Course: Research & Innovation 1 — credits: 5

Course code	PIVP23RI1
Name	Research & Innovation 1
Study year	2026-2027
ECTS credits	5
Language	English
Coordinator	A.J. Beetsma

Modes of delivery	Lecture Practical / Training Teaching method 1
Assessments	Conditional assignment - Presentation Group assignment - Report Individual knowledge test - Computer, organised by STAD examinations

Learning outcomes

Learning Outcomes

1. The student can translate a specific information need of a patient or practice into an answerable research question (PICO). IP-1
2. The student is able to conduct a systematic search to identify relevant English-language research articles on a health-related problem. IP-1
3. The student is familiar with various information sources, including books, websites, AI, and research articles, and can critically appraise them. IP-1
4. The student can determine the level of evidence of (English-language) research articles and assess the validity and usefulness of research articles using an appropriate assessment tool. IP-1
5. The student has knowledge of basic methodological and statistical aspects of a research article (including research design, measures of central tendency and dispersion, significance, correlation, and the interpretation of graphs and figures). IP-1
6. The student can, in collaboration with fellow students, explain findings from scientific literature through a presentation and share them professionally with others. COM,COL-1

Content

Society places high demands on professional conduct. Physiotherapists must demonstrate to clients and health insurers that their physiotherapeutic interventions are well substantiated from a scientific point of view. Physiotherapists are expected to examine and treat their patients in the best possible way. The physiotherapist's actions are based on the norms and values of the patient(s) concerned, the physiotherapist's clinical expertise, and the best available scientific evidence. Therefore, working according to these principles of evidence-based practice (EBP) is a must for every physiotherapist.
Research & Innovation 1 deals with the basic principles of applied scientific research. In this course, the investigative ability of students is stimulated: the student becomes acquainted with the EBP cycle and applies this method to a physiotherapeutic case. During the course, small groups will work on formulating research questions; searching scientific literature; assessing and interpreting this literature; organizing, summarizing, and displaying results in a fact sheet. The student will also gain knowledge about research designs and basic statistics. The course is concluded with a group assignment and an individual knowledge test. At the end of this course, the student has acquired basic knowledge about applied scientific research and gained experience with the EBP cycle. As a result of the course, the student can broadly understand and interpret research on physiotherapeutic treatment effects.

Included in programme(s)

International Physiotherapy

School(s)

Health, Care & Vitality

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