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Temperature and health *Current and future challenges of a changing population in a changing climate*

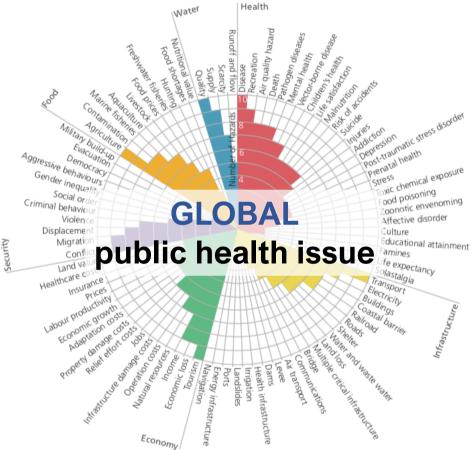
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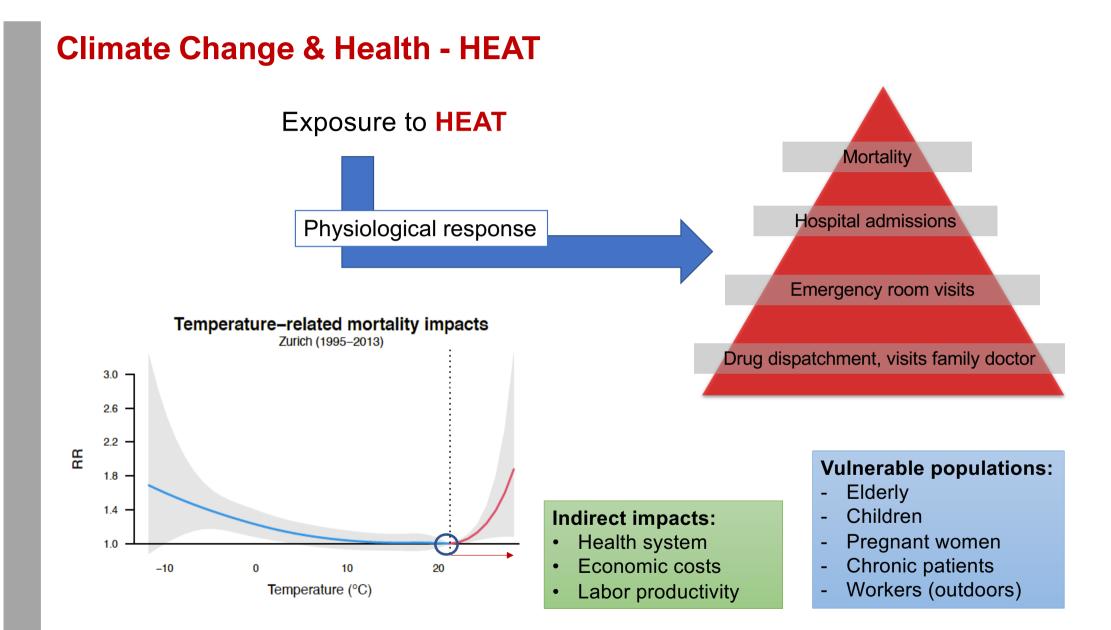
Climate Change & Health



