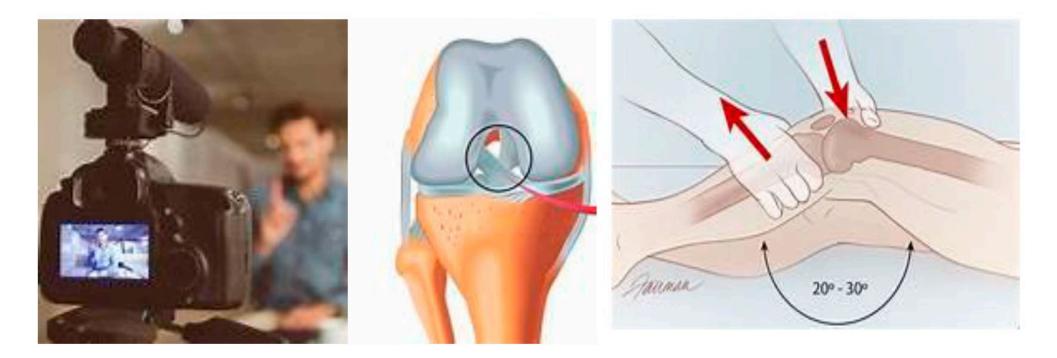
Shouldn't we just make a video?

Classic Clinical Learning vs. Video Assisted Learning of the Lachman's Test

- A Small Pilot Study





University of Bergen

Knut Harboe — Håvard Søiland — Tone Hoel Lende



Outline

- Background
- Material and Methods
- Results
- Discussion/Reflections

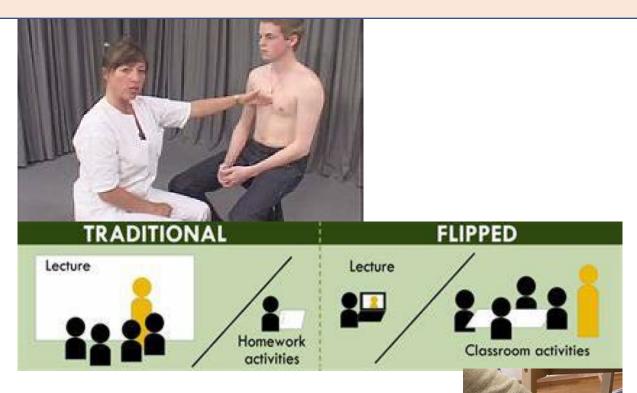


Background

- Classic Clinical Education
 - Since Hippocrates
 - Traditional

Video-assisted Education

- New: Flipped class room:
- Lectures on video: success



What about use of video in teaching clinical procedures?



Medical Students:

Forth-year (8th-term) students from University of Bergen Attending an 8-week clinical education period at Stavanger University Hospital, Autumn 2021

30 students were invited.

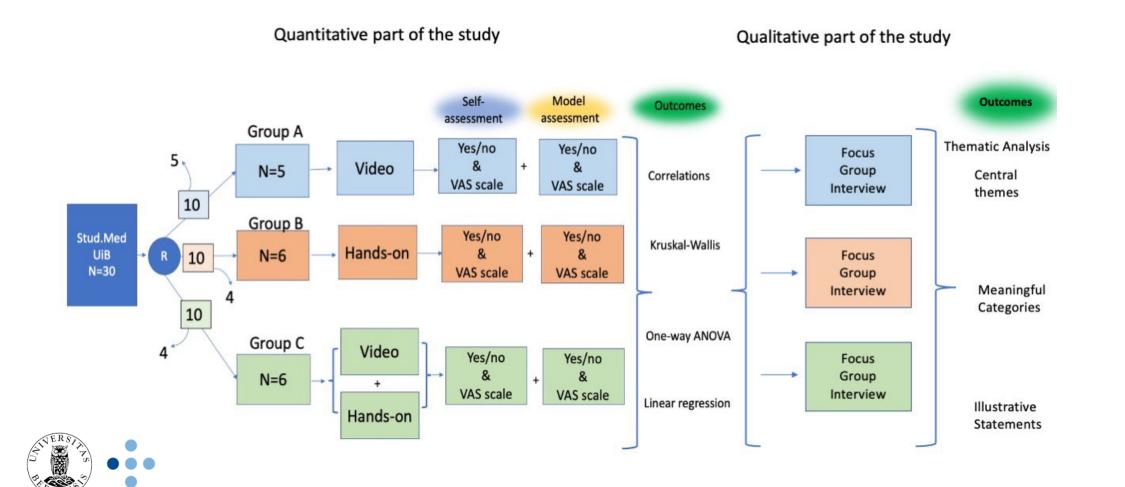
Written info and consent.



