

## Reflections on Distancing to a Hazard



- Virological Distancing:
- Droplets/Aerosols can travel > 2 meters
- Environmental conditions & volume/concentration influence travel distance
- Oversimplification

#### Social Distancing:

 Includes avoiding body contact, keeping distance, self-isolation, gatherings, travel, closure of "non-essential" workplaces, closure of schools, restricted access to care homes, etc.

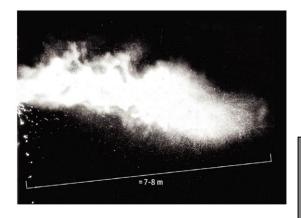
Schroter 2020

Douglas, Katikireddi et al. 2020

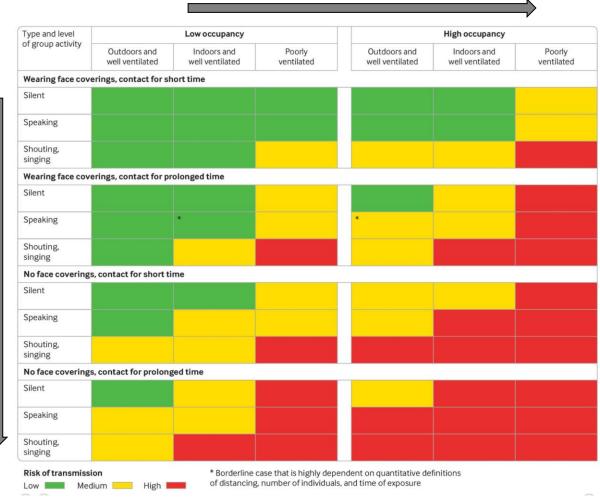
Jones, Qureshi et al. 2020

# Reflections on Distancing to a Hazard





#### Risk of Transmission 1



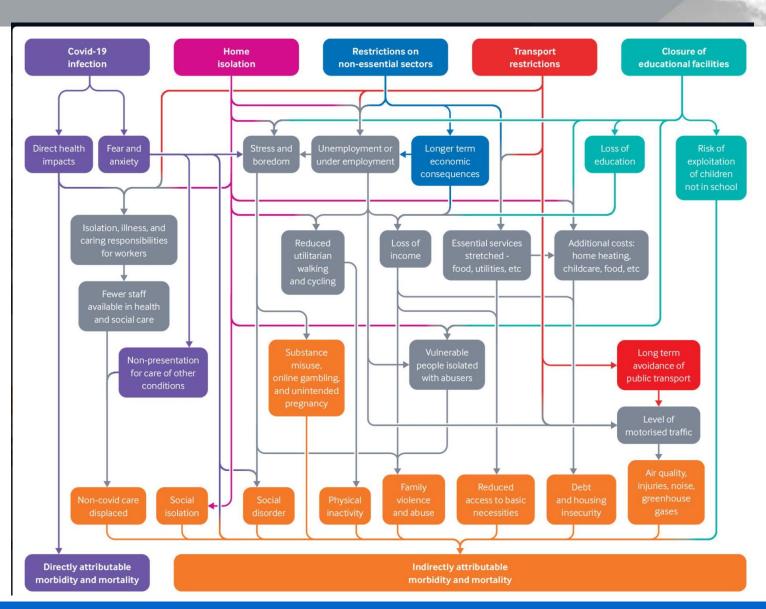
Jones, Qureshi et al. 2020

## Current Scientific Background

- Research on social distancing and its impacts is emerging
- Observational data?
- Ongoing/dynamic pandemic: Great number of changing variables
- Physical distancing versus social distancing
- Social distancing measures are effective, bundles/lockdown
- Early implementation is effective

Islam, Sharp et al. 2020

### Health Outcomes



Douglas and Katikireddi et al. 2020

### Health Outcomes

- Social distancing can lead to social isolation
- Bundle of negative effects: Inactivity, unhealthy diet, drinking, smoking, cardiovascular disease,...
- Worsening of mental health, anxiety, post-traumatic stress disorders, depression, dementia, sleep problems
- Isolation affects vulnerable people most: Slow groups, patients with chronic conditions

Gupta and Dhamija 2020

Gilan and Röthke et al. 2020

# Thank You

Benedikt.Lenzer@Charite.de