Important factors for «tailoring» a tricycle

Implications for cycling satisfaction

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Objective







- 1. Investigate which factors that can help therapists and people with disabilities to choose the most appropriate tricycle
- 2. Investigate whether a tailor-made tricycle affects satisfaction in cycling activity



Methods

- Biomechanical tests
 - 6 Minutes Walk Test
 - 30 Seconds Sit-To-Stand-Test
 - The Trunk Impairment Scale
 - The Oxford Scale of muscle strength
 - Range of Motion Tests
- Technological measurement
 - Watt when pedalling

Open-ended question in an online questionnaire about important factors for choice of tricycle.



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Participants

Category	Included (<i>n</i> = 50)	
g,	n	%
Age		
5-10	12	24
11-18	10	20
19–30	8	16
31-50	8	16
51-80	12	24
Gender		
Female	27	54
Male	23	46
Place of residence		
City	23	46
Rural	27	54
Diagnosis		
Neuromuscular diseases	19	38
Cerebral palsy	13	26
Intellectual disability	9	18
Others	9	18
Application		
Healthsports Centres	30	60
Local therapists	20	40



















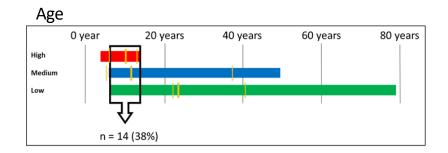


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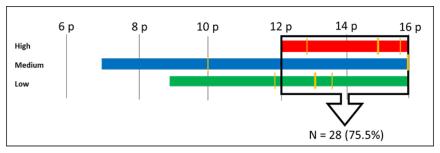




Watt when pedalling

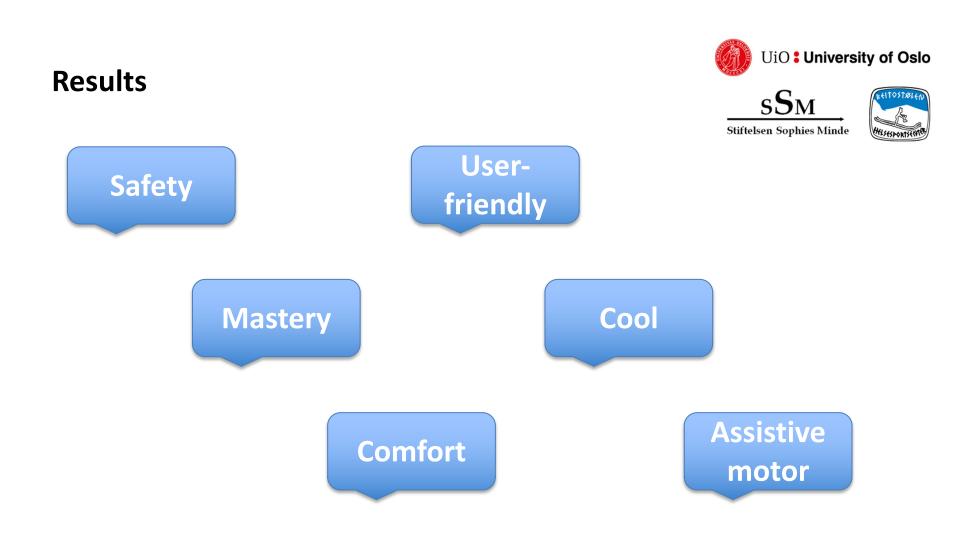
	Applied <i>highest</i> watt	Applied <i>lowest</i> watt
n	21	14
Mean	52.48	21.14
Std. Deviation	51.31	20.89
Minimum	2	2
Maximum	155	80

Trunk Impairment Scale



Activity and Participation through life

Results



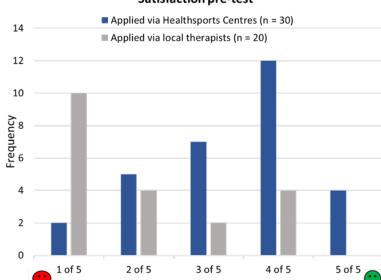


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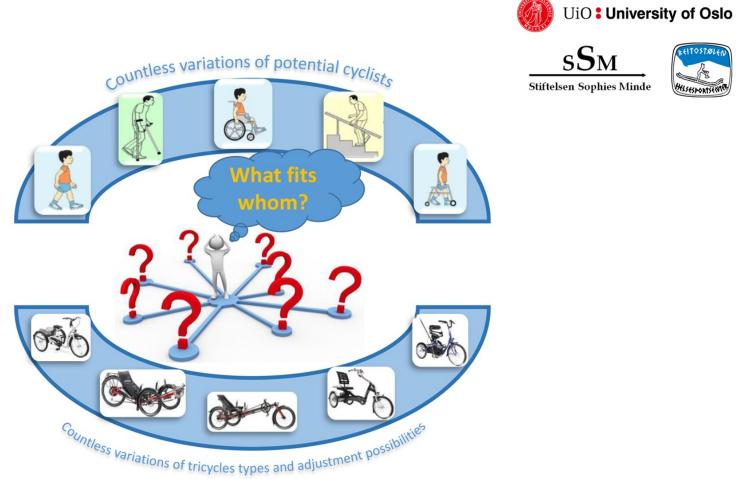


Satisfaction pre-test

Satisfaction post-test Applied via Healthsports Centres (n = 30) 16 Applied via local therapists (n = 20) 14 12 10 Frequency 4 2 0 1 of 5 2 of 5 3 of 5 4 of 5 5 of 5

Activity and Participation through life

Results







Read more?

What fits me? Procurement of adapted tricycle for activity and participation

Disability and Rehabilitation: Assistive Technology, 2021:1-9

Acquiring a tailor-made tricycle – implications for people with disabilities.

Technology and Disability, vol. 34, no. 1, pp. 35-44, 2022

Exploring physical activity level after procurement of adapted tricycle; Quantity versus enjoyment.

Soon in European Journal of Adapted Physical Activity

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