Greater social cognition-related right temporal pole activation in World Trade Center Responders with PTSD: preliminary evidence

Icahn School of Medicine at Mount

CONCLUSIONS

Sinai

The Friedman Brain Institute

S.H. Seeley¹, Z. Schreiber¹, M. Verghese¹, T. Leska¹, L.S. Morris¹, L. Cahn¹, E. Hermans², R.H. Pietrzak^{3,4}, M.M. Perez-Rodriguez¹, & A. Feder¹.

¹Icahn School of Medicine at Mount Sinai, ²Donders Institute for Brain, Cognition and Behaviour, ³US Department of Veterans Affairs National Center for PTSD, ⁴Yale University

Behavioral data

INTRODUCTION

The neural instantiation of social cognition (as a psychological factor associated with greater resilience to traumatic stressors), is an emerging but important area for understanding interpersonal dysfunction in PTSD.

OBJECTIVES

compared both to highly resilient and lower-

related BOLD activation in hypothesized regions of interest

relative to both lower-exposed and resilient

METHOD & RESULTS

fMRI results

LIMITATIONS

REFERENCES

FUNDING

In this study, we sought to examine social cognition-related brain activation during a mentalizing task in symptomatic individuals with PTSD.

exposed controls. We hypothesized that the PTSD

group would show lower social cognition-

control groups.

Accuracy by group & trial type (N = 82)

All groups had comparable accuracy on Non-social trials, but the PTSD group was less accurate on Social trials than than other groups. Across the sample, accuracy rates were lower in the Social condition vs. the Non-social condition.

Mean RTs by group & trial

type (N = 82)
All three groups were slower to respond on Social trials vs. Non-social trials, with no significant group differences in either condition.

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fMRI methods

SOCIAL COGNITION TASK

Does the word match the face? Press right for Yes and left for No