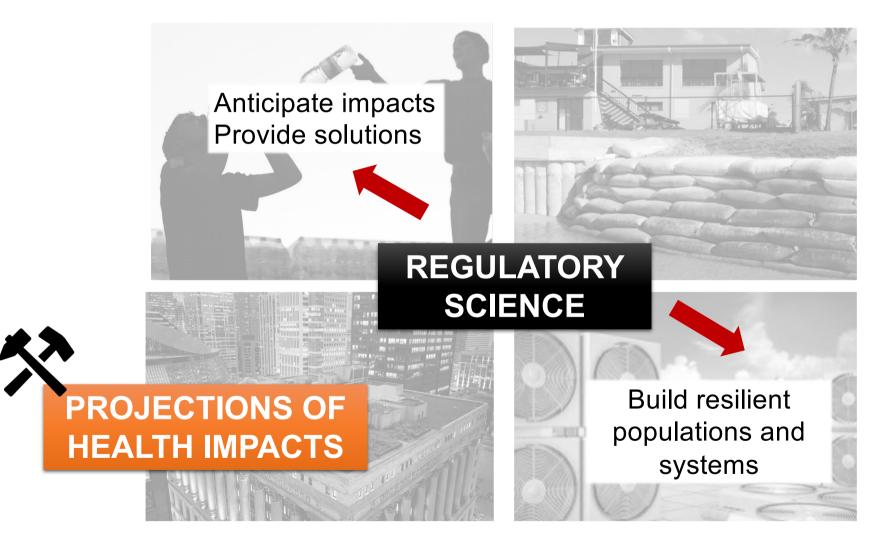






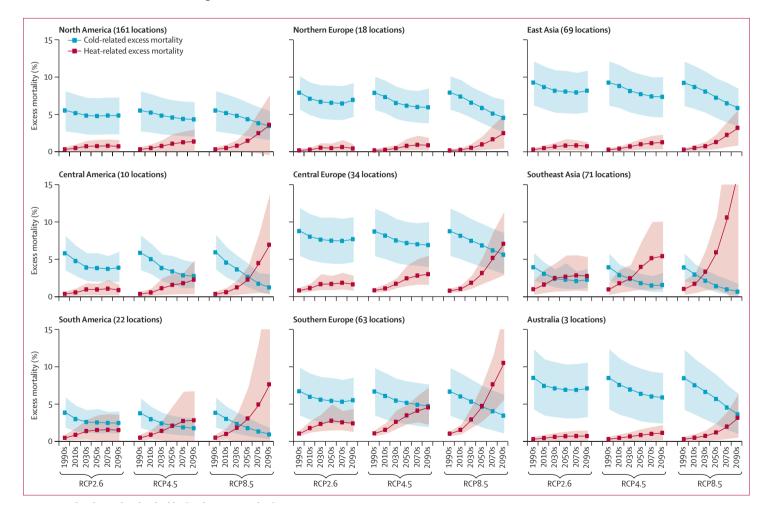


THE ROLE OF PUBLIC HEALTH

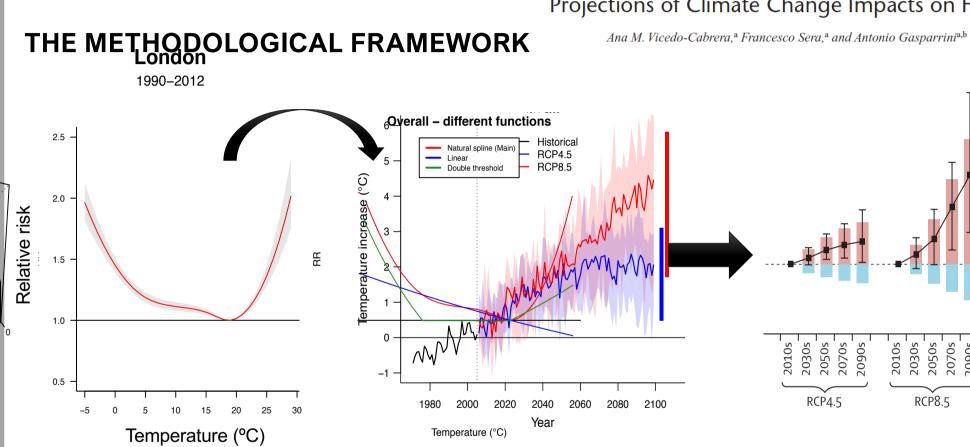


HEALTH IMPACT PROJECTIONS

Temperature-related mortality



Gasparrini et al. 2017



HEALTH IMPACT PROJECTIONS

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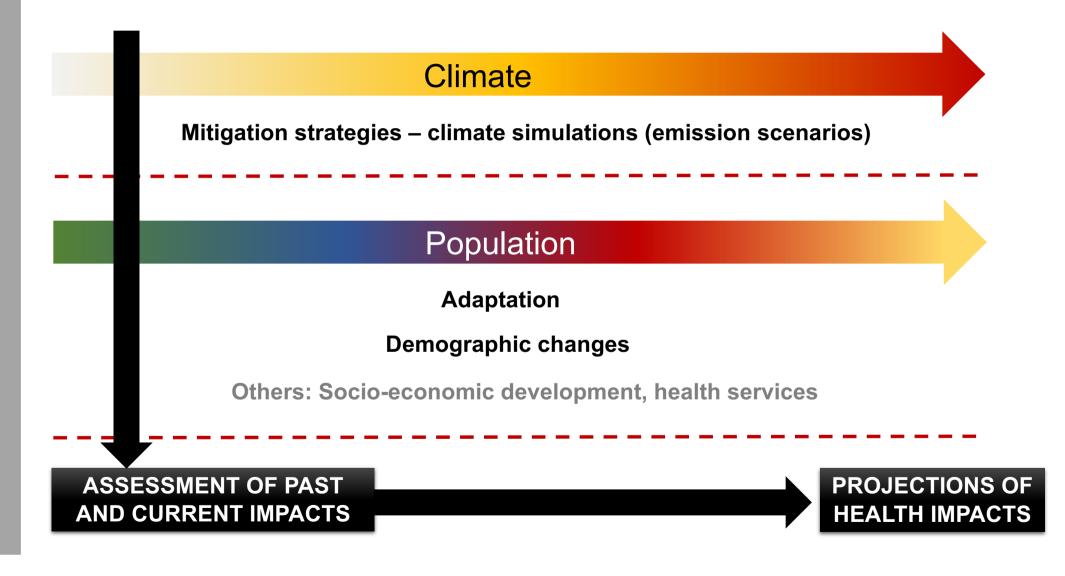
Hands-on Tutorial on a Modeling Framework for Projections of Climate Change Impacts on Health

