Advanced course in questionnaire technique and clinimetrics

Day: **Monday 09-11-26**
Location: Det Blå Auditorie (1266-222) i Victor Albeck Bygningen, Vennelyst Boulevard 4, 8000 Aarhus (group room 1266 – 214)

Time	Contents	Pages	Teacher
9.00 – 10.00	Development of a new questionnaire (advanced) • The six steps	MiM: 30-64	EØ
10.00 – 11.00	Validity (advanced) • Face and content validity • Construct and criterion validity	MiM: 154-181	EØ
11.00 – 12.30	Exercise: Validity		EØ
12.30 – 13.00	*Lunch*		
13.00 – 15.00	Exploratory factor analysis	MiM: 72-80 Articles	EØ
15.00 – 16.00	Exercise: Exploratory factor analysis		EØ

Day: **Monday 16-11-26**
Location: Loftssalen (AU-find: 1266), Victor Albeck Bygningen, Vennelyst boulevard 4, 8000 Aarhus C (group room 1266 – 314)

Time	Contents	Pages	Teacher
9.00 – 10.00	Field testing	MiM: 65-72 MiM: 80-84	HHL
10.00 – 11.00	Exercise: Field testing		HHL
11.00 – 12.30	Reproducibility (advanced) • Internal consistency • Reliability • Measurement error	MiM: 96-123	HHL
12.30 – 13.00	*Lunch*		
13.00 – 14.00	Exercise: Reproducibility		HHL
14.00 – 14.30	Responsiveness & interpretation	MiM: 202-220 MiM: 245-261 Articles 3 x vodcasts	HHL
14.30 – 16.00	Exercise: Responsiveness and interpretation		HHL

Day: **Monday 23-11-26**
Location: Det Blå Auditorie (1266-222) i Victor Albeck Bygningen, Vennelyst Boulevard 4, 8000 Aarhus (group room 1266 – 214)

Time	Contents		Teacher
9.00 – 10.00	Introduction to Item Response Theory (IRT)	Furr: chapter 14 Articles	EØ
10.00 – 10.30	Exercise: IRT		
10.30 – 12.00	Introduction to Rasch analysis	Furr: chapter 14 Articles	EØ
12.00 – 12.30	*Lunch*		EØ
12.30 – 13.30	Journal club: Rasch analysis of a questionnaire (see webpage)		EØ
13.30 – 14.00	Plenary		EØ
14.00 – 15.00	Questions about own project Evaluation of the course		EØ

Requirements
Enrolment in the course requires participation in the "Introductory course in questionnaire technique and clinimetrics" or similar courses. Knowledge of basic statistical concepts is advantageous but not a requirement.

Expectations
The lectures and exercises include statistical output which participants will read and interpret. Knowledge of coding in statistical software is NOT expected. Code for Stata and R (only selected exercises) will be provided for participants own use.

Suggested textbook
The page numbers refer to the recommended textbook which covers most of the taught subjects:

Measurement in Medicine. A Practical Guide (MiM)
Henrica C. W. de Vet, Caroline B. Terwee, Lidwine B. Mokkink, Dirk L. Knol
Cambridge University Press, 2011.
ISBN 978-0-521-11820-0 Hardback
ISBN 978-0-521-13385-2 Paperback

NB: The book is available in a 'free' electronic version via the university library at SDU and AU.

Psychometrics. An introduction – fourth edition, chapter 14 (Furr)
R. Michael Furr
Sage Publications, 2022.
ISBN 978-1-0718-2409-2

Additional papers for reading will be available on www.clinimetrics.sdu.dk.

Location
The lectures will take place in 'Det Blå Auditorium 1266' and 'Kollokvierum Øst 1268'.
For location download the 'AU Find' app and enter the first 4 digits to find the building.

Lecture notes and additional papers
Lecture notes, data sets, additional papers etc. will be available on www.clinimetrics.sdu.dk. Click on 'Advanced course'.

Requirements for passing the course
Attending the three days is important as the lectures are followed up with group work. Participants must be physically present, at least 80% of the course (i.e. up to 4 hours of absence are accepted). ***Please notify the course leader if you cannot attend the whole course.***

Please refer to the absence rules at AU here and SDU here.

Teachers

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