

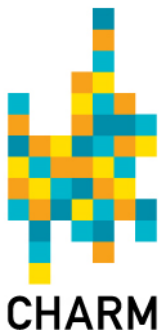


Validation of the Norwegian version of The Participation Assessment with Recombined Tools-Objective (PART-O)

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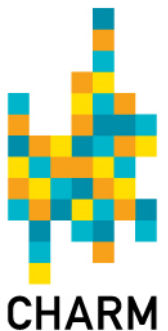
Background

- Participation- important goal and outcome
- Participation-difficult to measure the individual important aspects at group level
- Part-O (Participation Assessment with Recombined Tools-Objective) developed, validated and revised to measure Participation, Social, Productivity and Out and about dimensions
- Scarce transcultural validation



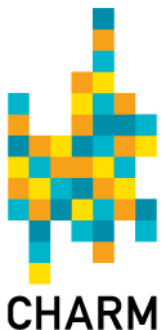
Aim

- Translate to Norwegian
- Evaluate its applicability in a Norwegian setting
- Evaluate measurement properties in subjects participating in an individualized goal oriented intervention



Methods

- 17 item Part-O translated to Norwegian (forward, backward and consensus)
- Distributed to 120 subjects with sustaining symptoms >2 years after traumatic brain injury
 - Baseline
 - After 4-5 months intervention
 - At 12 months follow-up



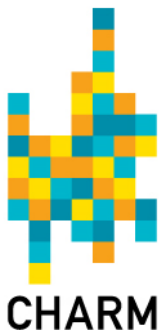
Part-O

Productivity

(P)1. In a typical week, how many hours do you spend working for money, whether in a job or self-employed?

(P)2. In a typical week, how many hours do you spend in school, working toward a degree or in an accredited technical training program, including hours in class and studying?

(P)3. In a typical week, how many hours do you spend in active homemaking, including cleaning, cooking and raising children



Social

(S)4. In a typical week, how many times do you **socialize with friends**, in person or by phone?

(S)5. In a typical week, how many times do you **socialize with family** and relatives, in person or by phone?

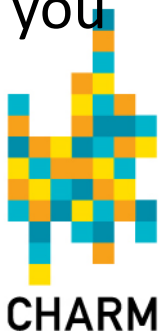
(S)6. In a typical week, how many times do you give **emotional support to other people**, that is, listen to their problems or help them with their troubles?

(S)7. In a typical week, how many times do you use the **Internet for communication**, such as for e-mail, visiting chat rooms or instant messaging

(S)15. Do you live with your spouse or significant other?

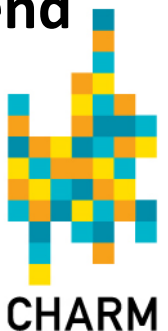
(S)16. Are you currently involved in an ongoing intimate, that is, romantic or sexual, relationship?

(S)17. [Not including your spouse or significant other], do you have a close friend in whom you confide?