Vicedo-Cabrera et al. 2019

2050s 2070s

2090s

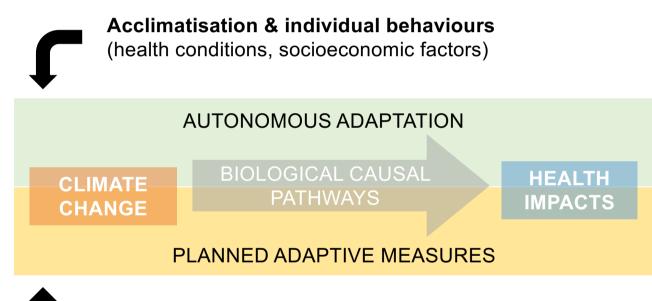
From today to future: HEALTH IMPACT PROJECTIONS



PAST & CURRENT HEALTH IMPACTS

ADAPTATION – DRIVERS?

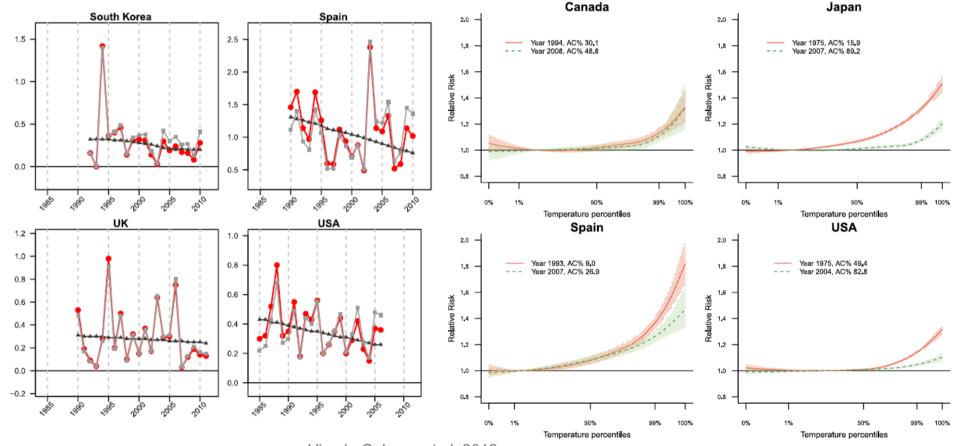
- Complex mechanisms
- Lack of data
- Different patterns across populations



Public health policies (e.g. heat warning systems) Structural interventions (e.g. urban planning)

