Appendix 1

Table S1. Search strategy for studies aimed to evaluate the association between dietary acrylamide and site-specific cancer. Details are provided below for PubMed, Web of Science and Scopus databases, though with database-specific adjustments accommodated to the requirements of each database as follows.

Review questions

- 1) In the pooled analysis of all available and eligible studies, is dietary acrylamide exposure associated with risk of site-specific cancer?
- 2) In the pooled analysis of all available and eligible studies, what is the shape of the dose-response relationship between dietary acrylamide exposure and the risk of site-specific cancer?

The search was conducted on March 7, 2022.

No time limit defined. Language: English

Population: Adults or older adults (18 and over)

Intervention/Exposure: Higher levels of intake to dietary acrylamide

Comparator: Lower levels of intake to dietary acrylamide Outcomes: Risk of cancer incidence (RR; HR or OR)

Study design: Cohort studies, case-cohort and case-control studies

Exclusion criteria: breast, endometrial and ovarian carcinoma risk

Database	Searches
PubMed	((acrylamides[MeSH Terms]) OR (acrylamide*[Title/Abstract])) AND
	(((((((Neoplasms[MeSH Terms]) OR (Neoplasia*[Title/Abstract])) OR
	(Neoplasm*[Title/Abstract])) OR (Tumor*[Title/Abstract])) OR
	(Cancer*[Title/Abstract])) OR (Malignanc*[Title/Abstract])) AND
	((Risk[MeSH Terms]) OR (Risk*[Title/Abstract])))
Web of	(TS=(Neoplasia*) OR TS=(Neoplasm*) OR TS=(Tumor*) OR TS=(Cancer*)
Science	OR TS=(Malignanc*)) AND TS=(risk*) AND TS=(acrylamide*)
Scopus	(TITLE-ABS-KEY (neoplasia*) OR TITLE-ABS-KEY (neoplasm*) OR
	TITLE-ABS-KEY (tumor*) OR TITLE-ABS-KEY (cancer*) OR
	TITLE-ABS-KEY (malignanc*)) AND TITLE-ABS-KEY (risk*) AND
	TITLE-ABS-KEY (acrylamide*)

Appendix 2

Figure S1. Forest plot of dietary acrylamide exposure and risk of oral cavity cancer. CI: confidence interval; RR: relative risk.

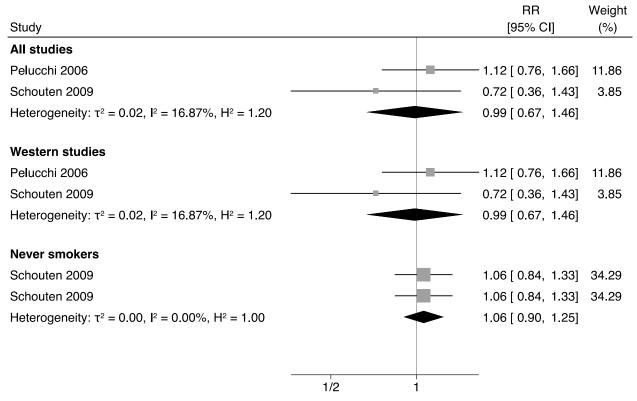
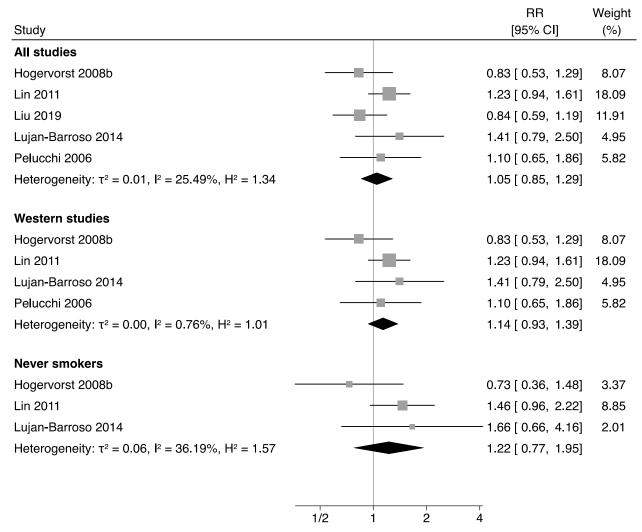


Figure S2. Forest plot and funnel plot of dietary acrylamide exposure and risk of esophageal cancer. CI: confidence interval; RR: relative risk; SE: standard error.



