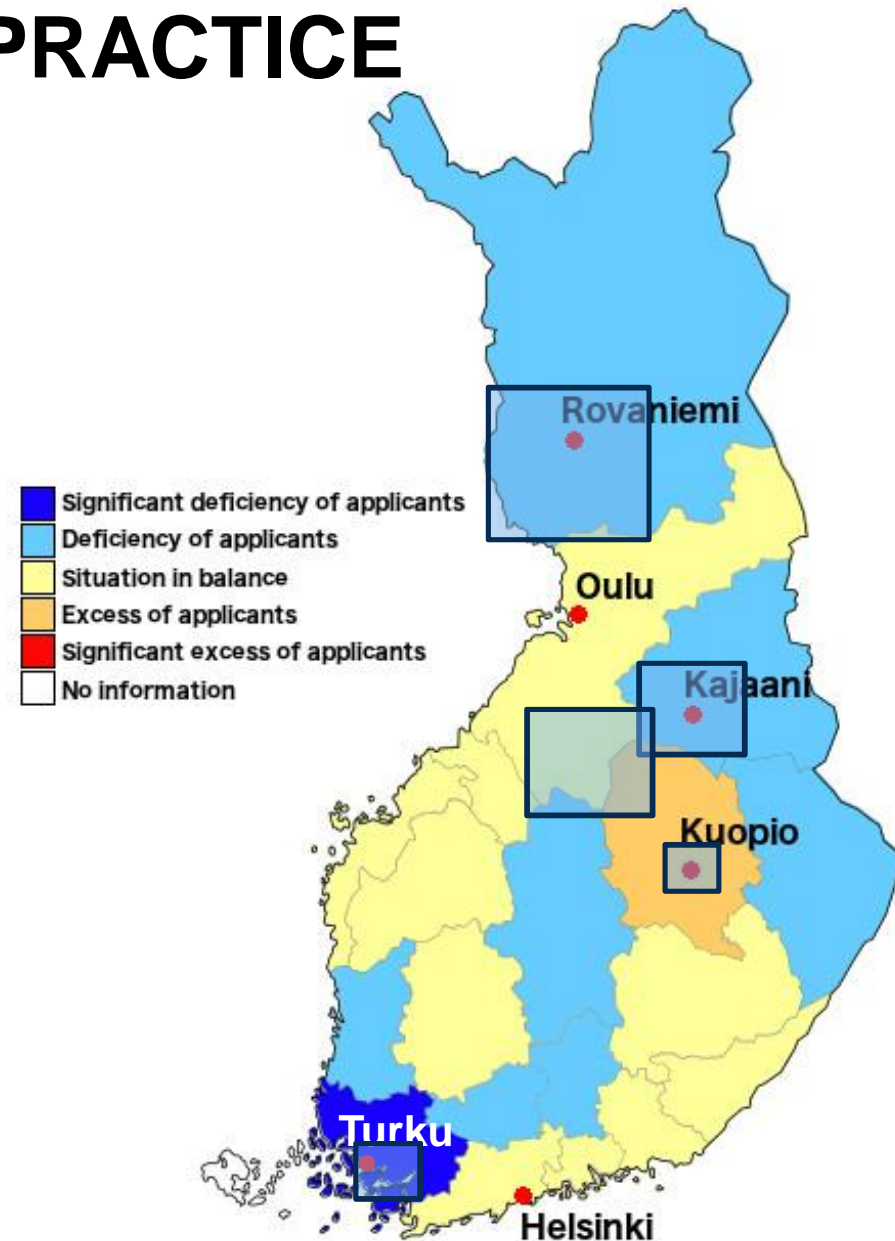
- Course: Biopharmaceuticals, Basic Course
- Identical completion in both programs
- e-lectures
- Written assignment
- Final examination

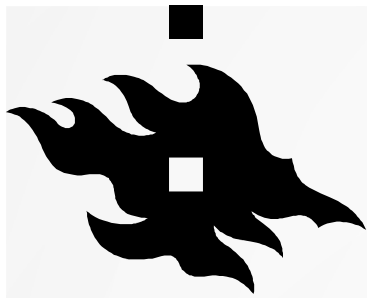




PHARMACY PRACTICE

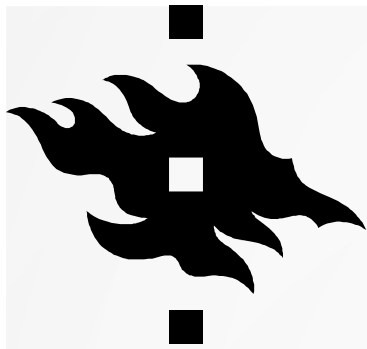
- 69% of the students completed their first pharmacy practice as scheduled
- 57% of the students will complete their second practice as scheduled
- Reasons for not completing the pharmacy practice
 - Work outside of studies
 - Family reasons
 - Individual study plan
 - Not being able to find a suitable pharmacy to work in





CONCLUSIONS

- The re-education program can at the time being be evaluated as successful
- The students were sensitive to the practical arrangements
- The students experienced stress, which correlated with their workload – they still completed their assignments
- The re-education students received better grades
- The workload was comparable to regular students on average, but there is great individual variation and less time for recovery
- Less stress results in finding the studies more meaningful
- Clear and frequent communication between the university and the students in other than matters directly related to the courses



ACKNOWLEDGEMENTS

- PhD Nina Katajavuori, University of Helsinki
- Kristiina Simojoki, University of Oulu
- Arja Alin, University of Oulu
- Professor Pia Vuorela, University of Helsinki
- Elisa Sippola, University of Helsinki
- Heidi Jänntti, Farmasialiitto
- Students and Personnel



Elinkeino-, liikenne- ja
ympäristökeskus

Vipuvoimaa

EU:lta
2014–2020



Euroopan unioni
Euroopan sosiaalirahasto