

# Ph.D. course

## An introduction to clinimetrics

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### Journal club

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#### Purpose

The aim of this journal club is to critically appraise the article:

*Joseph SD, Bellare B, Vernon H. Cultural adaptation, reliability, and validity of neck disability index in Indian rural population: a Marathi version study. Spine (Phila Pa 1976). 2015;40(2):E68-76.*

You are asked to assess whether the methods and results justify using the Marathi version of the NDI in a hypothetical randomized clinical trial in India.

#### Preparation

You should prepare the following:

- Read the article thoroughly before the session.
- Bring notes highlighting both strengths and weaknesses of the study.
- Be prepared to discuss the methodological quality and the practical implications for research and clinical use.

#### Discussion topics

Work in groups to discuss the following four areas:

- Translation and cross-cultural adaptation
- Patient population
- Reliability
- Validity

#### Critical Reflection

In your group, consider:

- Is the validation study carried out to your satisfaction? Why or why not?
- How could the study have been improved (design, analyses, reporting)?
- Would you include this Marathi NDI in your planned trial? Justify your decision.

#### Output

Each group should prepare a short summary (5 minutes) of their conclusions, focusing on:

- Main strengths and weaknesses of the study.
- Whether and how the Marathi NDI should be used in a clinical trial.
- Key lessons for designing and reporting validation studies.