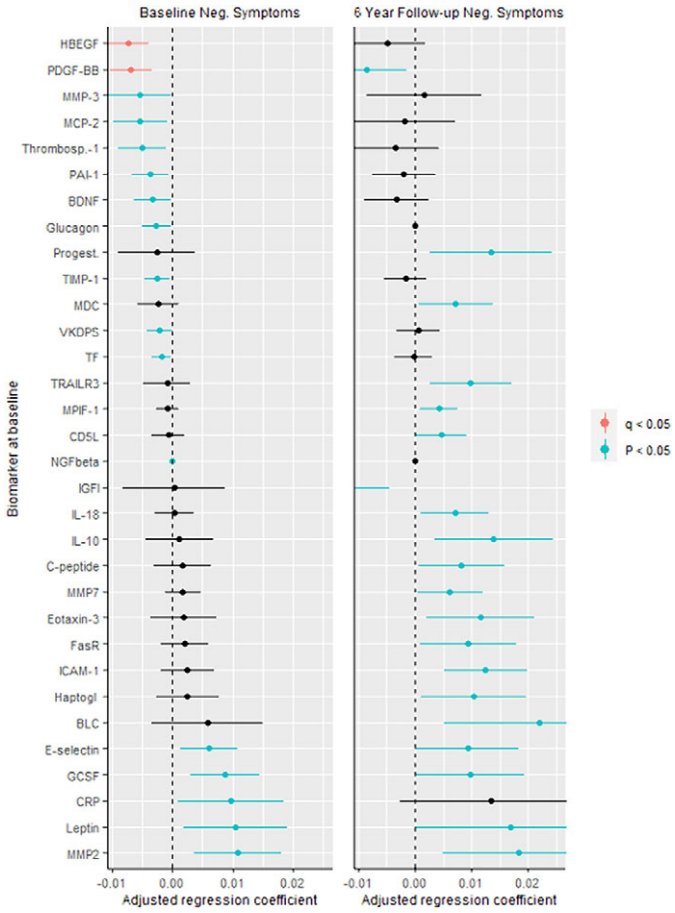


Methods: We investigated serum biomarkers in an epidemiological study on schizophrenia (N, baseline=110; N, follow-up=65). Negative symptoms were measured using the Positive and Negative Syndrome Scale. Biomarkers (N=189) were measured with a multianalyte profiling platform and analysed using linear regression models, adjusted for site, age, gender, ethnicity, anti-inflammatory agents, smoking, cardiovascular disease and diabetes, and adjusted for multiple comparisons (q, Benjamini-Hochberg procedure).
Results: In particular, decreased platelet-derived growth factor (PDGF) (responsible for proliferation of oligodendrocytes) was associated with more negative symptoms at baseline and follow-up (figure). Several other biomarkers associated with inflammation, neuroplasticity and metabolism correlated with the severity of negative symptoms cross-sectionally and/or prospectively. Figure. Biomarkers for Negative Symptoms in Schizophrenia.
Conclusions: Although our sample size at follow-up was limited, we feel that these analyses contribute to further research of possible predictive biomarkers for negative symptoms in schizophrenia. During the conference we will elaborate our findings with applied machine learning techniques which might shed more light on the predictive value of biomarkers for negative symptoms in schizophrenia.

Disclosure: No significant relationships.
Keywords: biomarker; Inflammation; Growth Factors; negative symptoms

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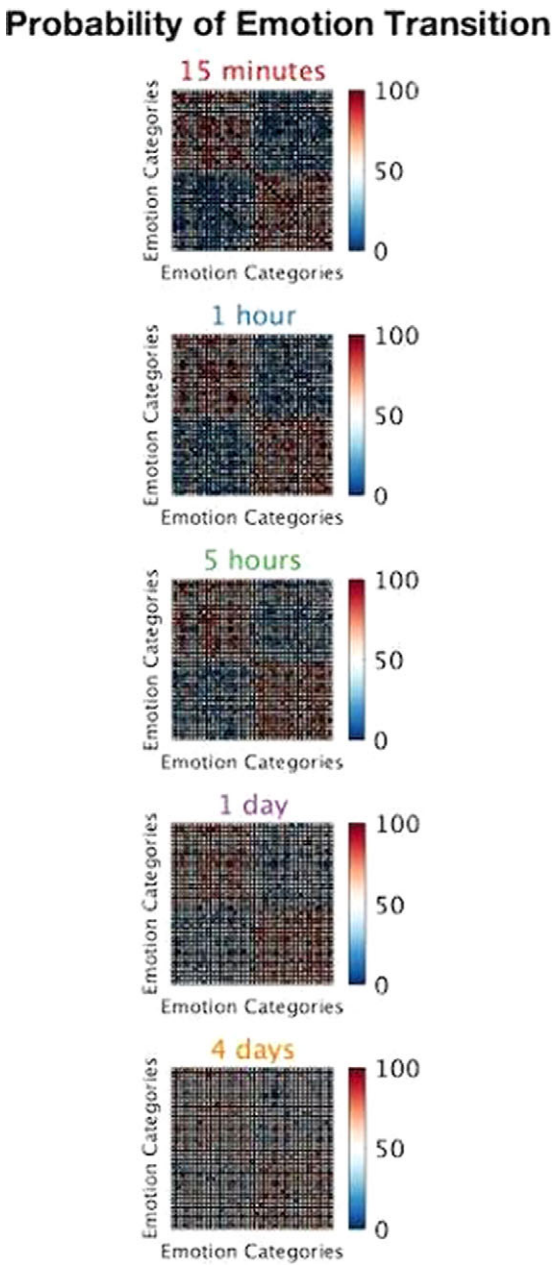
How far in the future can we predict others' affective states?

