Analyzing the Causal Crowd Behaviors of COVID-19 and the Impact of Pandemic on Public Mental Health for Developing a Predictive Model of COVID-like-illness

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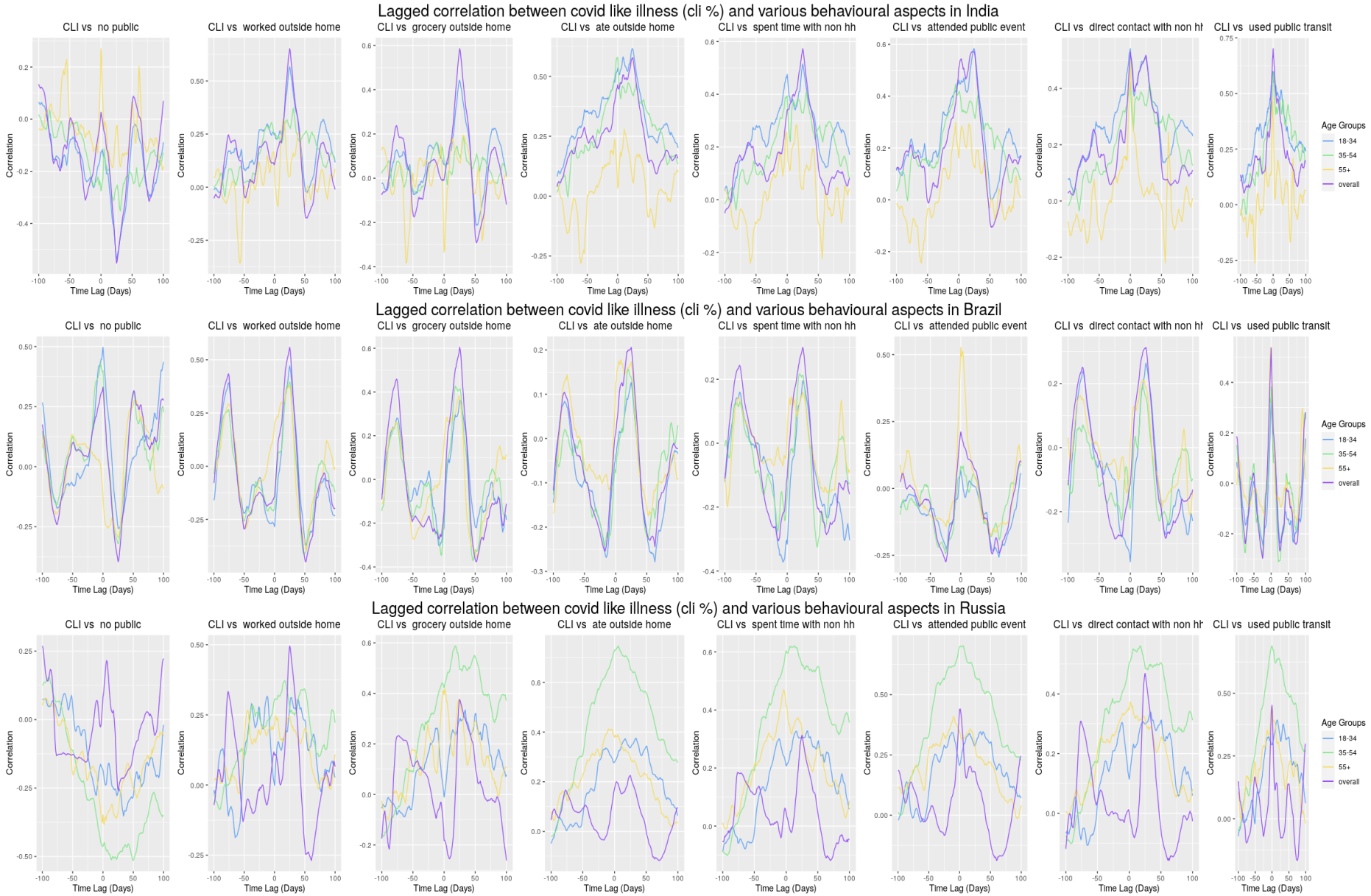
Causal Behavioral Aspects of CLI

