

## TEMPERAMENT IN INDIVIDUALS WITH PSYCHOTIC DISORDERS BEFORE AND AFTER THE ONSET OF ILLNESS

*J. Miettunen*<sup>1,2,3</sup>, *P. Juola*<sup>1</sup>, *E. Roivainen*<sup>4</sup>, *J. Veijola*<sup>1,2</sup>, *A. Alaräisänen*<sup>1</sup>, *M. Isohanni*<sup>1,2</sup>, *E. Jääskeläinen*<sup>1,2</sup>

<sup>1</sup>Department of Psychiatry, University of Oulu, <sup>2</sup>Department of Psychiatry, Oulu University Hospital, <sup>3</sup>Institute of Health Sciences, University of Oulu, <sup>4</sup>Cognitive Neuropsychology Laboratory, Verve Research, Oulu, Finland

**Introduction:** The Temperament and Character Inventory (TCI) is used to measure novelty seeking (NS), harm avoidance (HA), reward dependence (RD), and persistence (P).

**Objectives:** We will study temperament in individuals with psychosis and healthy controls.

**Aim:** We aim to study the stability of temperament in individuals with psychotic disorders (with onset of illness before and after first follow-up) and in healthy controls.

**Methods:** As part of the 31-year follow-up survey of the prospective population based Northern Finland 1966 Birth Cohort, the TCI was filled by a large sample of individuals. A subsample of psychotic individuals, with the onset of illness before (n=16) or after (n=15) the 31-year follow-up, and healthy controls (n=117) filled in these scales again at the age of 43. We studied also the association between psychotic symptoms and premorbid temperament.

**Results:** The 31-year and 43-year temperament scores correlated strongly among controls (Pearson's  $r$ : NS 0.68, HA 0.60, RD 0.56,  $P$  0.54), whereas correlations among psychotic individuals with the onset of psychosis before first follow-up were weaker (NS 0.38, HA 0.50, RD 0.17,  $P$  0.53). High HA before the onset of illness (at age of 31 years) associated significantly with a lower likelihood of remission and with more negative, disorganization and total symptoms in the PANSS. High NS before illness associated with a higher likelihood of remission according to the PANSS.

**Conclusions:** Temperament was stable among controls, and more unstable in individuals with psychoses. Premorbid harm avoidance and novelty seeking predicts the clinical outcome in schizophrenia.