Environmental drivers of SARS-CoV2 emergence & transmission

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• Socioeconomic inequalities
• Weak, underfunded health systems
• Scale of climate action needed
Research Goal 1.3
Research needed on health benefits of biodiversity; role of wild fauna, domestic animals and farming practices in pathogen transmission and evolution

Research Goal 2.3
Research needed on interactions between chemicals and microbial agents
HERA-COVID-19 RG1.1 Drivers of SARS-COV2 Emergence

- Contribution of animal/human proximity and behavior
- Influence of land use change, food systems on pathogen emergence
- Interdisciplinary research between health, ecological, and social sciences
RG 1.2 Drivers of SARS-COV2 Spread

- Climate, seasonality
- Aerosols
- Behaviour and virulence in water, soil, waste
- Role of building design, ventilation
- Transport system (local, regional, international)
- Potential for exposure reduction (e.g. PPE)
- Overlap between environmental drivers and socio-economic inequalities
RG 1.3 Improved modelling of virus spread, impact of mitigation, and exit strategies

- Include how environmental factors affect virus survival and spread (e.g. temperature, UV)
- Accounting for exposure reduction measures
- How is immunity modified by environmental conditions and exposures
Latest update: 12 June 2020 - 1.30 PM

Other: Cases on an international conveyance (Japan) (712).
Source: Johns Hopkins University & Medicine.