



## **Supporting Information**

### **Supplementary material**

**This appendix was part of the submitted manuscript and has been peer reviewed.  
It is posted as supplied by the authors.**

Appendix to: Cortes-Ramirez J, Michael RN, Toms LM, Haswell M. The public health impacts of mining in Australia. *Med J Aust* 2025; doi: 10.5694/mja2.70005.

## Papers selection methodology

This review used a systematic search of studies published in Embase, PubMed, Embase or Scopus until 01/09/2024. To be eligible, studies had to assess the association of mining activities with health outcomes in the Queensland general population. Review articles were excluded. The search strategy included combinations of the terms: mining, health, morbidity, mortality, disease, Australia, Queensland, New South Wales, Victoria, Western Australia, Tasmania.

### Search strategy, mining:

**Embase:** ('mining'/exp OR 'mining') AND (health:ti,ab,kw OR morbidity:ti,ab,kw OR mortality:ti,ab,kw OR disease:ti,ab,kw) AND (australia:ti,ab,kw OR queensland:ti,ab,kw OR 'new south wales':ti,ab,kw OR victoria:ti,ab,kw OR 'western australia':ti,ab,kw OR tasmania:ti,ab,kw)

**PubMed:** ((mining[MeSH Terms]) AND ((((((australia[Title/Abstract]) OR (queensland[Title/Abstract])) OR ("new south wales"[Title/Abstract])) OR (victoria[Title/Abstract])) OR ("western australia"[Title/Abstract])) OR (tasmania[Title/Abstract]))) AND (((Health[Title/Abstract]) OR (morbidity[Title/Abstract])) OR (mortality[Title/Abstract])) OR (disease[Title/Abstract]))

**Scopus:** ( ( TITLE-ABS-KEY ( mining ) AND NOT TITLE-ABS-KEY ( data AND mining ) ) ) AND ( ( TITLE-ABS-KEY ( health ) OR TITLE-ABS-KEY ( morbidity ) OR TITLE-ABS-KEY ( mortality ) OR TITLE-ABS-KEY ( disease ) ) ) AND ( ( TITLE-ABS-KEY ( australia ) OR TITLE-ABS-KEY ( queensland ) OR TITLE-ABS-KEY ( "new south wales" ) OR TITLE-ABS-KEY ( victoria ) OR TITLE-ABS-KEY ( "western australia" ) OR TITLE-ABS-KEY ( tasmania ) ) ) )

### Search strategy, coal seam gas:

**Embase:** ('coal seam gas'/exp OR 'coal seam gas' OR 'fracking'/exp OR 'fracking') AND (health:ti,ab,kw OR morbidity:ti,ab,kw OR mortality:ti,ab,kw OR disease:ti,ab,kw) AND (australia:ti,ab,kw OR queensland:ti,ab,kw OR 'new south wales':ti,ab,kw OR victoria:ti,ab,kw OR 'western australia':ti,ab,kw OR tasmania:ti,ab,kw)

**PubMed:** (((((((australia[Title/Abstract]) OR (queensland[Title/Abstract])) OR ("new south wales"[Title/Abstract])) OR (victoria[Title/Abstract])) OR ("western australia"[Title/Abstract])) OR (tasmania[Title/Abstract])) AND (((Health[Title/Abstract]) OR (morbidity[Title/Abstract])) OR (mortality[Title/Abstract])) OR (disease[Title/Abstract]))) AND (("coal seam gas"[MeSH Terms]) OR (fracking[MeSH Terms]))

**Scopus:** (( TITLE-ABS-KEY ( health ) OR TITLE-ABS-KEY ( morbidity ) OR TITLE-ABS-KEY ( mortality ) OR TITLE-ABS-KEY ( disease ) ) ) AND (( TITLE-ABS-KEY ( australia ) OR TITLE-ABS-KEY ( queensland ) OR TITLE-ABS-KEY ( "new south wales" ) OR TITLE-ABS-KEY ( victoria ) OR TITLE-ABS-KEY ( "western australia" ) OR TITLE-ABS-KEY ( tasmania ) ) ) ) AND (( TITLE-ABS-KEY ( "coal seam gas" ) OR TITLE-ABS-KEY ( fracking ) ) )

## Results

1. Mining: A total of 1246 articles were identified in the search strategy. After exclusion of duplicates and screening of titles and abstracts, 539 articles were eligible for review from which 29 articles were selected (Figure S1).