PAST & CURRENT HEALTH IMPACTS

ADAPTATION

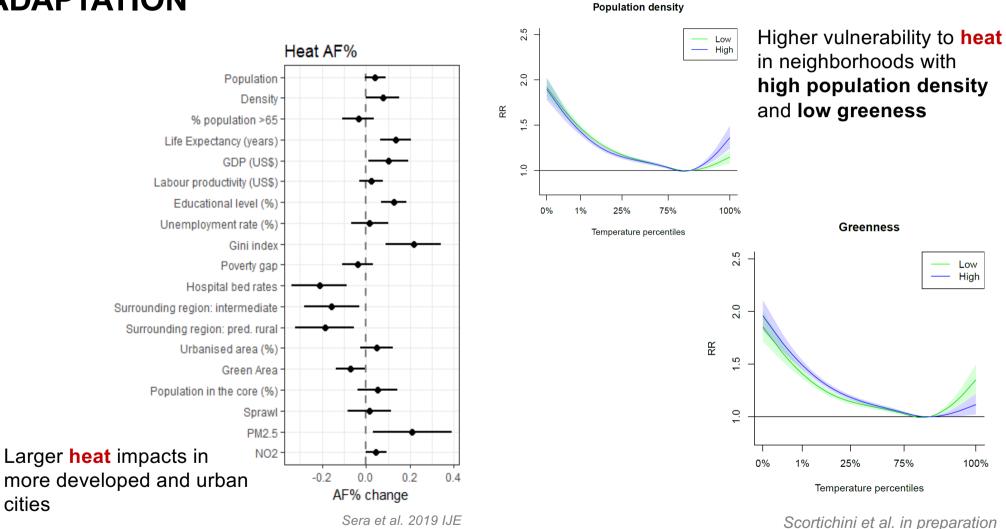


Vicedo-Cabrera et al. 2018

Sera et al. 2020

PAST & CURRENT HEALTH IMPACTS

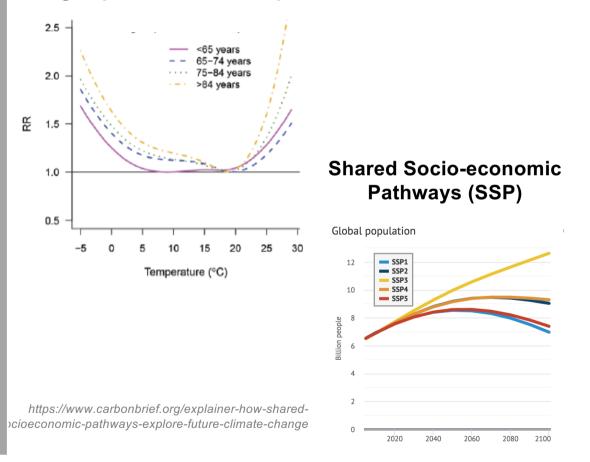
ADAPTATION



ADVANCING ON HEALTH IMPACT PROJECTIONS

Accounting for DEMOGRAPHIC CHANGES

Age-specific relationships



ADVANCING ON HEALTH IMPACT PROJECTIONS

Way forward \rightarrow Additional uncertainties and complexities

What about COLD?

- Direct & indirect mechanisms stay the same in the future?
- Cold-driven infectious diseases (e.g. flu) under climate change scenarios

Potential extensions

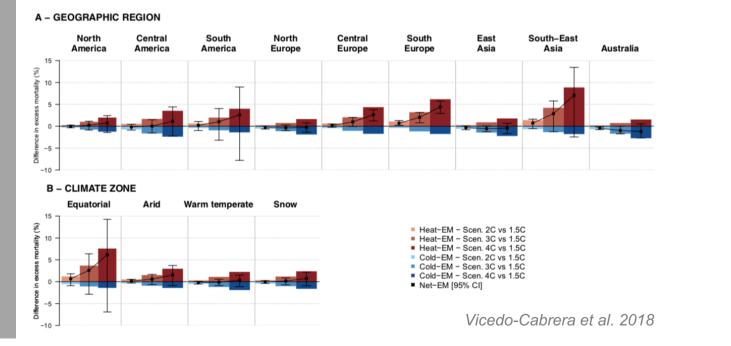
Forecasting health impacts

for heat-health warning

systems

• Public health interventions (vaccination)

Projecting other health impacts (hospitalizations)



Thank you very much



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