



Body composition, nutritional status and handgrip strength of people with mental disabilities in Northern Germany

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Background

- People with mental disabilities (DP's)
 - Are at higher risk for overweight and obesity [1-3]
 - Show aberrant dietary behavior [1, 3]

- 1. Emerson E et al. J Intellect Disabil Res 2005;134-43.
- 2. Rimmer JH et al. Prev Chronic Dis 2011;8(2).
- 3. Hove O et al. Res Dev Disabil 2004;9-17.



Aims

Primary Endpoint: Procentual amount of the DP in the BMI-categories in comparison to the normal German population.

- To analyse the nutrition status, body composition, muscle strength, eating habits and nutrition literacy in free-living DP.
- To compare anthropometry and body composition of the DP with the "normal" German population or with reference thresholds.



Methodology and Population

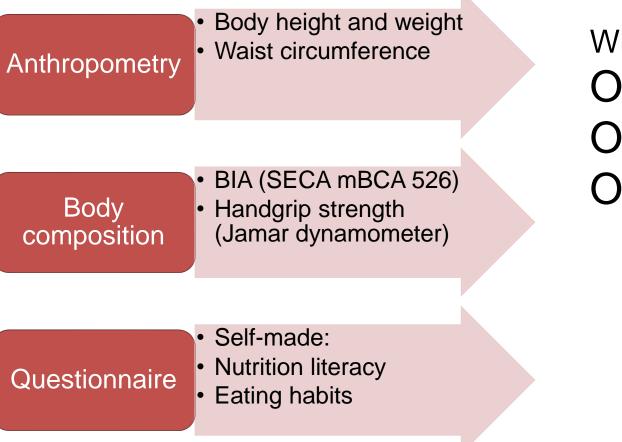
Study-Type: Cross-sectional Study





Methodology and Population

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Which food is very faty? O Bread O Egg O Oil







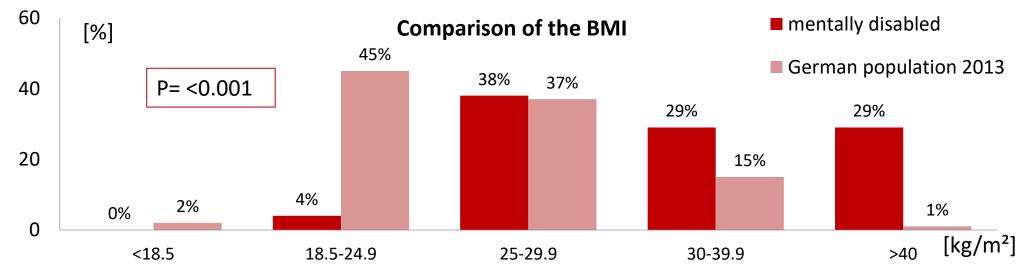
Methodology and Population

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Anthropometry	Body height and weightWaist circumference		N = 24 (14 f/ 10 m)	Study group	
				M ± SD	range
Body composition	 BIA (SECA mBCA 526) Handgrip strength (Jamar dynamometer) 		Age [years]	40.2 ± 11.1	24 - 64
			Height [cm]	167 ± 11.4	144 - 186
			Weight [kg]	99.2 ± 27.3	54.6 - 145
			BMI [kg/m²]	35.8 ± 10.1	24.9 - 55.0
Questionnaire	Self-made:Nutrition literacyEating habits		Waist circumference [cm]	111 ± 18.8	91.9 - 147
			Degree of disability	73.0 ± 16.3	50 -100