The instruction and Test-models for objective scoring











Følte du at du fikk til å gjøre Lackmans's test?	
Ja	
Nei	
Vet ikke	
 På streken under ber vi deg sette en tverrstrek i den grad du fø utføre Lackman's test 	1
Helt sikker på at	Helt sikker at
jeg utførte testen	jeg fikk gjort
galt	testen <mark>korrekt</mark>

Focus group interview

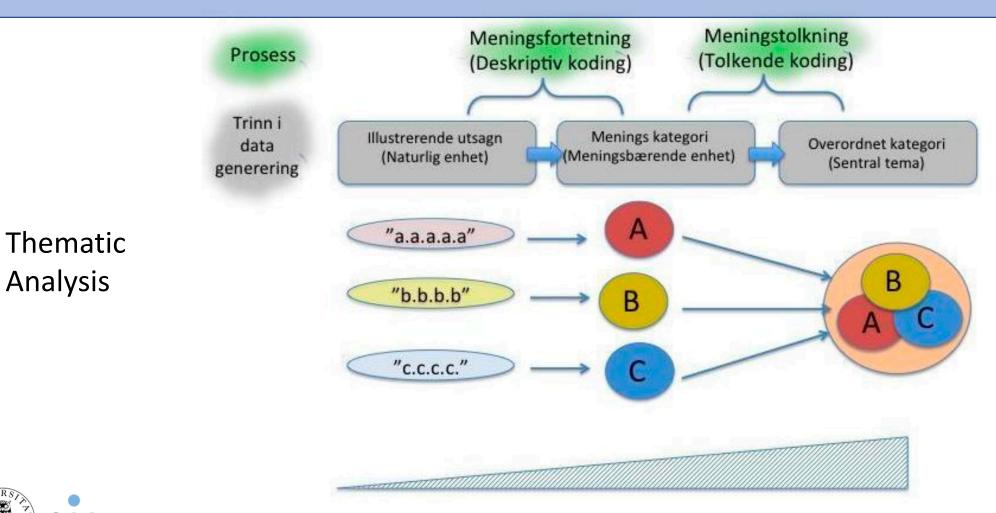
'To clarify and illuminate a particular topic area through a conversation. The point of gathering a group instead of interview participants individually, is that the participants relate to each other's opinions'



'To get a response, ideas or as part of development of new measures. '



https://www.helsebiblioteket.no/kvalitetsforbedring/brukermedvirkning/fokusgruppeintervju



