Short & Long Term Exposure to Wind Turbine Noise (WTN): A Nation Wide Cohort Study (Poulsen et al. 2018 & 2019)

- Cohort: 758,736 (25-84 y)
- Exposure time & level: > 1y year, > 36 dB
- Method: Estimated night-time outdoor and low-frequency indoor WTN, using information on WT type and simulated hourly wind for all Danish dwellings within a radius of 20-WT heights and for 25% of randomly selected dwellings within a radius of 20-to 40-WT heights (reference). Adjusted for individual- and area-level covariates
- Impact on:
  - Cardiovascular events: Yes - when exposed to low frequent noise during night - however very few incidents, thus uncertain
  - Redemption of sleep medication and antidepressants: Yes - among elderly exposed to > 42 dB
  - Redemption of antihypertensive medication: No
  - Risk of diabetes: No
  - Adverse birth outcomes: No
  - Myocardial infarction and stroke: No