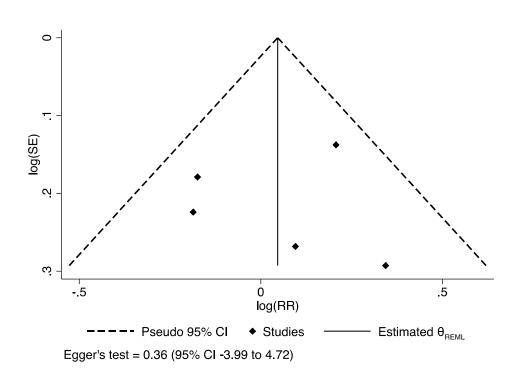


Figure S3. Forest plot of dietary acrylamide exposure and risk of stomach cancer. CI: confidence interval; RR: relative risk.

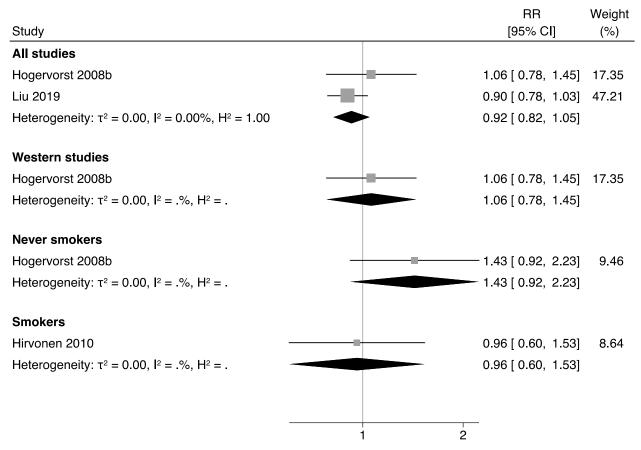
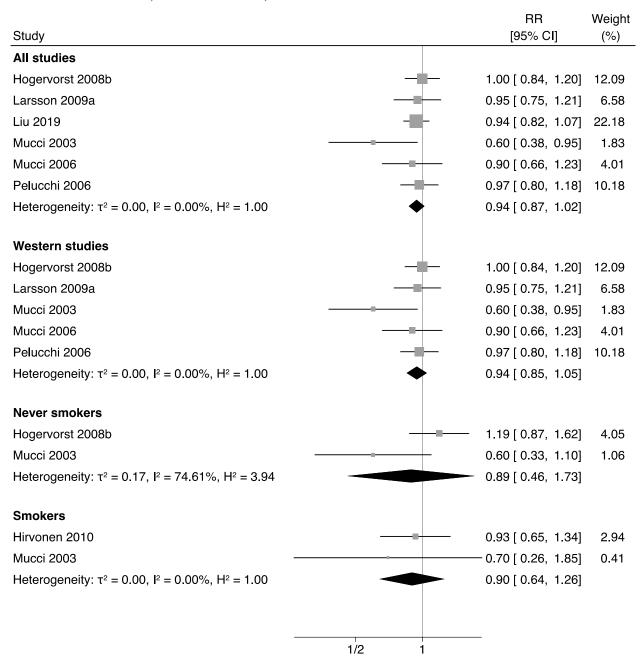


Figure S4. Forest plot and funnel plot of dietary acrylamide exposure and risk of colorectal cancer. CI: confidence interval; RR: relative risk; SE: standard error.