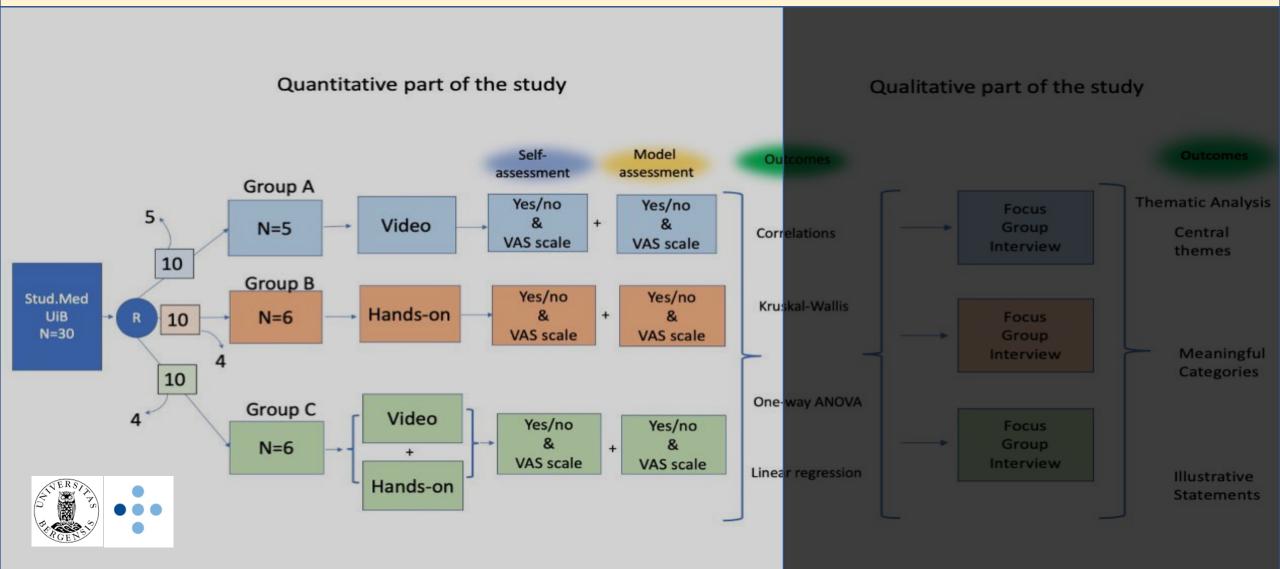


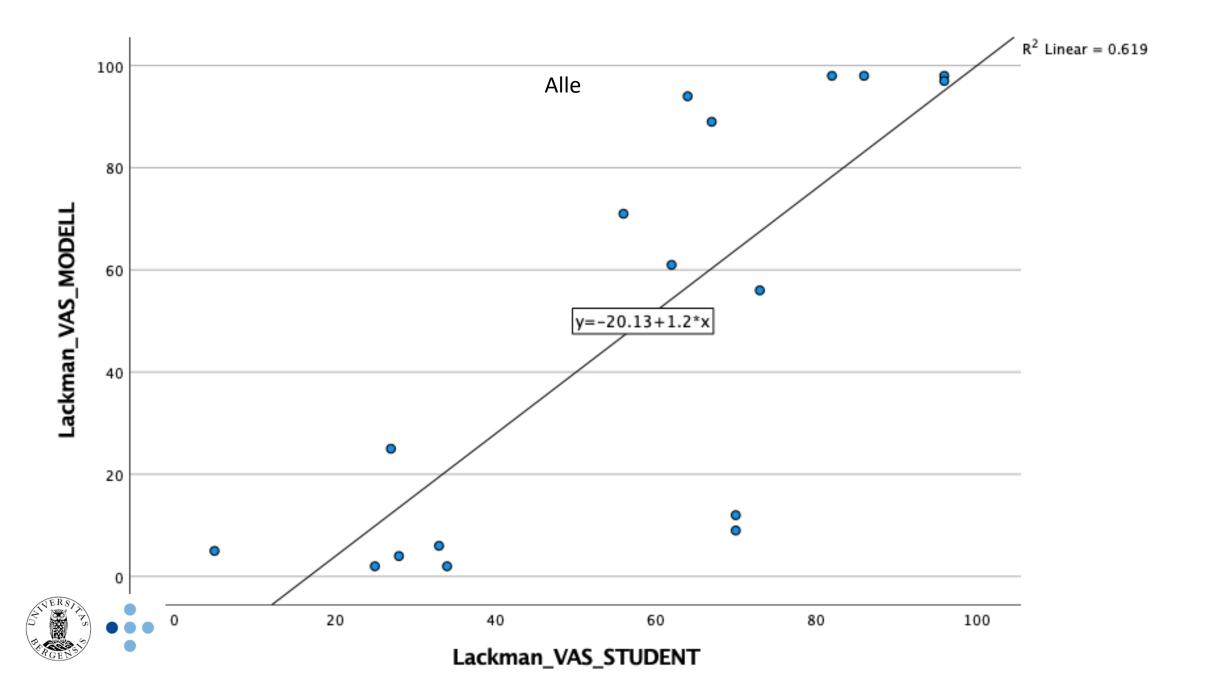
Abstraksjonsnivå

