

Synopsis for EU-GEI WP5 Publication

Synopsis no.: S.5.24
Preliminary title: Inflammatory markers and transition to psychosis
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Publication category: 3, Publications from a single work package involving only some parties (or in some cases only one party) in the Work Package
Working and writing group: Valeria Mondelli and student doing laboratory work for analysis of serum cytokines, in collaboration with Paola Dazzan, Philip McGuire, Matthew Kempton, Maria Calem, and Lucia Valmaggia
Work Packages involved: WP5
EU-GEI Partners involved from whom candidate co-authors (<i>additional to working and writing group</i>) should be nominated:
Objectives (scientific background, hypothesis, methods, and expected results): Increasing literature supports the evidence of pro-inflammatory state at the onset of psychosis. We would like to test if elevated inflammatory markers predict transition to psychosis; we hypothesise that increased levels of single inflammatory markers as well as increased cumulative inflammatory load (measured by the integration of different markers) would predict transition to psychosis. We plan to analyse serum cytokines from samples of 250 subjects from EUGEI study (collected across different EUGEI sites). We will use a luminex cytokine human ultrasensitive magnetic 10 plex panel (IL1beta, IL2, IL4, IL5, IL6, IL8, IL10, TNF-alpha, INF-gamma, GM-CSF). In order to analyse these inflammatory markers, we would only need 100 ul of serum from each sample.
Data needed for the study: (please list the EU-GEI WP5 instruments) <ul style="list-style-type: none">- Serum (100ul)- Information about psychopathology and transition to psychosis
Plan for statistical analysis (overall strategy): Statistical analyses would vary according to the hypothesis tested.
Other analyses/methods: Analyses of the cytokines will be performed at the James Black Centre using luminex multiplex panel.
Involvement of external Parties (non EU-GEI):

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IPR check (Intellectual property rights):

Timeframe:

The analyses of the cytokines should take not more than a month to be completed. The subsequent statistical analyses and writing of the papers could be done in the following 3-6 months.

Additional comments: