

Table S1: Methodological quality checklist**1. Design**

- a. Cohort (4)
- b. Case-control (3)
- c. Cross-sectional (2)
- d. Using aggregated data (1)

2. Timeframe

- a. Reported (0.5)
- b. Unknown (0)

3. Country where the study was carried out

- a. With good working and living conditions AND/OR high socio-economic standard (2)
- b. Difficult conditions AND/OR lower socio-economic standard (1.5)
- c. Very difficult conditions AND/OR very low socioeconomic standard (1)
- d. Unknown (0)

4. Mode of selection

- a. Random AND/OR considerable part OR the whole target population (3)
- b. Non-random OR unknown (0)

5. Response rate

- a. $\geq 80\%$ OR, if not reported, considerable part of the target population (3)
- b. 60–80% (1)
- c. $< 60\%$ OR unknown (0)

6. Final sample size

- a. Completely satisfactory AND/OR justified by power analysis OR total population (3)
- b. Somewhat satisfactory AND no statistical justification (1)
- c. Not satisfactory AND no statistical justification (0)

7. Participants

- a. Clearly described (1)
- b. Ambiguous description OR unknown (0)

8. Representativeness of the sample

- a. Representative of the population/whole population (3)
- b. Somewhat representative (1)
- c. Not representative/unknown (0)

9. Definition and assessment of ischemic heart disease/myocardial infarction

- a. Official WHO diagnostic criteria/official registry/database/records/physician-diagnosed (3)
- b. Self-reported (1)

10. Assessment of noise exposure

- a. Long term personal dosimetry/at-site measurement (3)
- b. Job-exposure matrix/hygienists assessment (2)
- c. Self-report noisiness/vocal effort (1)
- d. Unknown method (0)

11. Biological plausibility for ischemic heart disease/myocardial infarction given the overall noise exposure and the compared noise exposure categories

- a. Plausible (1.5)
- b. Speculative (0.5)
- c. Unplausible/unknown (0)

12. Adjustments for personal covariates

- a. All/almost all of the relevant covariates (age, smoking, dyslipidemia, abdominal obesity, diabetes, history of hypertension, psychosocial factors, unhealthy diet, regular alcohol consumption, irregular physical activity) (5)
- b. Some of the covariates (2)
- c. No adjustments OR none of the above included (0)

13. Adjustments for environmental covariates

- a. Other occupational AND residential risks (eg, air pollution, chemicals, noise, shift work, etc) (4)
- b. Other occupation OR residential risks (2)
- c. No adjustments (0)

14. Effect size calculation for meta-analysis

- a. No transformations AND no data imputation OR transformations not creating bias (3)
- b. Transformations creating bias OR data imputation (1)
- c. Transformations creating bias AND data imputation (0)

15. Additional transformations/imputation to the data AND/OR other source of bias associated with data extraction/interpretation

- a. None (3)
- b. Creating minor bias (1)
- c. Major source of bias (0)