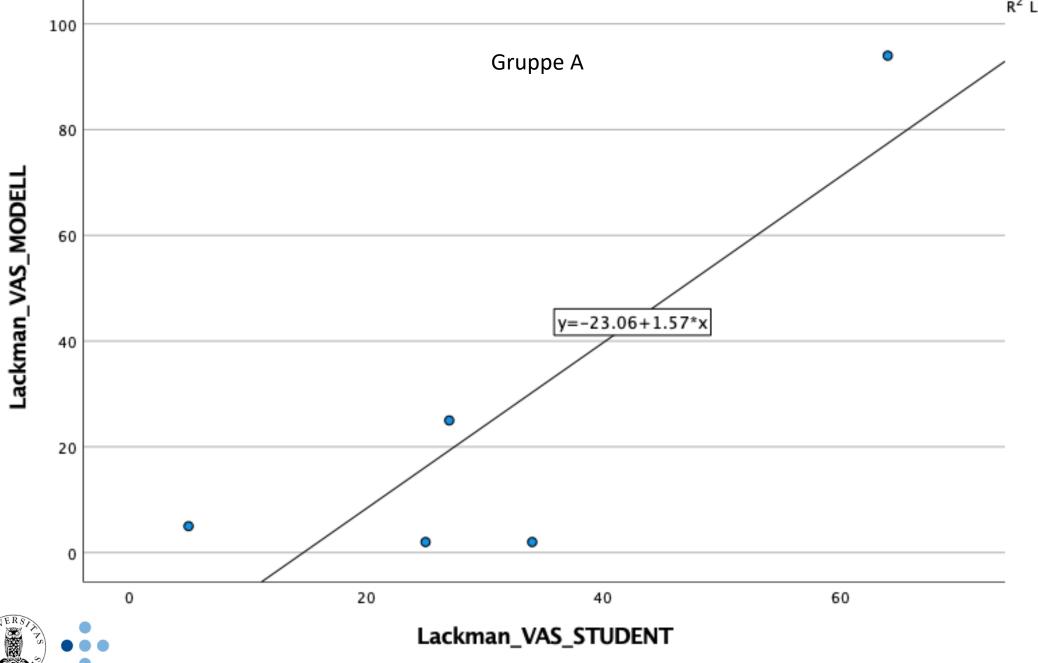
Sleveland & Øvstebø, 2016

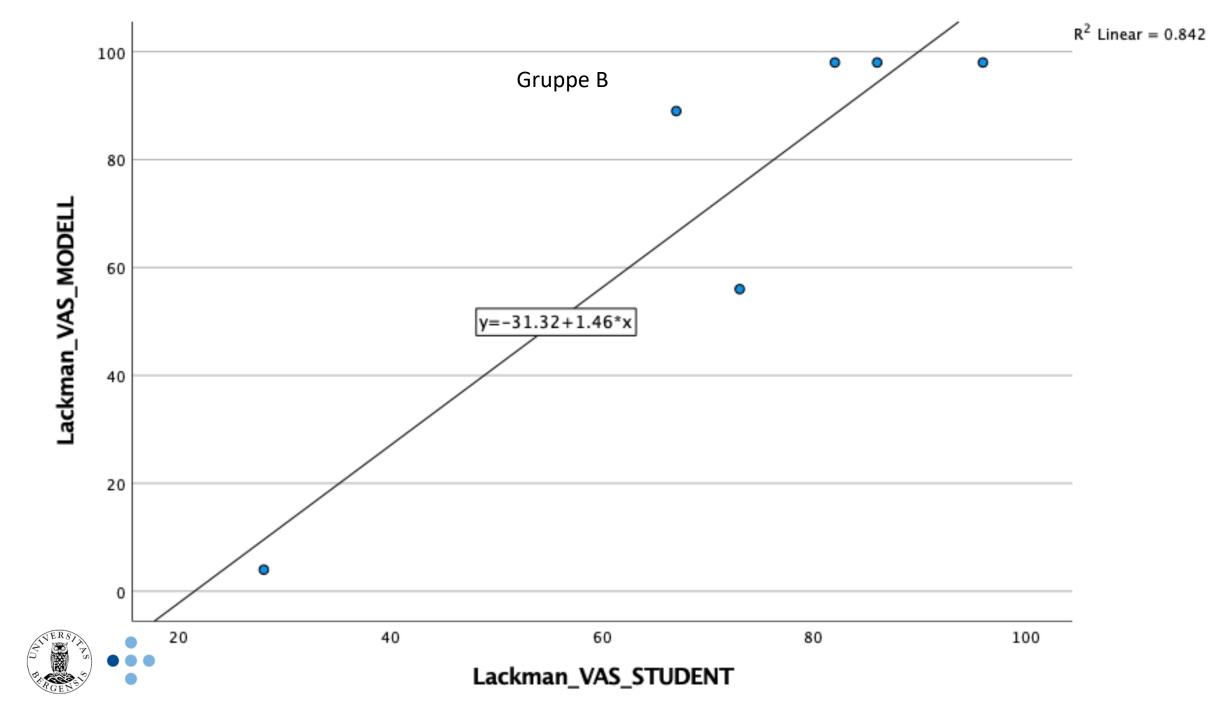
The video.....

