

Deficits of cognitive theory of mind and its relationship with functioning in individuals with an at-risk mental state and first-episode psychosis

Noriyuki Ohmuro, Masahiro Katsura, Chika Obara, Tatsuo Kikuchi, Atsushi Sakuma, Kunio Iizuka, Yumiko Hamaie, Fumiaki Ito, Hiroo Matsuoka, Kazunori Matsumoto



PII: S0165-1781(16)30080-4  
DOI: <http://dx.doi.org/10.1016/j.psychres.2016.06.051>  
Reference: PSY9802

To appear in: *Psychiatry Research*

Received date: 15 January 2016  
Revised date: 11 April 2016  
Accepted date: 26 June 2016

Cite this article as: Noriyuki Ohmuro, Masahiro Katsura, Chika Obara, Tatsuo Kikuchi, Atsushi Sakuma, Kunio Iizuka, Yumiko Hamaie, Fumiaki Ito, Hiroo Matsuoka and Kazunori Matsumoto, Deficits of cognitive theory of mind and its relationship with functioning in individuals with an at-risk mental state and first episode psychosis, *Psychiatry Research*, <http://dx.doi.org/10.1016/j.psychres.2016.06.051>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Full title:

Deficits of cognitive theory of mind and its relationship with functioning in individuals with an at-risk mental state and first-episode psychosis

## Authors:

Noriyuki Ohmuro <sup>a</sup>, Masahiro Katsura <sup>a</sup>, Chika Obara <sup>b</sup>, Tatsuo Kikuchi <sup>b</sup>, Atsushi Sakuma <sup>a</sup>, Kunio Iizuka <sup>a</sup>, Yumiko Hamaie <sup>a,b</sup>, Fumiaki Ito <sup>a</sup>, Hiroo Matsuoka <sup>a,b,c</sup>, Kazunori Matsumoto <sup>a,b,c</sup>

## Affiliations:

<sup>a</sup> Department of Psychiatry, Tohoku University Hospital, 1-1, Seiryō-machi, Aoba-ku, Sendai, Miyagi, Japan

<sup>b</sup> Department of Psychiatry, Tohoku University Graduate School of Medicine, 2-1, Seiryō-machi, Aoba-ku, Sendai, Miyagi, Japan

<sup>c</sup> Department of Preventive Psychiatry, Tohoku University Graduate School of Medicine, 2-1, Seiryō-machi, Aoba-ku, Sendai, Miyagi, Japan

## Contact information for the corresponding author:

Name of the corresponding author: Noriyuki Ohmuro

Address: Department of Psychiatry, Tohoku University Hospital, 1-1, Seiryō-machi, Aoba-ku, Sendai, Miyagi 980-8574, Japan

Tel.: +81 22 717 7262; Fax: +81 22 717 7266

E-mail address: ohmuro24@yahoo.co.jp

## Abstract

Disturbance of theory of mind (ToM) and its relationship with functioning in schizophrenia is well documented; however, this is unclear in spectrum disorders like at-risk mental state (ARMS) and first-episode psychosis (FEP). To assess mental state reasoning ability, the total score of the Theory of Mind Picture Stories Task questionnaire was compared among 36 Japanese individuals with ARMS, 40 with FEP, and 25 healthy controls (HC). Pearson's correlations between ToM performance and global and social functioning indices were examined. ToM performance for FEP and ARMS subjects was significantly lower than that for HC, though the significance of the difference between the ARMS and HC disappeared when controlling for premorbid IQ. ToM deficits in ARMS subjects were confirmed only in the comprehension of higher-order false belief. Only among FEP subjects were ToM performance and global functioning significantly correlated, though the significance disappeared when controlling for neurocognitive performance or dose of antipsychotics. No significant correlation between ToM performance and social functioning was observed in the FEP and ARMS groups. The current findings suggest that ToM deficits emerge in ARMS subjects confined within a higher-order domain, and that the

Download English Version:

<https://daneshyari.com/en/article/6812832>

Download Persian Version:

<https://daneshyari.com/article/6812832>

[Daneshyari.com](https://daneshyari.com)