- Outside home activities have significant correlations with CLI
  - Analysis on global Scale
    - Attending public events
    - Usage of public transport
  - Analysis of public behavior in USA
    - Outside contact in social gathering
    - Avoid contact all or most time
  - The Lagged correlations also suggests the correlations of crowd behavioral aspects with the spread of CLI

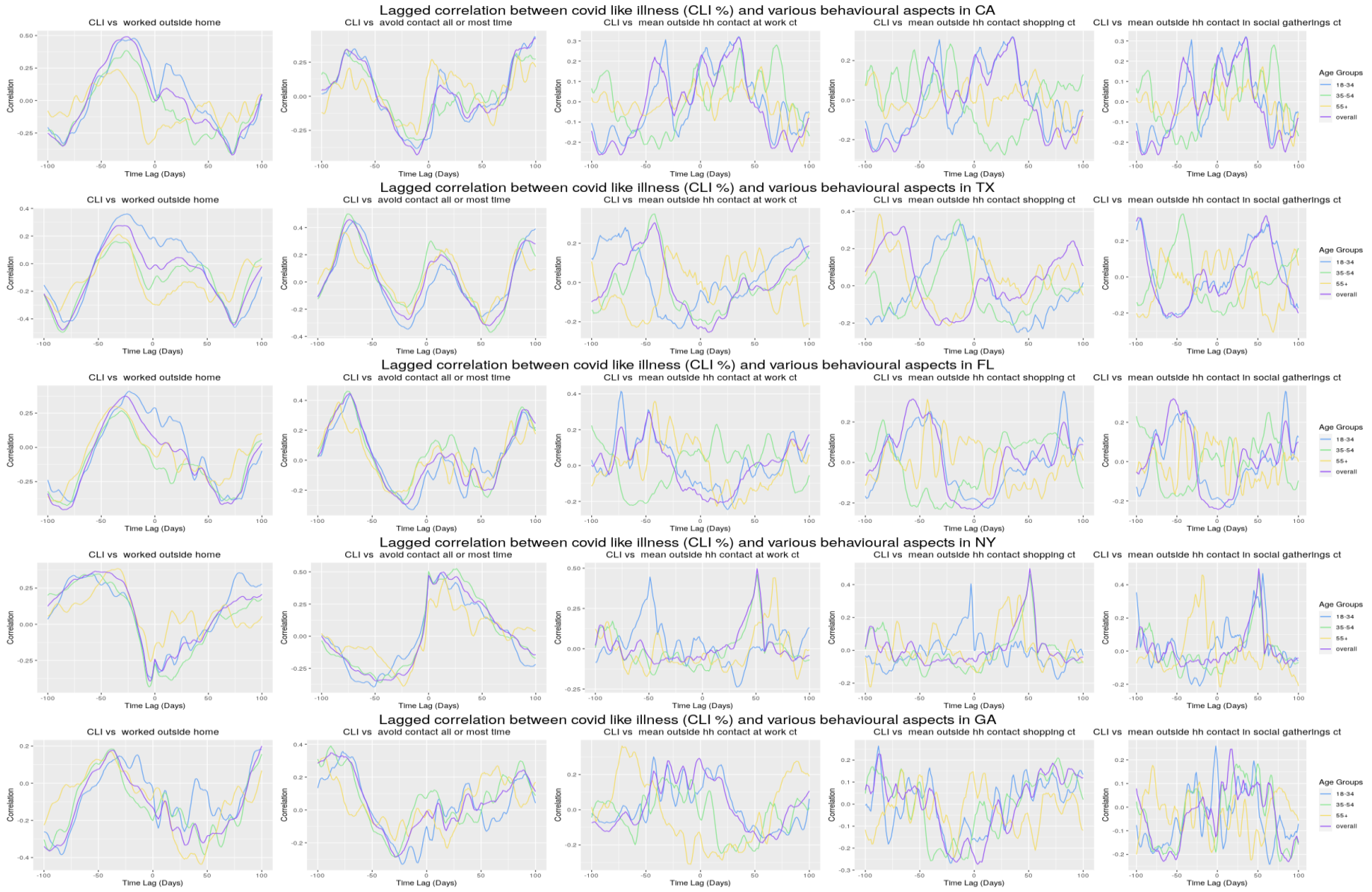
Causal human behaviors on the spread of CLI (Global)