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Introduction: Human social interactions are rooted in the ability to understand and predict one's own and others emotions. Individuals develop accurate mental models of emotional transitions (MMET)



by observing regularities in affective experiences (DOI: 10.1073/pnas.1616056114) and a failure in this regard can produce maladaptive behaviors, one of the hallmark features in several psychiatric conditions.
Objectives: To investigate whether MMET are stable over time and which emotion dimensions (e.g., valence, dominance) influence MMET over time.
Methods: We selected thirty-seven emotion categories (DOI: 10.1177/0539018405058216) and five different time intervals (from 15 minutes to 4 days). Sixty-two healthy participants rated the likelihood of transition between all possible pairs of affective states at each time interval.
Results: As expected, we observed a trend toward uncertainty as the timescale increased. In addition, the probability of shifting between two affective states having the same valence (e.g., happiness and contentment) was rated higher than for emotions with opposite polarity (e.g., happiness and sadness). Even though this pattern becomes gradually noisier for predictions far in the future, it is still present for infradian intervals (Fig.1).
Conclusions: Our results suggest that MMET are informed by the valence dimension and moderately influenced by the timescale of the prediction. These findings in the healthy population may prompt the exploration of emotion dynamics in psychiatric conditions. Future studies could leverage the MMET approach to test whether specific psychiatric disorders (e.g., bipolar disorder) are associated with abnormal patterns of emotion transitions.

Disclosure: No significant relationships.
Keywords: emotion; Emotion Dynamics; social cognition; theory of mind

O185

Correlation of neurotrophic and neuropsychological parameters in alzheimer's disease

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Introduction: Alzheimer's disease (AD) is a neurodegenerative pathology that develops mainly in elderly and senile people. Disruption of BDNF transport or suppression of its production appears to be typical for people of old age.
Objectives: Objective: To investigate the influence of Alzheimer's disease on the secretion of brain factors and correlate with neuropsychological profiles.
Methods: 12 men (2) and women (10) with Alzheimer's disease were examined. The average age of the subjects was 76.25 + 4.89. Methods: MMSE, ADAS-COG, laboratory - BDNF was performed using the G7611 BDNF Emax (R) ImmunoAssaySystem 5 x 96 wells, BDNF Emax® Immunological test.
Results: 2 patients have mild dementia, 8 patients have moderate dementia, 2 patients have severe dementia. The average age of patients with mild dementia was 72.0 + 1.0. The average MMSE score is 16.7 + 3.4. Correlation analysis showed a close relationship between a pronounced decrease in memory in memory tests (ADAS-COG) and a pronounced decrease in blood BDNF content (r = 0.676). A close statistically significant relationship was found between a low result of the recognition test and a low blood BDNF content (r = 0.598).
Conclusions: we assume that blood BDNF is a marker of pathologically accelerated aging of the central nervous system, since low test results for mnestic function are an indicator of severe degeneration in Alzheimer's disease

Disclosure: No significant relationships.
Keywords: blood BDNF and dementia; BDNF; Alzheimer's disease

O186

With both eyes open – translational research using eye-tracking combined with performance-based evaluation among people with severe mental illness

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Introduction: Individuals with severe mental illnesses (SMI) often find it hard to perform daily activities such as grocery shopping, which require intact executive functions. The use of performance-based evaluations is valuable, but lacks the subjects' point of view during task performance.
Objectives: The aim of the current presentation is to bring together performance-based observation and cognitive science methods to provide insights regarding real-life behavior and problem solving in SMI populations.
Methods: In this quasi-experimental study, forty-three individuals performed the Test of Grocery Shopping Skills (TOGSS) while wearing an eye-tracking device. Eye-movement patterns served as a proxy of executive functions in people with and without SMI during a real-life ingredient selection task. We hypothesized that significant differences will be found between people with SMI and controls in TOGSS sub-outcomes as well as in eye-fixation durations.
Results: TOGSS sub-outcomes indicative of performance efficiency (time and redundancy) were significantly higher in the research group compared to matched controls ($P<0.01$). Average fixation duration was found to be significantly higher for the research group compared to matched controls ($P<0.05$) for two of the four item-selection tasks.
Conclusions: These preliminary findings indicate that when confronted with a selection task, individuals with SMI spend more dwelling time while selecting ingredients. Further analyses on these data will examine how this time is spent (e.g. focusing on irrelevant information). The outlined approach may prove beneficial in illuminating specific behavioral and physiological difficulties in individuals with SMI, particularly in the evolving Covid-19 situation, which poses novel social and health-related challenges on real-life tasks.

Disclosure: No significant relationships.
Keywords: real-life; daily activities; efficiency; Executive functions

O187

Neuropsychological profile and correlation with outcomes in patients admitted to spdc

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