

50649 references imported for screening

28675 duplicates removed

21974 studies screened against title and abstract

19417 studies excluded

2557 studies assessed for full-text eligibility

2339 studies excluded

- 672 Systematic review without meta-analysis
- 602 Not a systematic review
- 365 Wrong exposure
- 193 Wrong population
- 160 Not a full-text
- 159 Doesn't examine exposure-outcome relationship
- 147 Not published in English
- 38 Duplicated reference
- 3 Full-text article could not be retrieved

218 met inclusion criteria

115 studies removed

- 49 All effects missing key information (estimate, N)
- 66 Larger study available

103 studies contributed unique effects