Outside human activities have significant impact on the spread of CLI in the countries with highest COVID-19 Cases



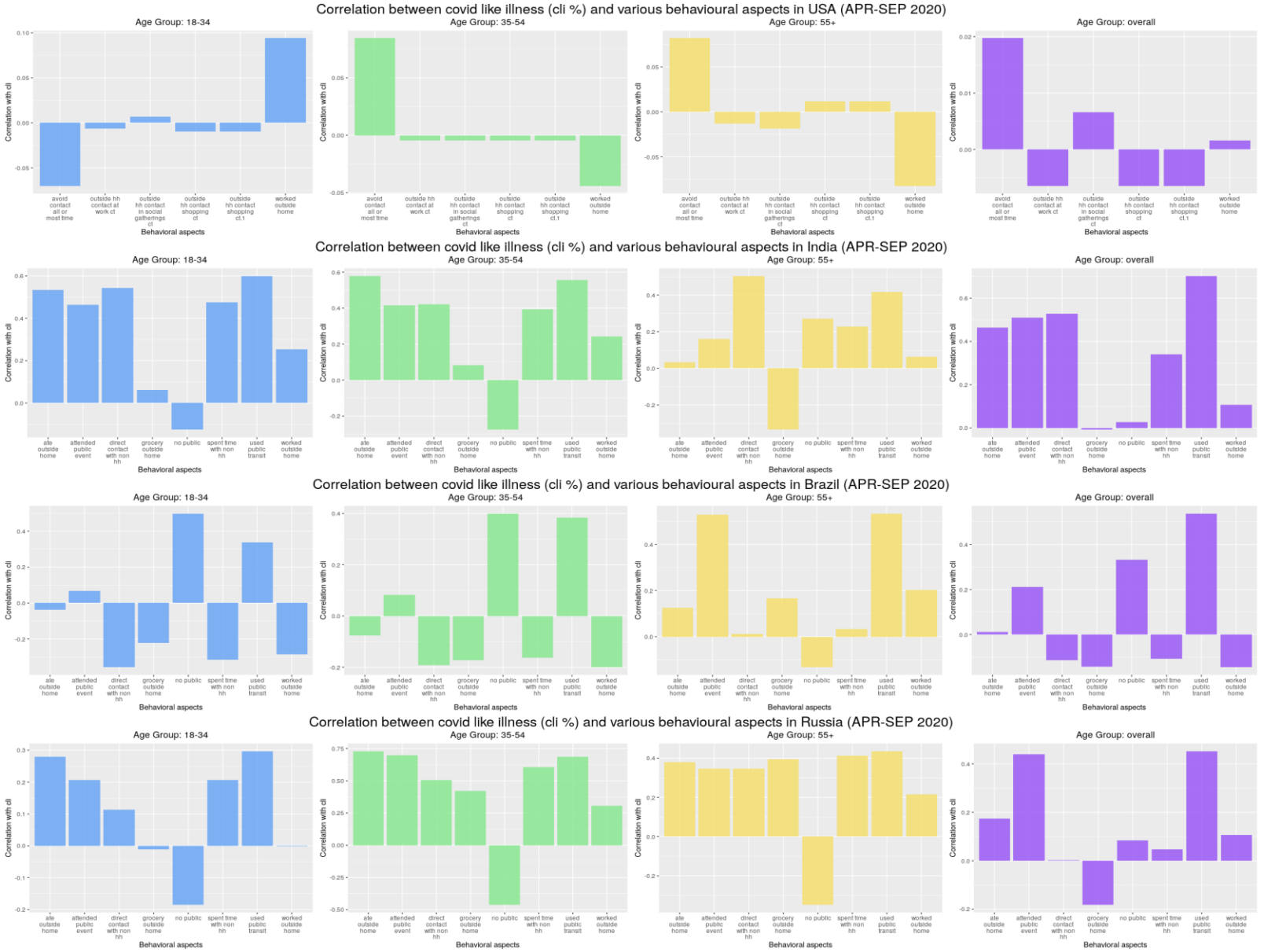
Causal human behaviors on the spread of CLI (USA)