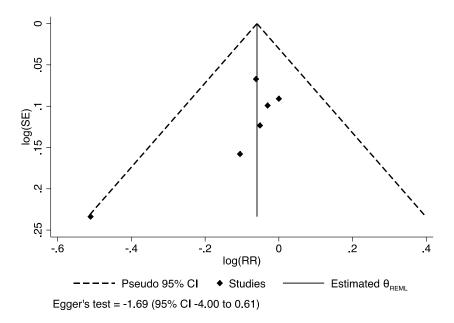


Figure S5. Forest plot of dietary acrylamide exposure and risk of colon cancer. CI: confidence interval; RR: relative risk.

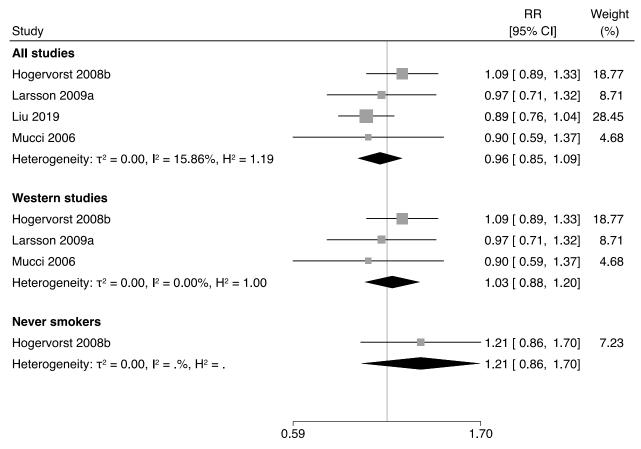


Figure S6. Forest plot of dietary acrylamide exposure and risk of rectal cancer. CI: confidence interval; RR: relative risk.

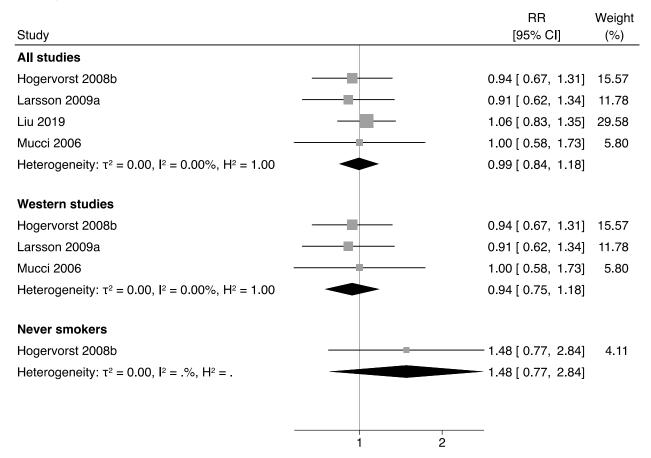
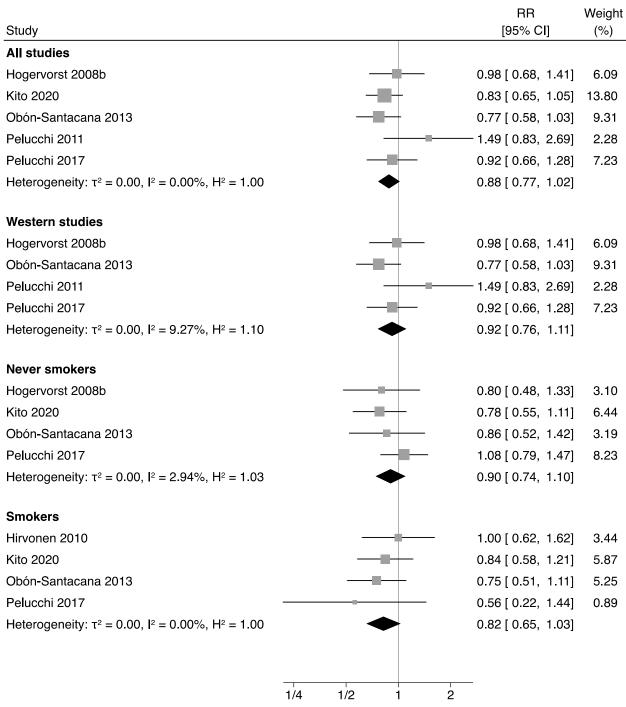


Figure S7. Forest plot and funnel plot of dietary acrylamide exposure and risk of pancreatic cancer. CI: confidence interval; RR: relative risk; SE: standard error.