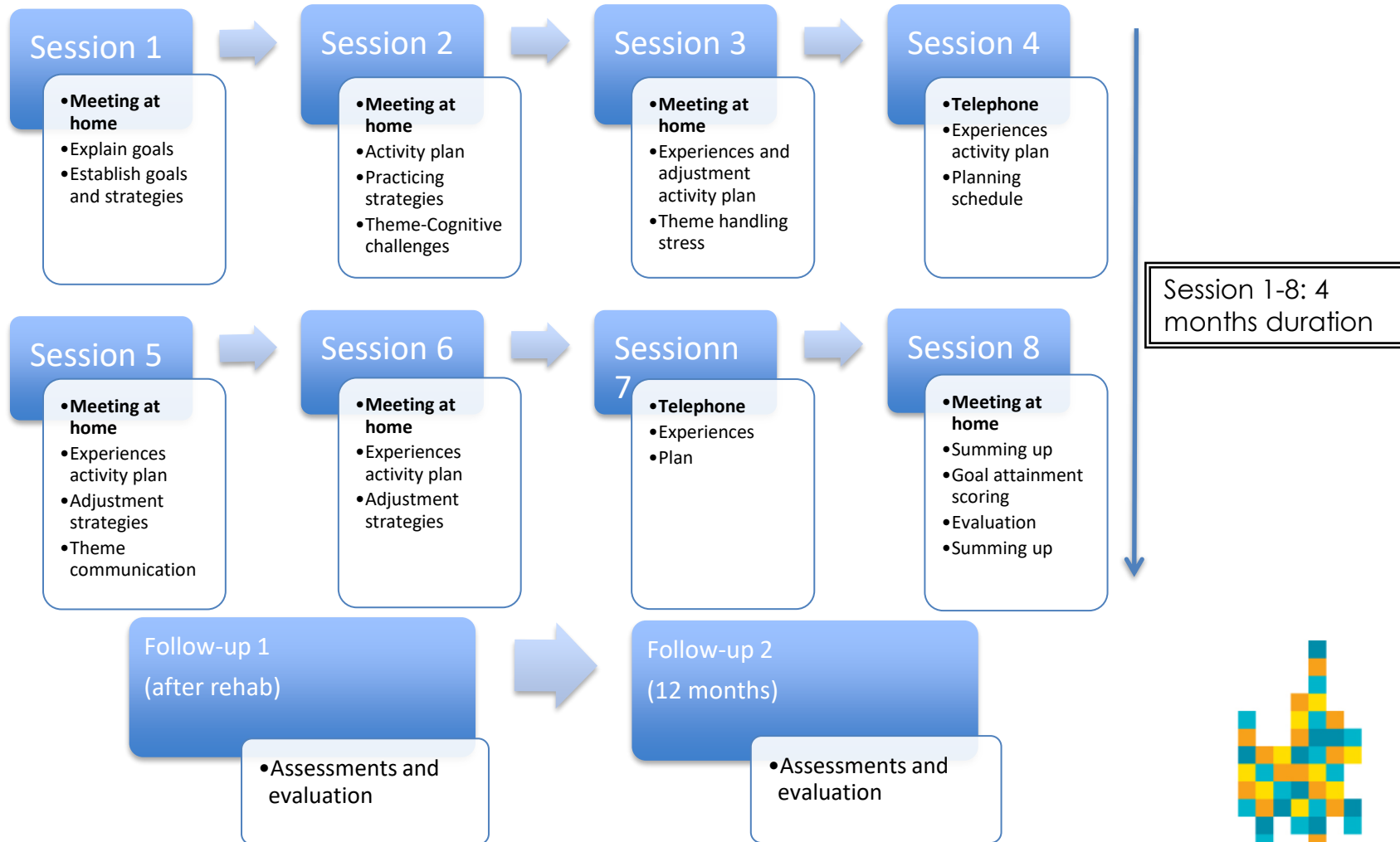


Out and about

- (O)8. In a typical week, how many days do you get out of your house and go somewhere?
- (O)9. In a typical month, how many times do you **eat in a restaurant?**
- (O)10. In a typical month, how many times do you go shopping? Include grocery shopping, as well as shopping for household necessities, or just for fun.
- (O)11. In a typical month, how many times do you **engage in sports or exercise outside your home?**
- (O)12. In a typical month, how many times do you go to the movies?
- (O)13. In a typical month, how many times do you **attend sports events in person, as a spectator?**
- (O)14. In a typical month, how many times do you **attend religious or spiritual services?**

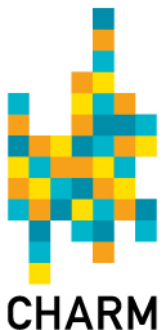


Intervention



Methods

- Rasch analysis baseline scores with the program Rumm 2030
- Descriptive statistics
 - Development of Productivity, Social, Out and about and overall Participation
 - Correlation between subscales for changes in participation