Outside human activities have significant impact on the spread of CLI in the states of USA with highest COVID-19 Cases



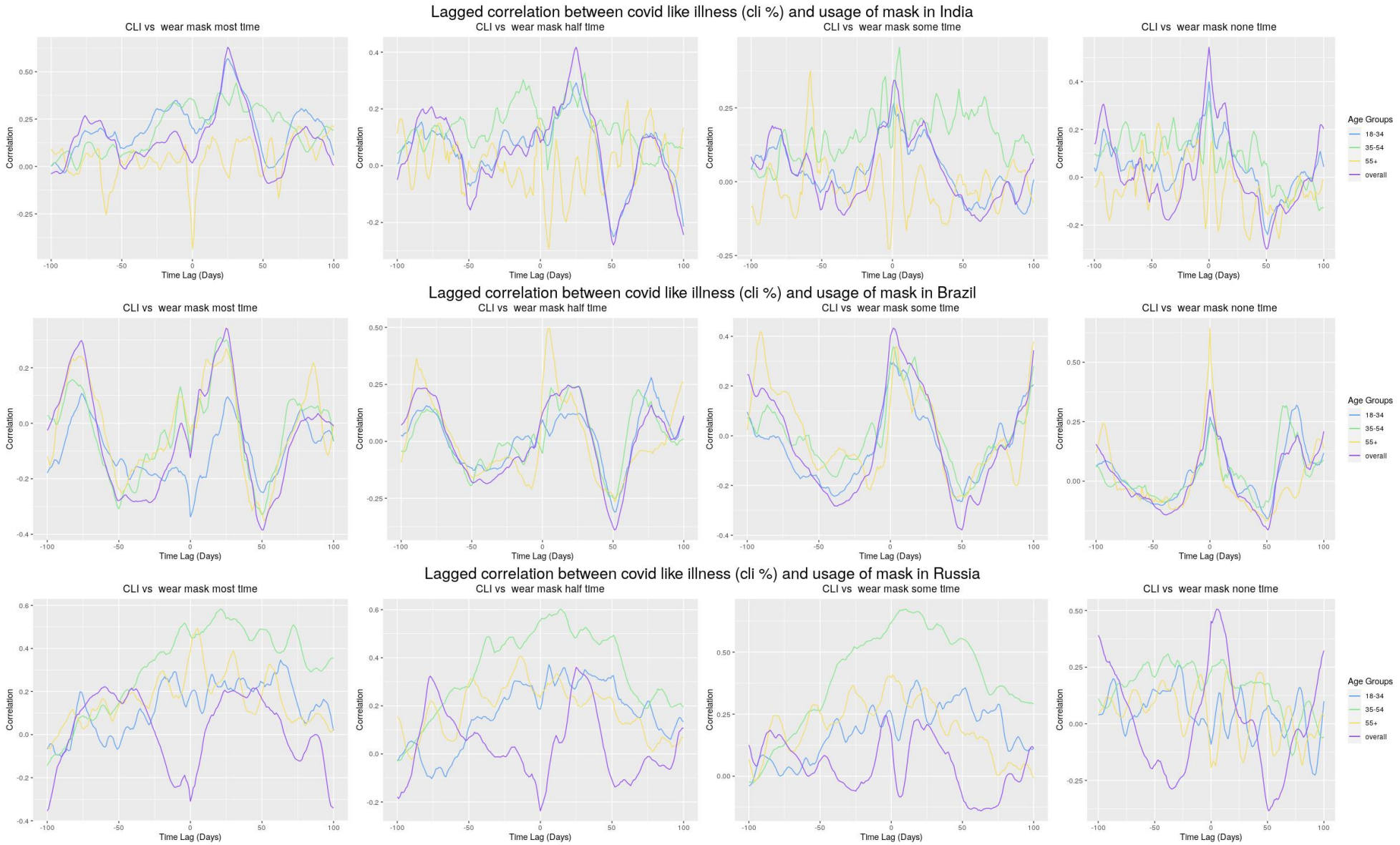
Causal human behaviors on the spread of CLI(USA & Global)