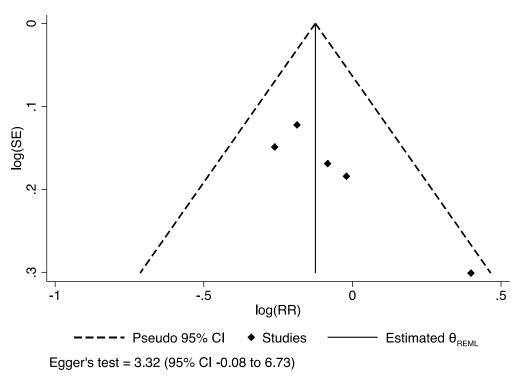


Figure S8. Forest plot of dietary acrylamide exposure and risk of laryngeal cancer. CI: confidence interval; RR: relative risk.

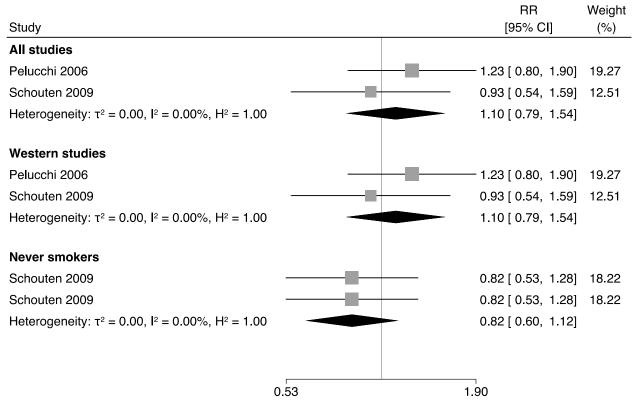


Figure S9. Forest plot of dietary acrylamide exposure and risk of lung cancer. CI: confidence interval; RR: relative risk.

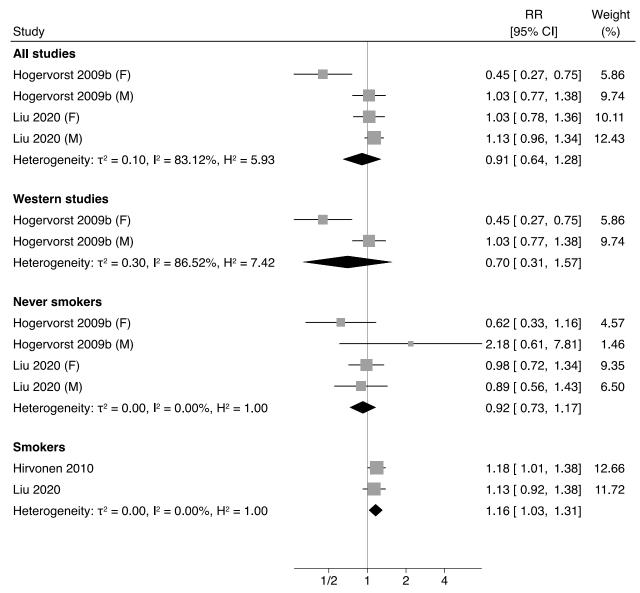


Figure S10. Forest plot of dietary acrylamide exposure and risk of bladder cancer. CI: confidence interval; RR: relative risk.