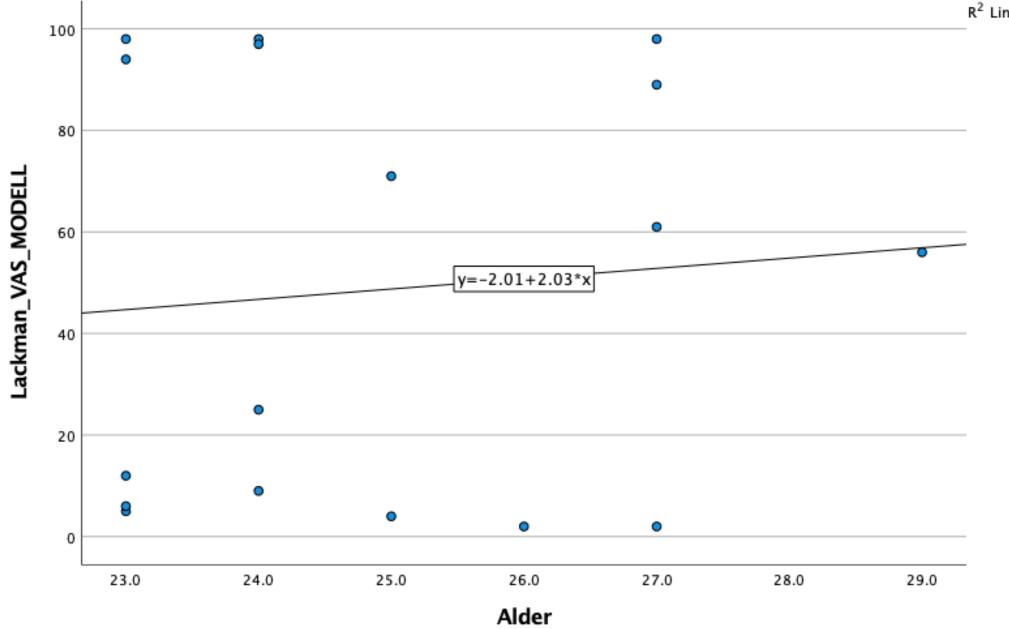






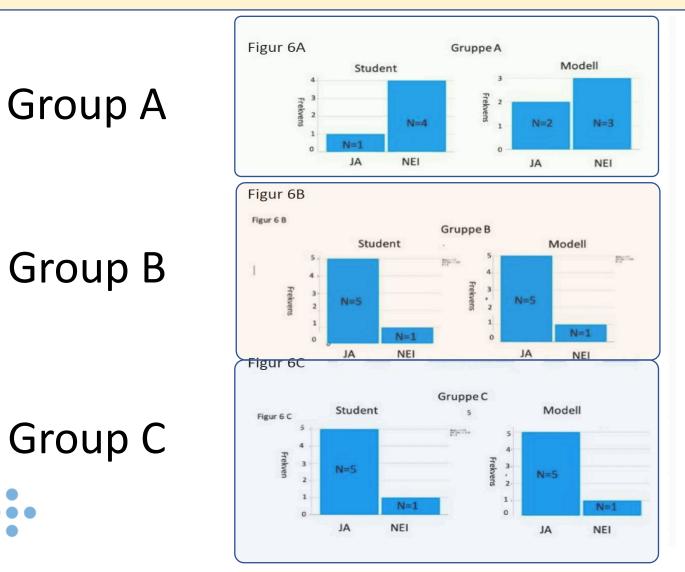






R^2 Linear = 0.009

Dicotomous: Self-evaluation vs Objective evaluation

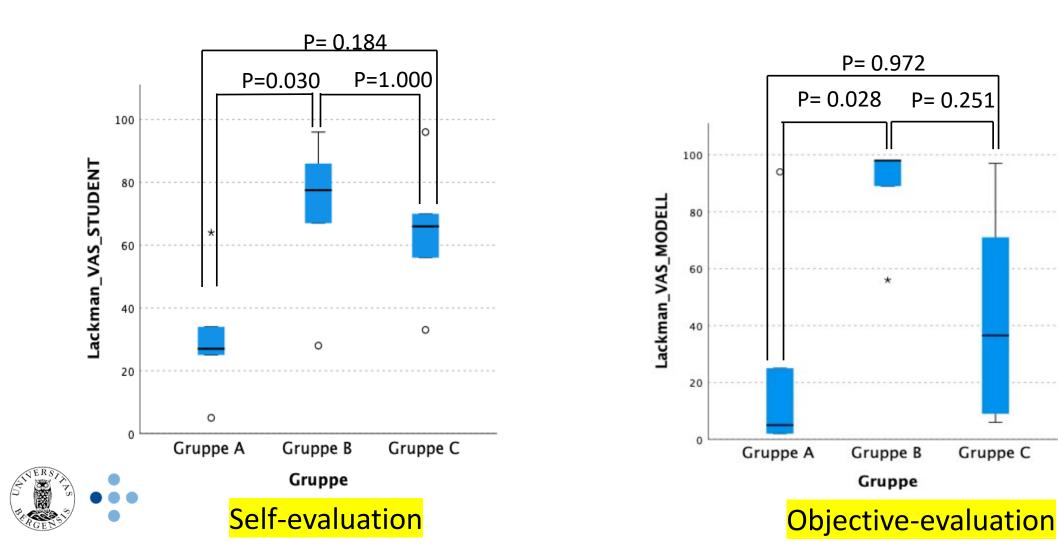


Group B

Group C



VAS: Self-evaluation vs Objective evaluation



Simple linear regression

Lineær regresjonsanalyse

Variabel	Justert beta	Beta	Beta 95 % KI	P
VAS - STUDENT	0.769	1.17	0.615 til 1.73	<0.001*
Alder	0.098	2.080	-9.98 til 14.1	0.717
Kjønn	0.294	27.1	-23.3 til 77.6	0.269
Gruppe (alle)	0.145	7.00	-20.4 til 34,4	0.592
Gruppe A (ref=B)	-0.723	-62.2	-108.7 til -15.71	0.013
Gruppe C (ref=B)	-0.548	-45.1	-89.6 til -0.62	0.047
Gruppe B	0.615	52.9	13.97 til 91.81	0.011

Tabell 1. Enkel lineær regresjonsanalyse (VAS-modell score er avhengig variabel)

