

24th World Congress in Rehabilitation International, Denmark "Moving Society"

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CENTRE FOR PHYSICAL

AC^TIVITY RESEARCH



When Movement Moves

A quasi-experimental evaluation-study of two pre existing programmes the Danish:





A presentation of the study aim, approach, methods, planned data collection and outcomes





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Background "what we know and why is this important"













Physical health



Mental health



Social health







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Background

"why is this important?"







Indirect
physical
activity in a
social context



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Research questions

Primary RQ:

- How does being moved by others affect the QoL among handiathletes (disabled people - TT) and passengers(elderlies - CWA)
- Does indirect PA lead to improved physiological health among handiathletes (disabled people TT) and passengers (elderlies CWA)?

Secondary RQ:

- How does physically moving others affect the volunteers' perceived physical and mental health and their QoL?
- What does it mean for relatives and nursing staff, that handiathletes and nursing home residents are affiliated with TT and CWA, respectively?







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Purpose of programmes:

enhance Quality Of Life for through a combination of social and indirect physical activity.

Target groups:

- Handiathletes (Disabled persons)
- Runners (volunteers)
- Relatives (to Handiathletes)



Target groups:

Passengers (Elderlies at nursing resident)

CYCLING

WITHOUT

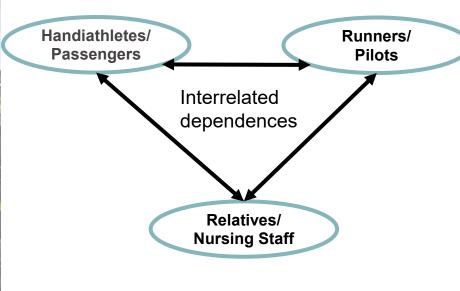
- Pilots (Volunteers)
- Nursing Staff (Working at nursing resident offering the programme)



Target groups of interest

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Target group/ programmes	Primary	Secondary		
Team Twin	Handiathletes	Runners	Relatives	
Cycling without age	Passengers	Pilots	Nursing staff	









Methods and study design

- Two pre-existing programme will be evaluated separately
- A multi methods study approach combining methods
- A natural experiment (i.e., exist regardless our involvement)
- External evaluators
- A single-group before and after study with no control group
- 12-16 weeks programme period equals a minimum of eight-time participations in the activities





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QoL

Physiological health

Mental health & wellbeing

Social health

Unintended side effects

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Programme activities

Training (8-10 times in 12-16 weeks) Enrolled in a local TT-clubs

- · (Indirect) physical activity together disabled and non-disabled
- · Role models speech (Steen og Peder)

Social gatherings;

- · Before and after training
- Spare time social meetings Visual Identity (artefacts);
- Specialized running chair equipment
- T-shirts

Goal:

· Half/full-marathons

Participants engages in organized training and cycling trips

Activity outputs

Participants engage with each other, the club and the community

Participants receive positive feedback from others and the surroundings

Participants experience their body and their senses

Participants perceives fewer symptoms regarding diseases in everyday life

Participants feels seen, heard and accepted

Participants experience a sense of community

Participants are enrolled in an all-sided local community

Contextual mechanism

Interpersonal

mechanism

Individual

mechanism

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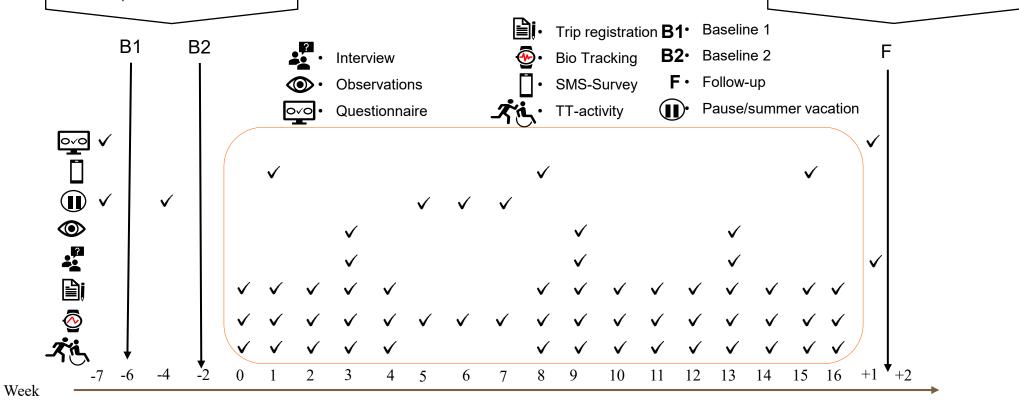
Measurement (outcome)	What (operational)	How (instrument)	When (timing of collection)	Who (Data source)		
PRIMARY OUTCOME						
Quality of life (QOL)	Cantril Ladder of Life Scale	Web and interview-based questionnaires	Baseline, follow-up	HA, Runners, Relatives		
SECONDARY OUTCOMES						
Autonomy	The perceived feeling of being in control over ones own life	Web-based questionnaire	Baseline, follow-up	НА		
Sleep	Sleep quality and sleep quantity	Web-based questionnaire Bio tracking (HA) SMS-Survey (HA)	Baseline, during (HA), follow-up	HA Runners		
Well-being	WHO-five Well-being Index	Web-based questionnaire	Baseline, follow-up	HA, Runners		
Loneliness	A perceived feeling of loneliness and lack of network and support	Web-based questionnaire	Baseline, follow-up	HA, Runners		
EXPLORATIVE OUTCOMES						
Self-perceived health	Subjectively perceived Health (61)	Web-based questionnaire	Baseline, follow-up	HA, Runners		
Perceived pain	Mental and physical pain/discomfort(61)	Web-based questionnaire	Baseline, follow-up	на		
Self-perceived Physical performance	Subjectively perceived Physical performance (62)	Web-based questionnaire	Baseline, follow-up	Runners		
Epileptic seizures	Reduced epileptic seizures (adjusted version(63))	Paper-based questionnaire	Baseline, follow-up	НА		
Self-efficacy	General self-efficacy(54, 64)	Web-based questionnaire	Baseline, follow-up	HA, Runners		
Self-worth	Perceived feeling of acceptance(53)	Web-based questionnaire	Baseline, follow-up	HA, Runners		
Social/emotional support and network	Contact and support with friends, family and others. The perceived feeling of being valued, respected and accepted by others	Web-based questionnaire	Baseline, follow-up	НА		
UNINTENDED SIDE EFFECTS						
Fatigue	The perceived feeling of fatigue related to voluntariness or programme activity	Web-based questionnaire	Follow-up	HA, Runners		
Anxiety	The perceived feeling of anxiety trigged by the programme activity	Web-based questionnaire	Follow-up	HA, Runners		
Injuries	Amount of injuries by participation	Web-based questionnaire	Follow-up	HA, Runners		
Objective clinical data						
Body anthropometrics	Bodyweight Body mass index Whole body lean body mass Whole body fat mass Whole body bone mineral density	Dual X-ray absorptiometry (DXA)	B1, B2 + FU	НА		
Clinical blood samples	Blood glucose control: - HbA1c - Fasting glucose - Fasting C-peptide and insulin Blood lipids: - Total cholesterol - Tri-glyceride	Standard clinical procedure	B1, B2 + FU	HA COMPANY		