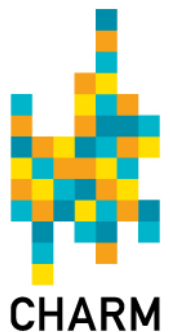
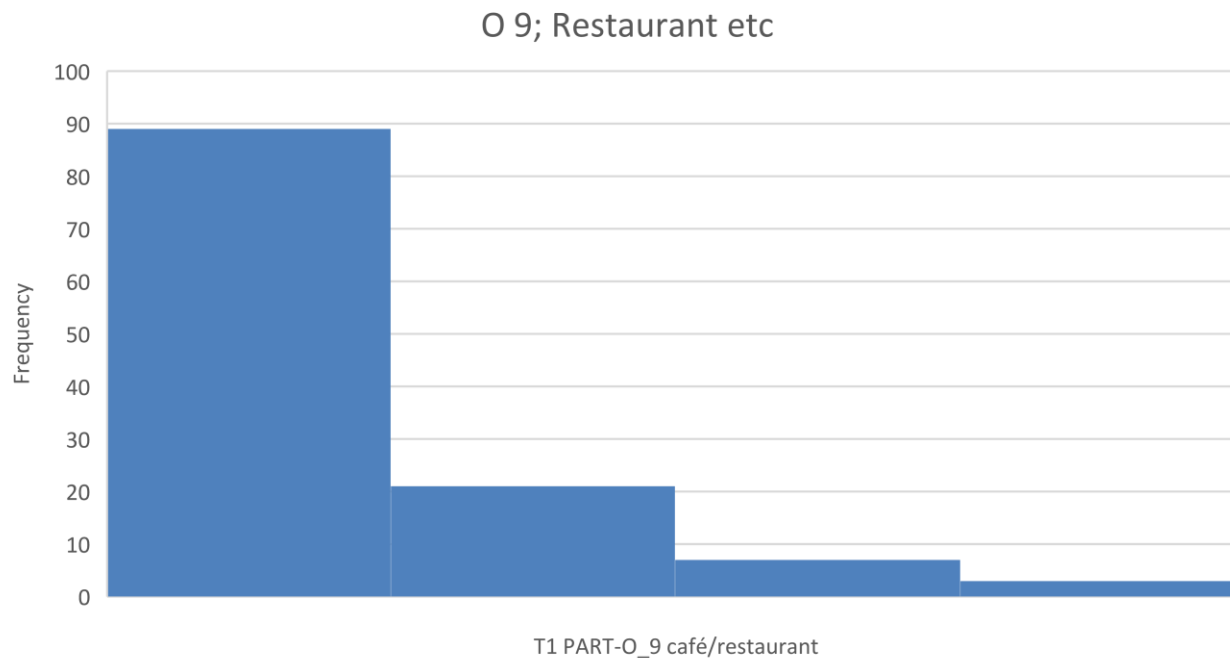


Results

– O)9. In a typical month, how many times do you eat in a restaurant?

Category Score None 0; Category Score 1; 1-4 times, Category Score 2; 5-9 times, Category Score 3; 10-19 times

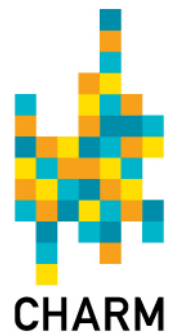
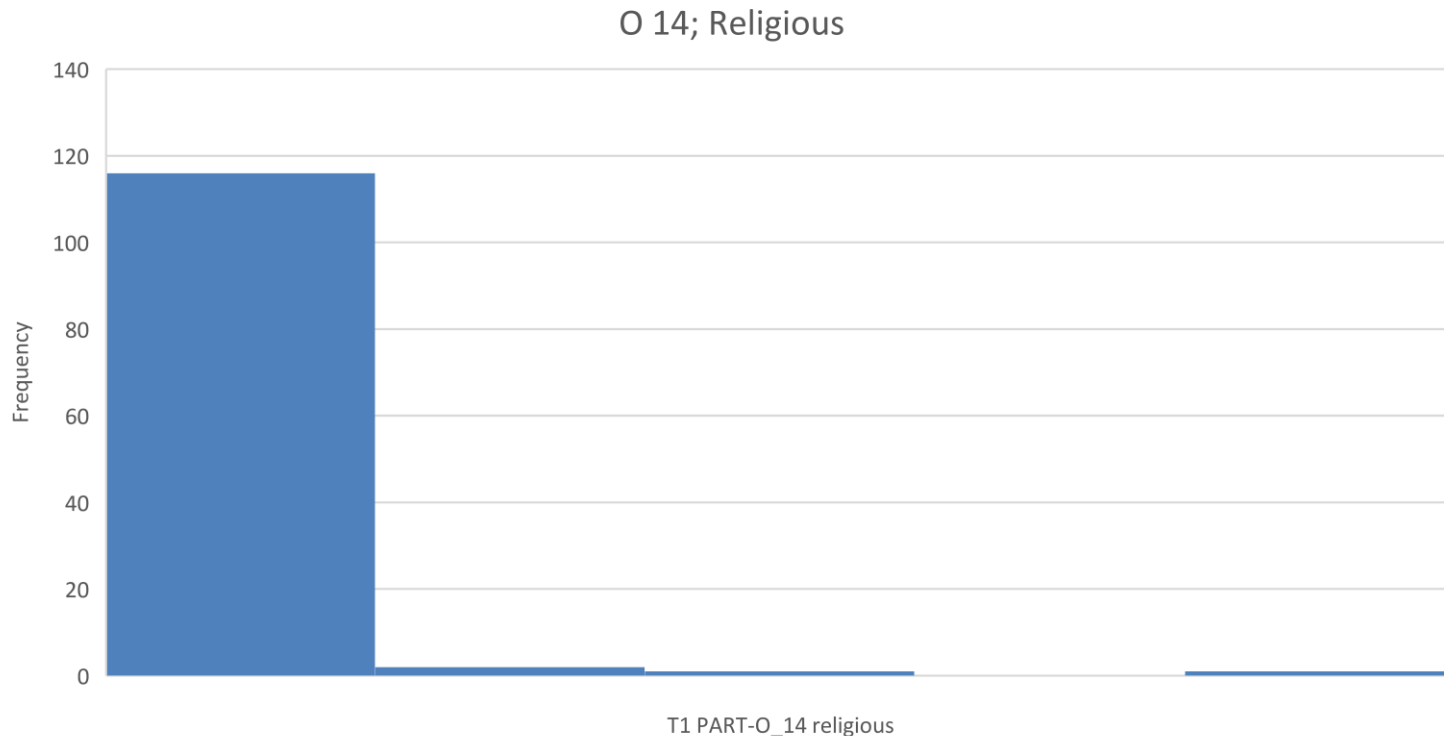
Category Score 4; 20-34 times , Category Score 5; 35 or more times 5