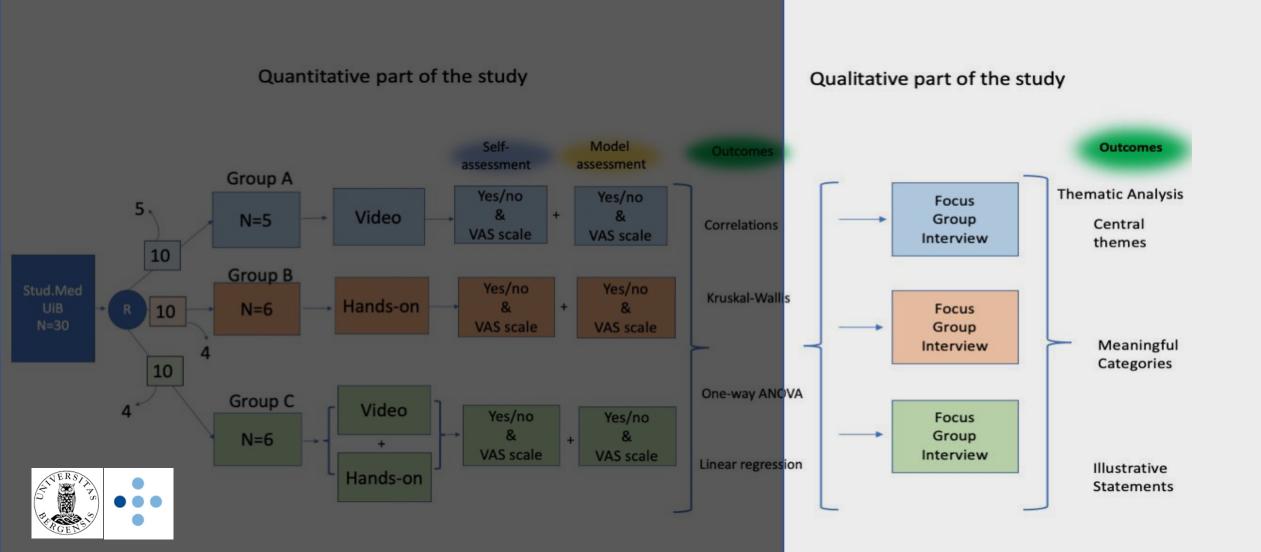


Multivariable linear regression

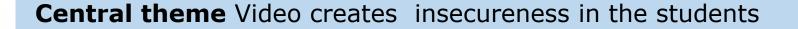
Dependent variable: VAS-Model (objective measure)

Gruppe B (Classic training): Beta=52.6 (95%KI, 13.9 til 91.8; P=0.011) was the only indepent variable in the final model





Group A



Category: Knowledge does not sustain after the video

Natural unit [.....especial regarding the details.....where should I hold and push?]





Group B

Central theme: Classic method create know-how

Category: Training give mastery

Natural unit:[...... and when you receive instruction that you understand and then are tested in a way where you experience mastery, you will in a way go further on with a high degree of mastery.....]







Group C

Central theme : Classic training overrules video
Category : Did not learn enough from the video
Natural unit: [...I do not trust that video is enough for me ...]

Central theme: Video can complement clinical teaching

Category: Classical teaching and video do well together.

Naturlig unit [.....Video.... helps a lot to be prepared to things then in general when you are going to do something....and repeat before the exam....].

- Video teaching alone scores low on the VAS-scale
- Classical teaching scores high on the VAS-Scale
- Video is probably not suitable when it comes to specific skills / procedures
- Small study: type 1 and type 2 errors
- BUT:
 - The differences are very clear (B = 52.6)
 - The qualitative study support the quantitative study



- Such a study can be done within one semester
- Need a good plan, good logistics and enough people
- Learning outcome descriptions (LUBs) important to define before filming
- Video easy to make (iPhone + iMovie).
- Technical: Decent sound and good picture



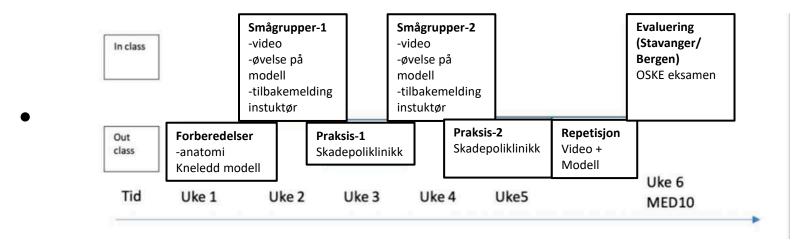
- Video length: 5 minutes
- For video: Suitable format was small group teaching 'SGU'
- Video in the corona era: probably best suited for theoretical lectures



- Important to include a qualitative method
- The students were eager to discuss and share experiences
- This experience proved to support the quantitative analysis
- Although small study: qualitative = quantitative
- The combination increases the ethos of the study



• Castle- Top model may be suitable for this type of training





Sorry!

We can't just make a video!



Acknowledgements

- 1.Aman.Kirsten Lode, RN, PhD
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- Students and models