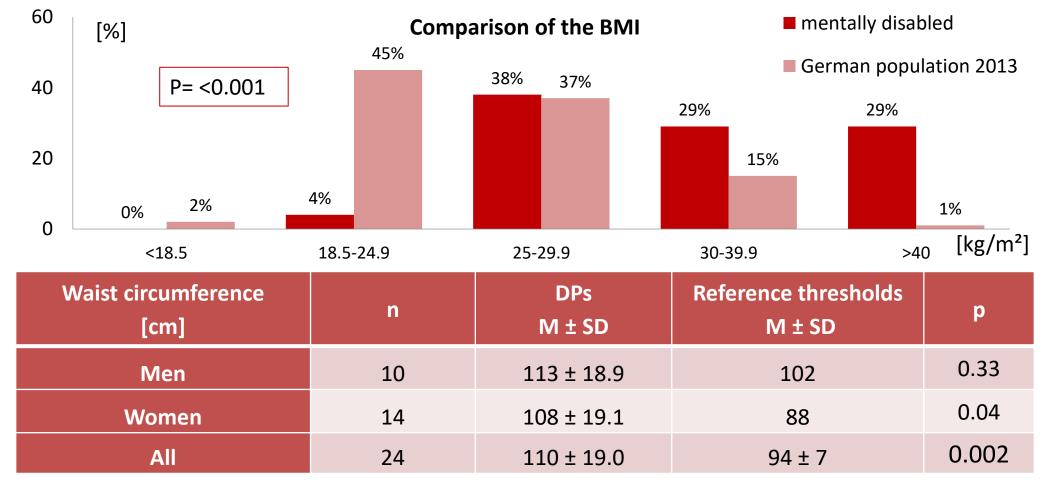
Results – Anthropometric Data





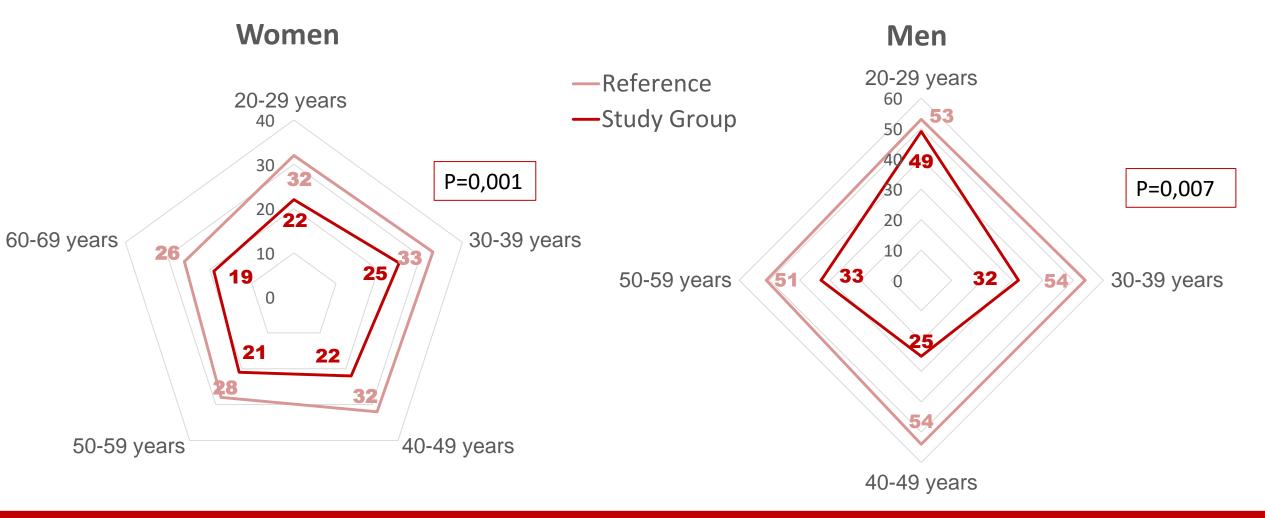


Results – Anthropometric Data



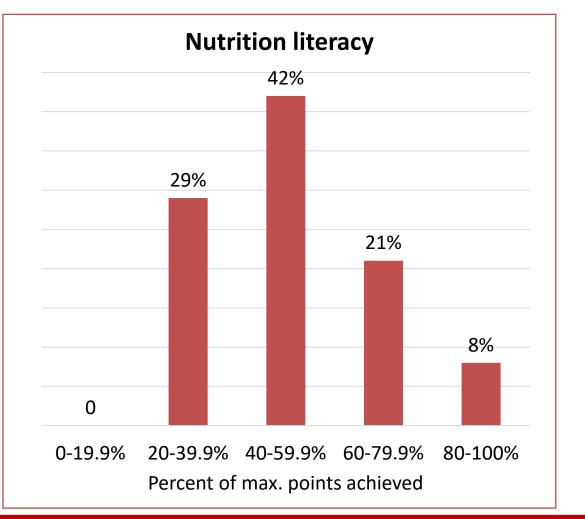


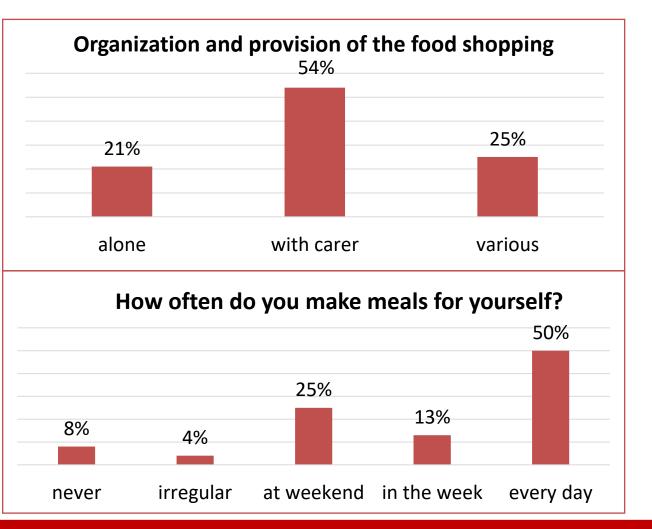
Results – Hand Grip Strength





Results





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