



Nederlands
Tweelingen
Register

NTR Biobank Enrichment: Neuropsychological Phenotyping

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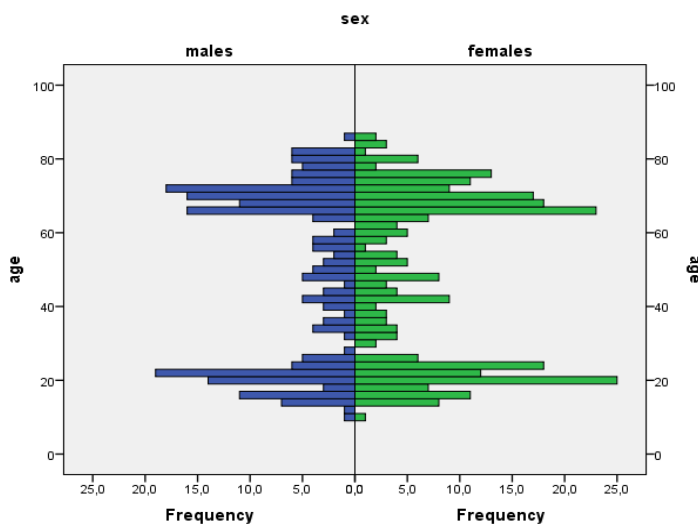
The Computerized NeuroPsychological test battery (CNP) consists of traditional tests modified for computer administration.

Cognitive functions measured in the CNP are:

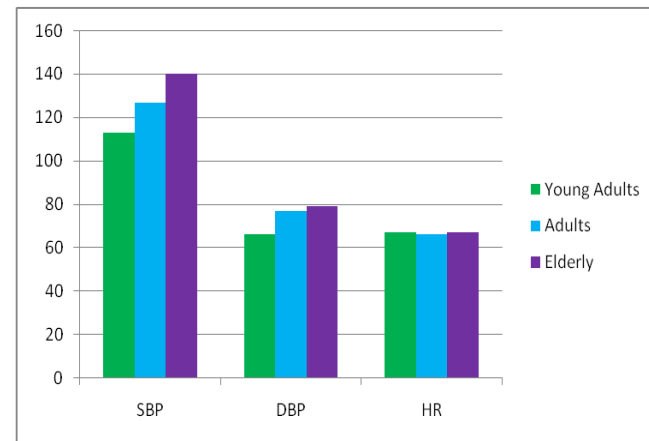
- o related to brain structures
- o sensitive to cognitive problems related to psychiatric disorders
- o show individual differences influenced by genetic factors

The tests are considered good endophenotypes in genetic studies in normal brain functioning and development, and in for example schizophrenia, and anxiety and depressive disorders.

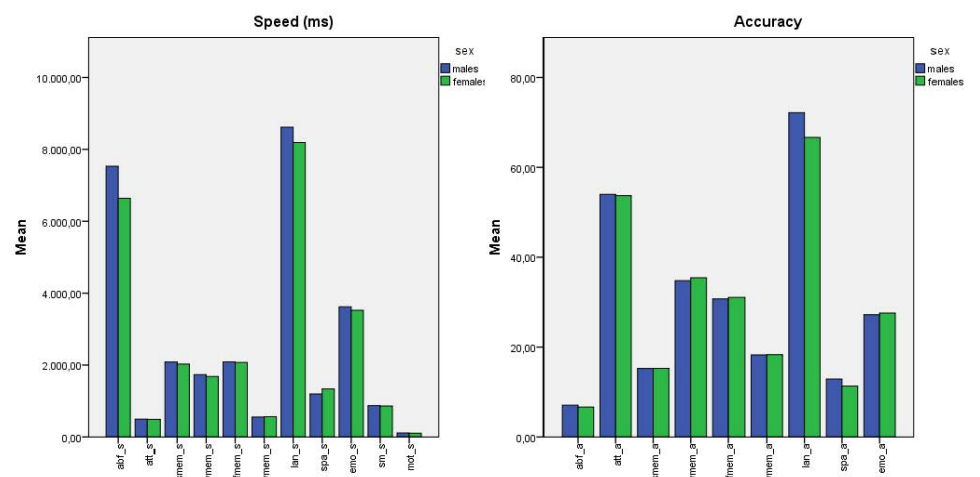
Thus far 590 participants have completed the protocol: twins, their parents and/or siblings, and several non-twins. The age distribution of the participants:



Blood pressure

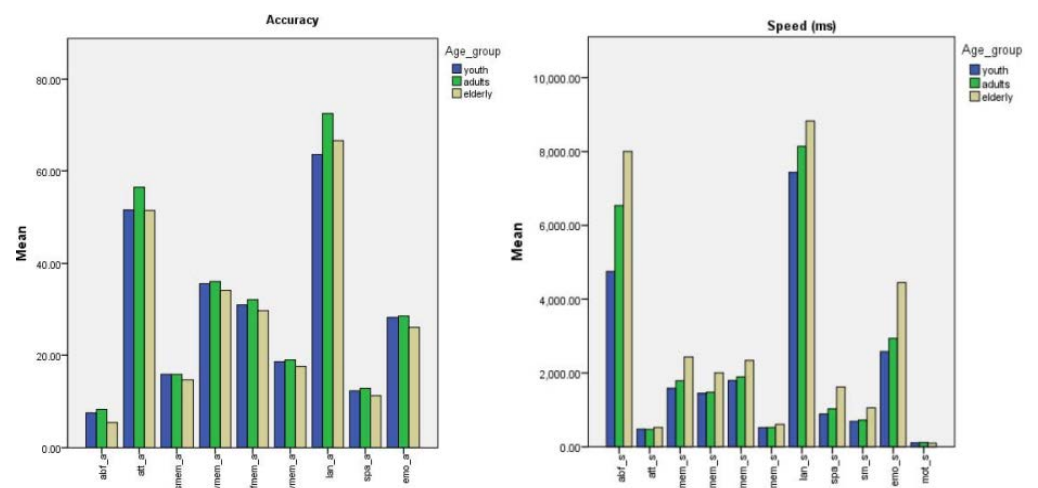


Cognitive functions and sex



During a protocol that lasted approximately 2 hours the following data were collected: blood pressure in rest and during the WebCNP, indices of autonomic and cardiovascular activity during the WebCNP and rest using the VU-AMS device, physical measures (length, weight, waist and hip circumference), and a lifestyle questionnaire.

Cognitive functions and age



COGNITIVE DOMAINS MEASURED BY COMPUTERIZED TESTS:

SENSORIMOTOR MOTOR PRAXIS		EMOTION EMOTION DIFFERENTIATION	
EMOTION EMOTION RECOGNITION		MOTOR SPEED FINGER TAPPING	
ATTENTION CONTINUOUS PERFORMANCE		ABSTRACTION AND MENTAL FLEXIBILITY MATRIX ANALYSIS	
FACE MEMORY (immediate + delayed)		SPATIAL MEMORY (immediate + delayed)	
VERBAL MEMORY (immediate + delayed)		LANGUAGE LOGICAL REASONING	
WORKING MEMORY LETTER / NUMBER N-BACK		AGE DIFFERENTIATION	
ABSTRACTION AND MENTAL FLEXIBILITY CONDITIONAL EXCLUSION		SPATIAL PROCESSING LINE ORIENTATION	