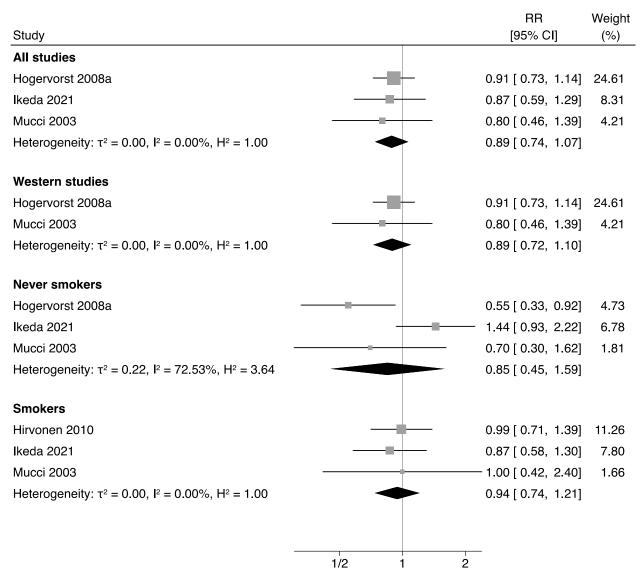
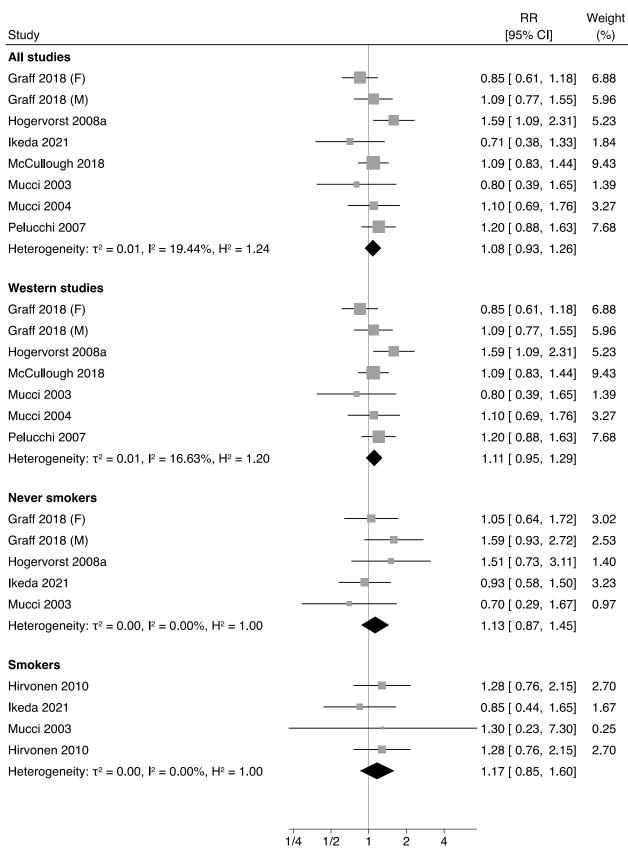


Figure S11. Forest plot and funnel plot of dietary acrylamide exposure and risk of renal cancer. CI: confidence interval; RR: relative risk; SE: standard error.