Results



(O)14. In a typical month, how many times do you attend religious or spiritual services?

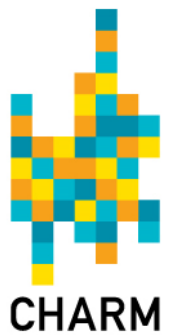
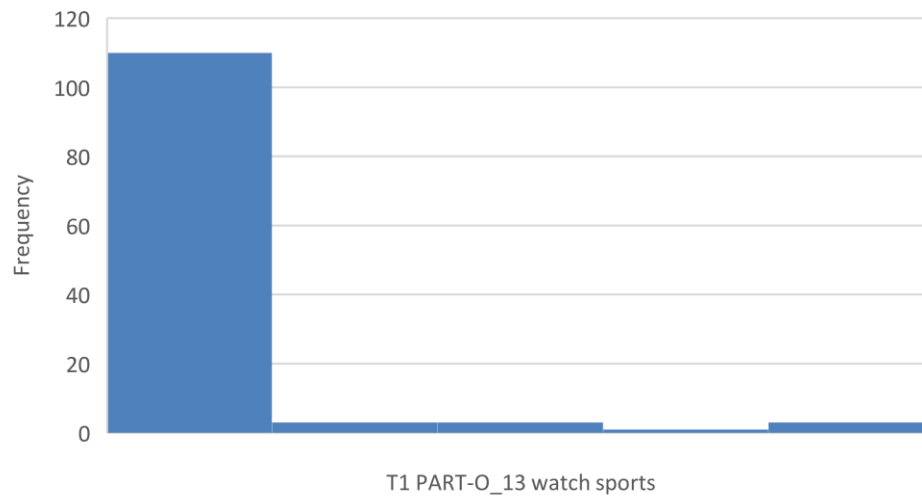