Outside human activities have significant impact on the spread of CLI



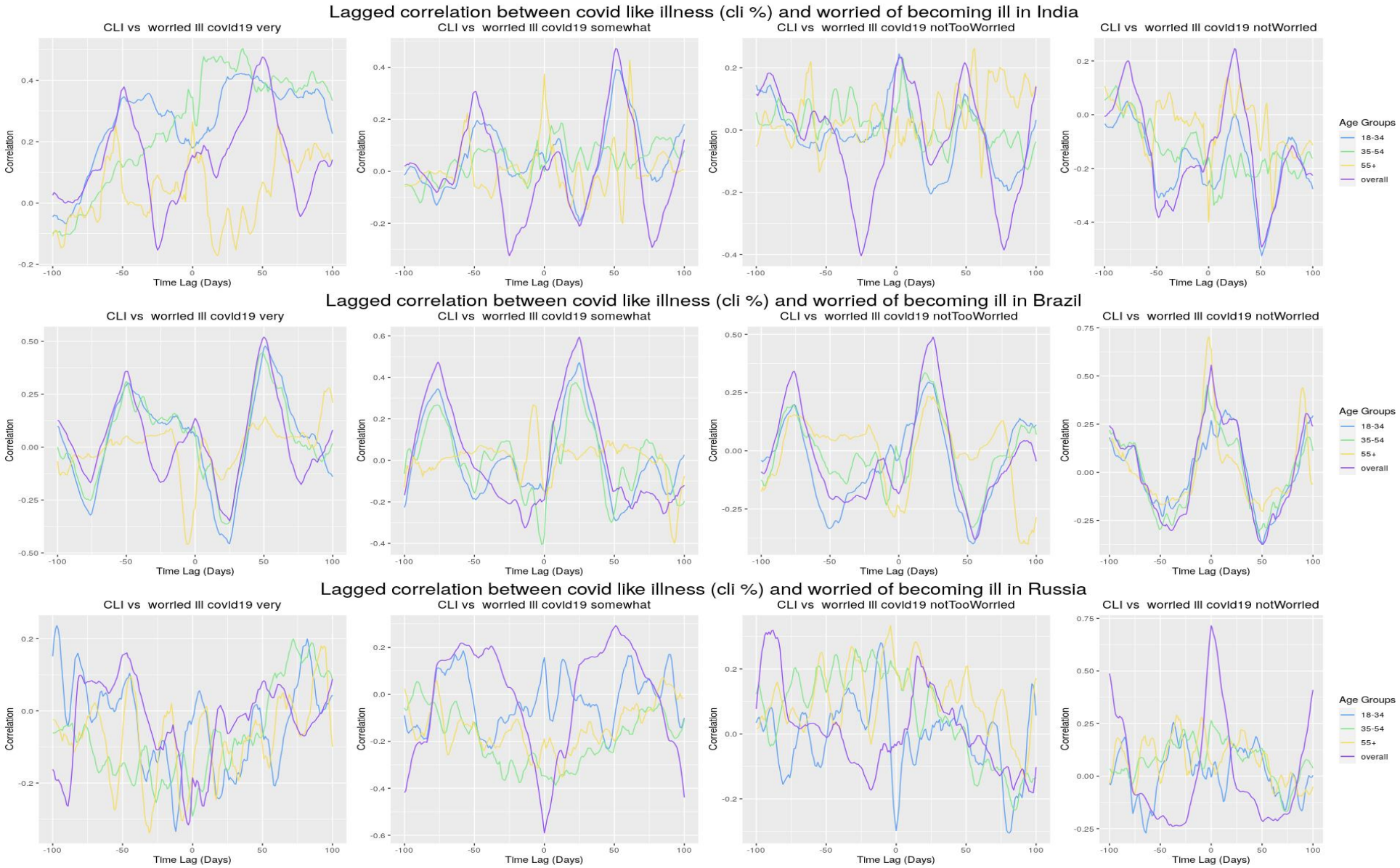
Wear Masks?