Data collection overview

- A medical history and examination (B1)
- Oral Glucose Tolerance Test (OGTT)
- Dual X-ray absorptiometry (DXA)
- Blood samples



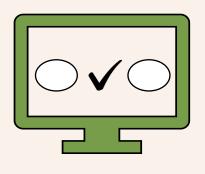
- Oral Glucose Tolerance Test (OGTT)
- Dual X-ray absorptiometry (DXA)
- · Blood samples







Qualitative data



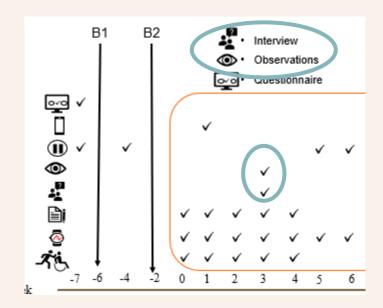
Questionaries:

Physiological health

Mental health & wellbeing

Social health

Unintended side effects









Participant observation

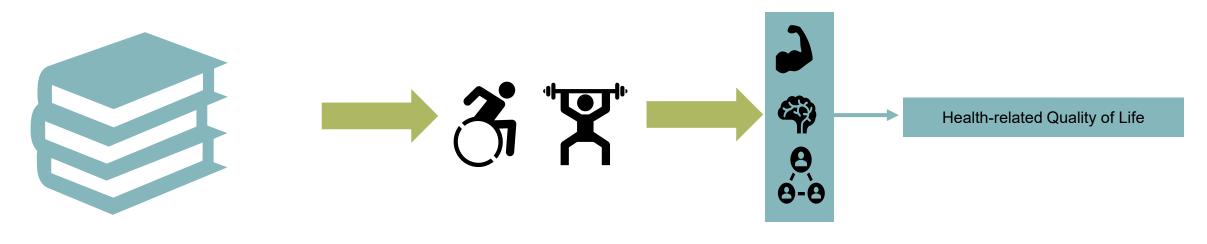
Individual mechanism

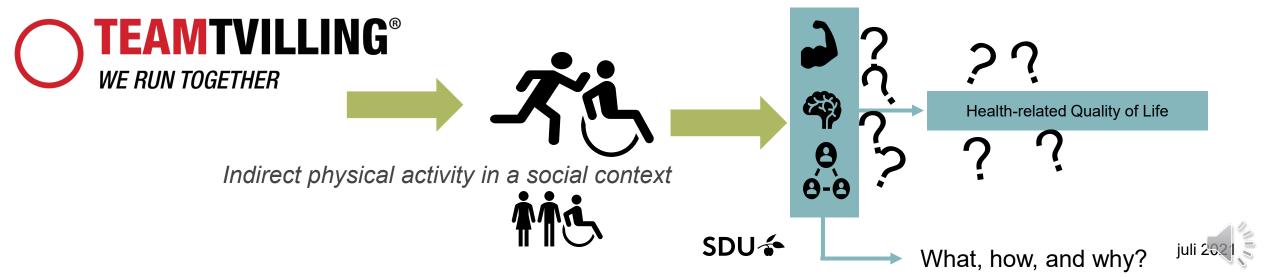
Interpersonal mechanism

Contextual mechanism



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Thank your for your time

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