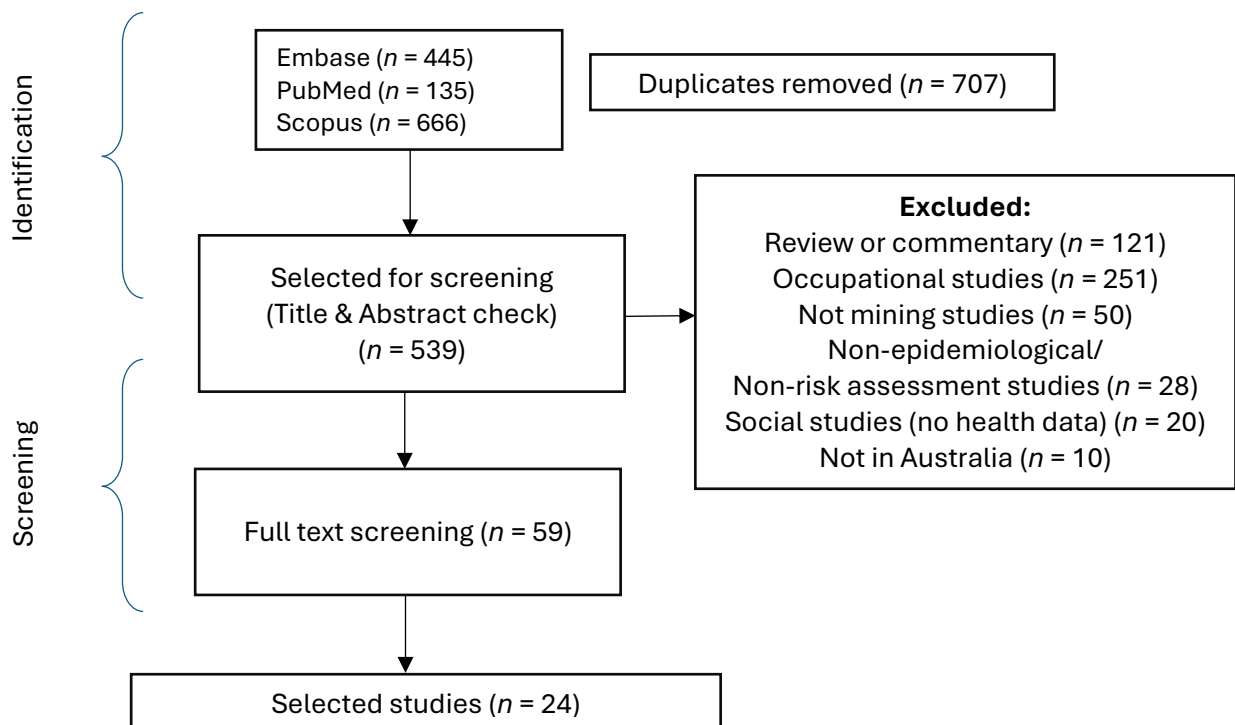


Figure S1. Flowchart of the search strategy for the mining studies.

2. Coal seam gas: A total of 61 articles were identified in the search strategy. After exclusion of duplicates and screening of titles and abstracts, 35 articles were eligible with 4 articles being selected (Figure S2).

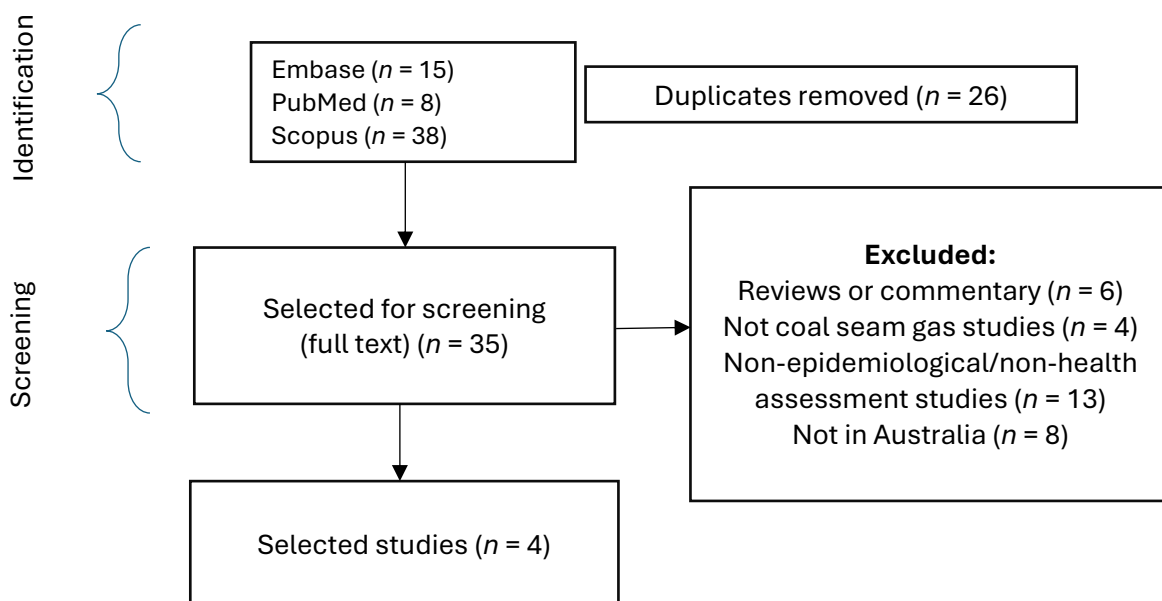


Figure S2. Flowchart of the search strategy for the coal seam gas studies.