Occasionnaly waering mask significantly increase the spread of CLI



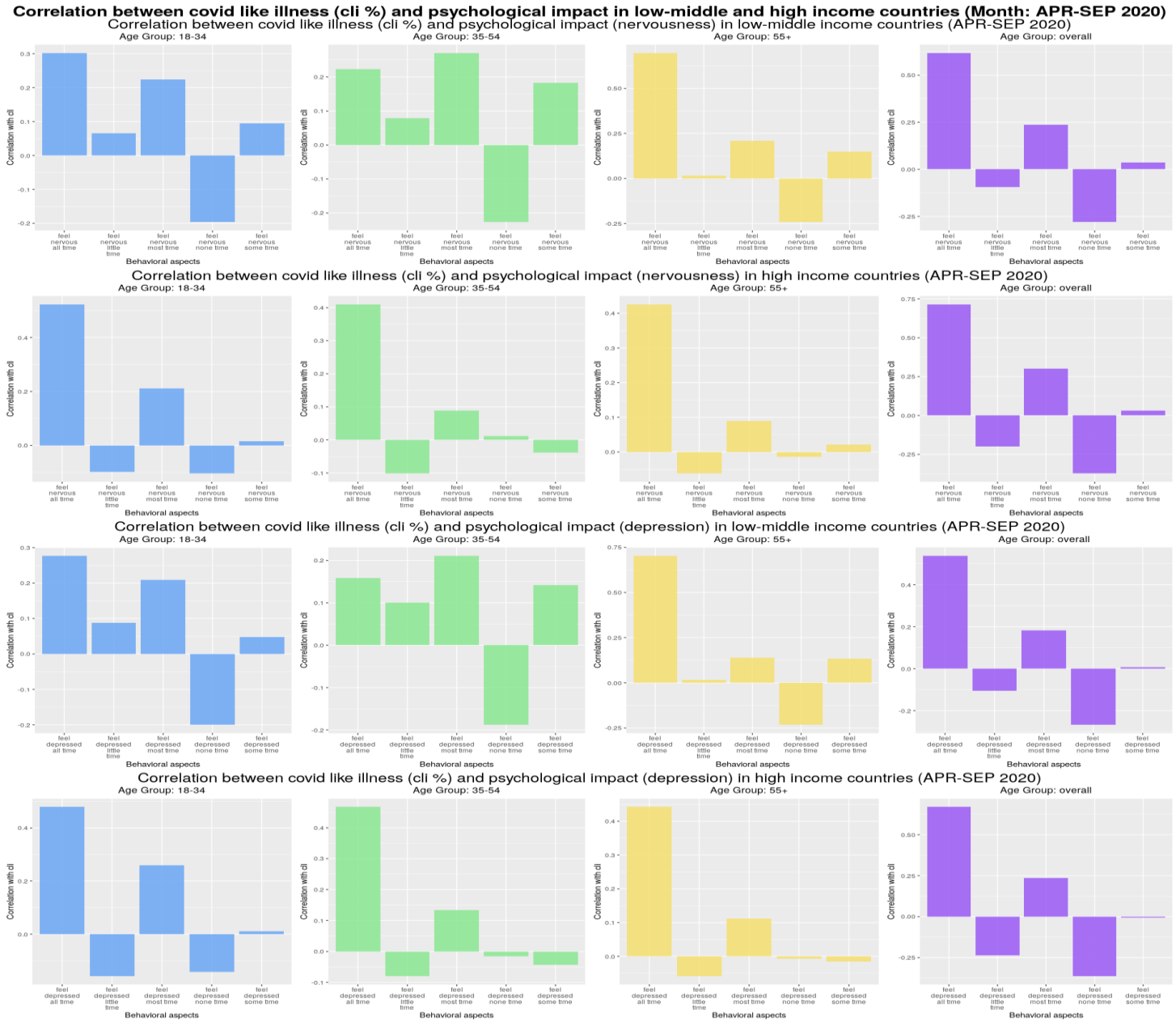
Should we worry about becoming ill?

Not to worry about becoming ill aid to increase the spread the CLI



Does the pandemic have impact on public mental health?

Pandemic have a significant impact on the public mental health



Does the pandemic have impact on public mental health?

Pandemic have a significant impact on the public mental health

Analysis Summary

- Outside the home activities have a significant impact on the spread of CLI.
- Not wearing masks can increase CLI infections.
- Not to worry about becoming ill may lead to negligiant human behavior and thus increase the CLI infections.
- COVID-19 pandemic has a significant impact on public mental health.