Results

O 11; Participate in sports

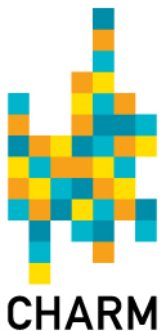


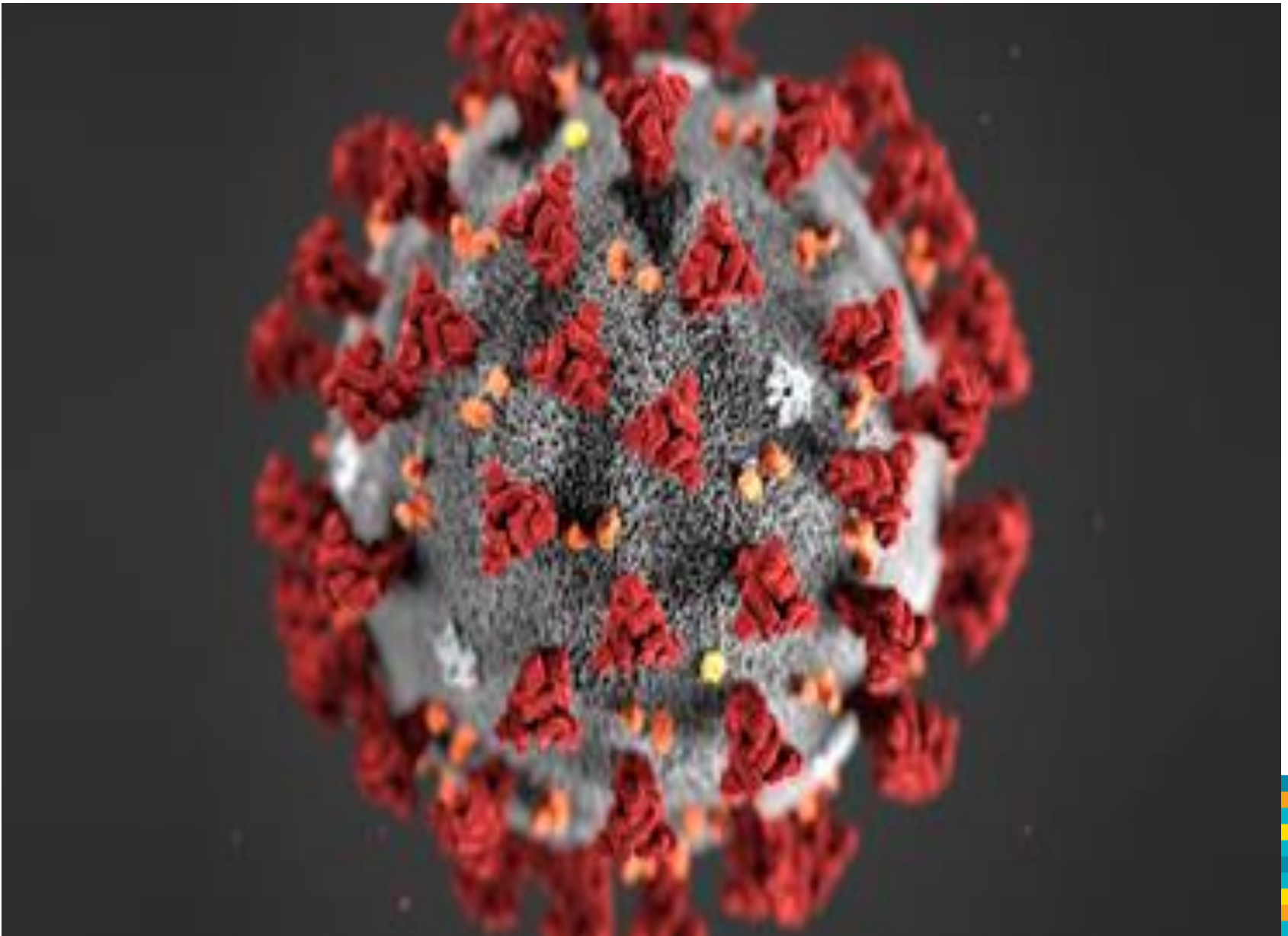
O 13; Watch sports



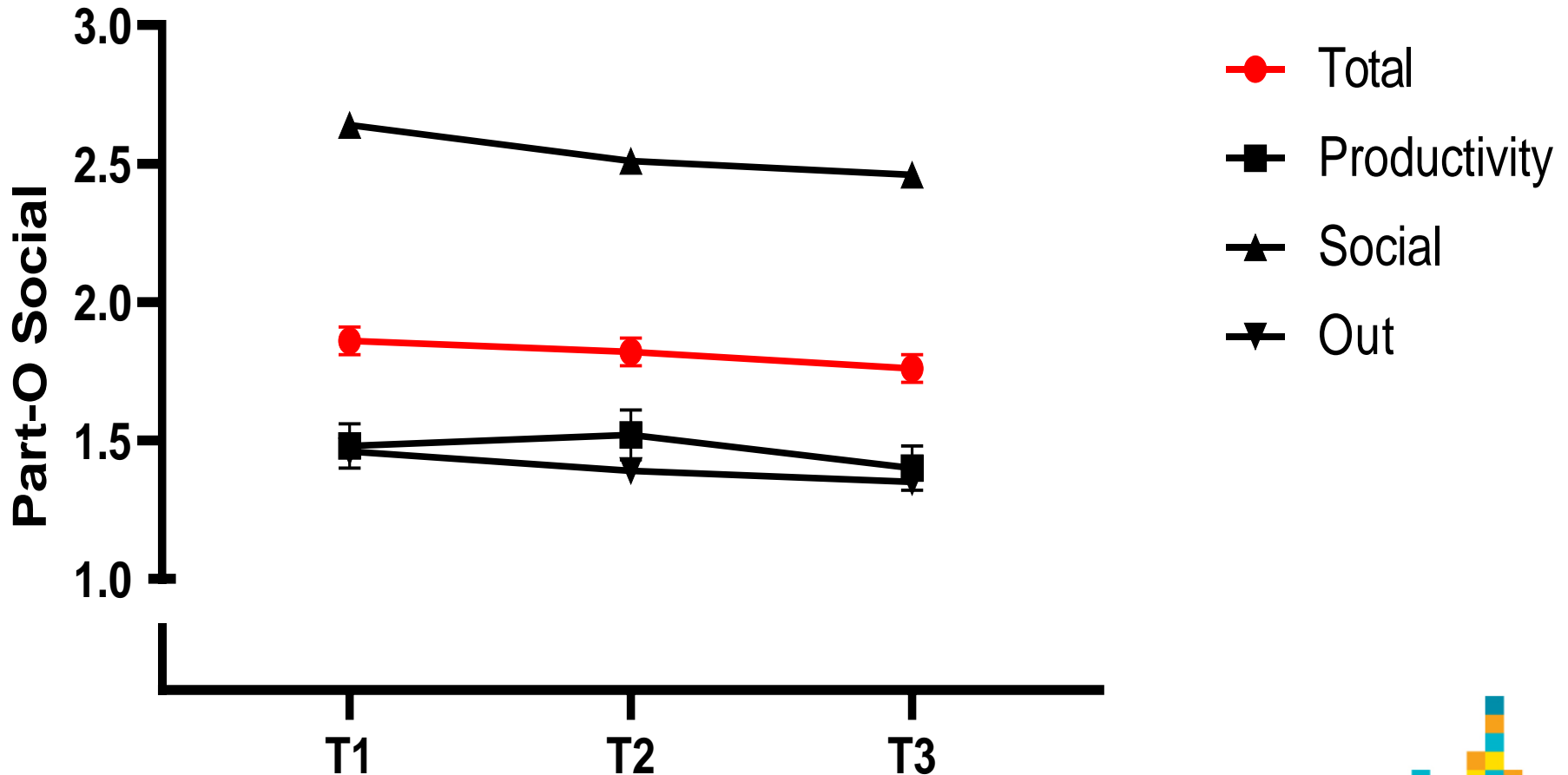
Results

- Some of the questions are not reflecting usual activities in the Norwegian society
- Skewed distribution is a challenge for a measurement

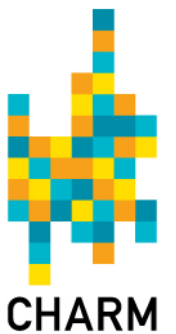




Results

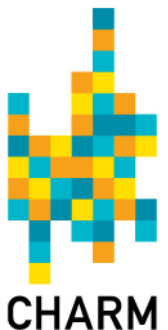


Low correlation between changes in subscales in particular Social and Productivity ($\rho=0.06$)



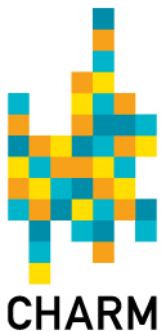
Rasch analysis

- Productivity- fits the Rasch model but
 - Only two scoring options for the working questions
 - Low power
- Social- fits the Rasch mode
 - Only 3 scoring options for Q 4-7 (already two for Q 15-17)
- Out and about
 - Does not fit the Rasch model



Conclusion

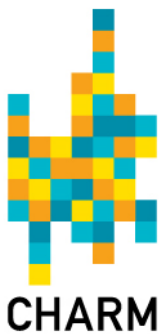
- Cultural adaptation of Part-O may be needed
- Caution should be taken when applied as outcome measurement for changes over time
- Very few alternative validated measurements



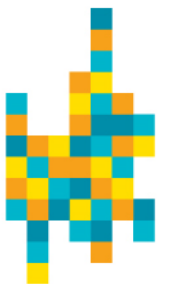


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Thanks



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