

## WHO TRUSTS THE COVID-19 VACCINE: EXPLORING TARGETS FOR SUPPORT OF COVID-19 VACCINE

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## 1. Introduction

- Distrust in vaccines can lead to the spread of misinformation and hesitancy to get vaccinated when vaccines become available<sup>1,2</sup>.
- Hesitancy to get vaccinated against COVID-19 is a major obstacle in ending the pandemic<sup>3</sup>.
- Using network analysis to explore important target points for future COVID-19 vaccination campaigns.

#### **Demographics**

●1: Age

### Personality

- •4: Agreeableness
- •5: Neuroticism
- •6: Openness

#### Living

- 2: Hometown
- •3: Current Residence

Science: Belief/trust

- 7: Belief in science
- 8: COVID-19 vaccine trust

Maximum = 0.21

### 2. Methods

517 subjects (343 female, 157 males, 17 other) Age 31.4 ± 13.6 years, 476 fully vaccinated

#### 8 variables:

- Trust in COVID-19 vaccine
- Belief in Science
- Age
- Agreeableness
- Neuroticism (
- Openness
- Rural/urban profile hometowr
- Rural/urban profile current residence

GGM, EBICglasso with Spearman correlations Non-parametric bootstrap for edge stability

# 3. Conclusion

- Stable positive relation between trust in COVID-19 vaccine and belief in science
- Unstable positive relation between trust in COVID-19 vaccine and more urban profile of current residence
- Two other stables relations that were found were between age and neuroticism (negative), and between current residence and hometown (positive).

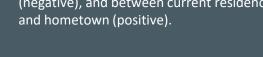
## 4. Discussion

This study reveals two possible target points for future COVID-19 vaccination campaigns.

#### Limitations

- The maximum correlation is only 0.21
- Relatively small sample size -> only a few nodes could be included.

Future research: include more variables, such as science background and health situation.



#### References