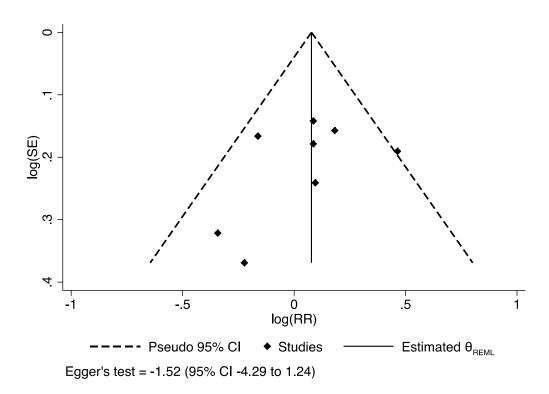
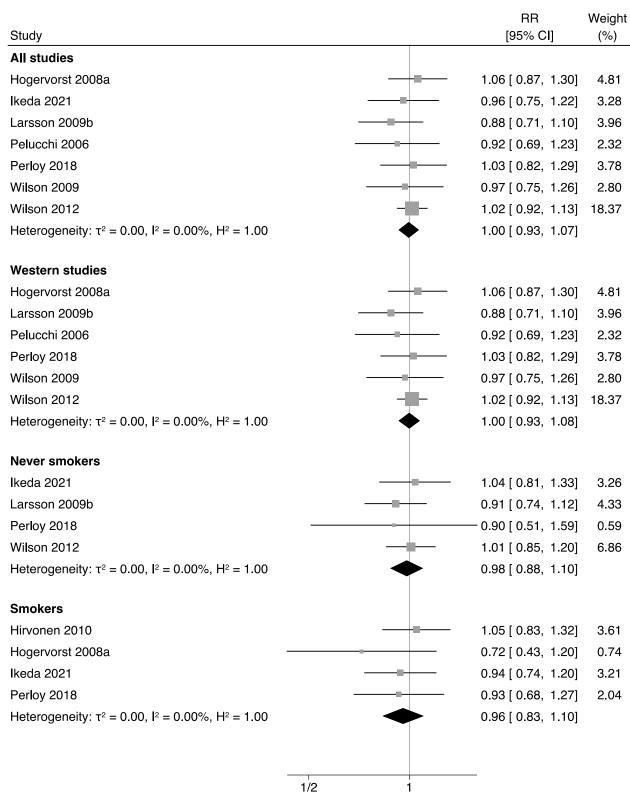


Figure S12. Forest plot and funnel plot of dietary acrylamide exposure and risk of prostatic cancer. CI: confidence interval; RR: relative risk; SE: standard error.



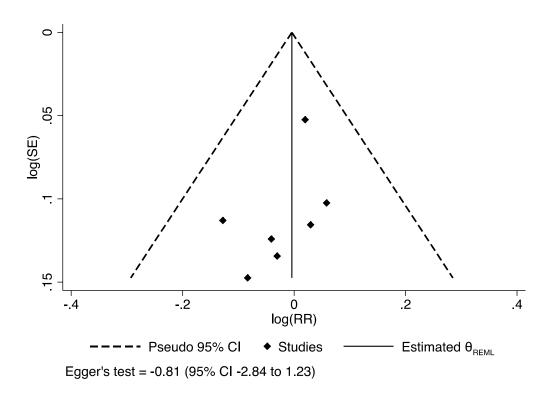


Figure S13. Forest plot of dietary acrylamide exposure and risk of lymphoma. CI: confidence interval; RR: relative risk.

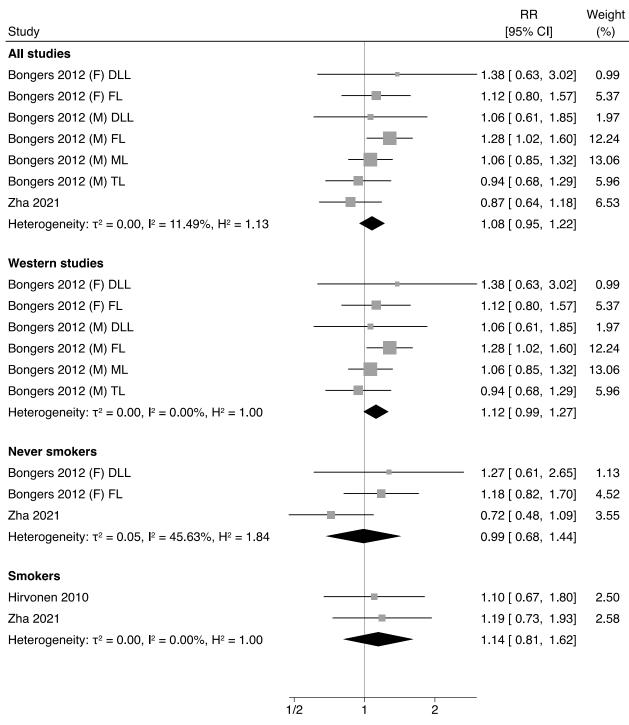


Figure S14. Forest plot of dietary acrylamide exposure and risk of multiple myeloma. CI: confidence interval; RR: relative risk.

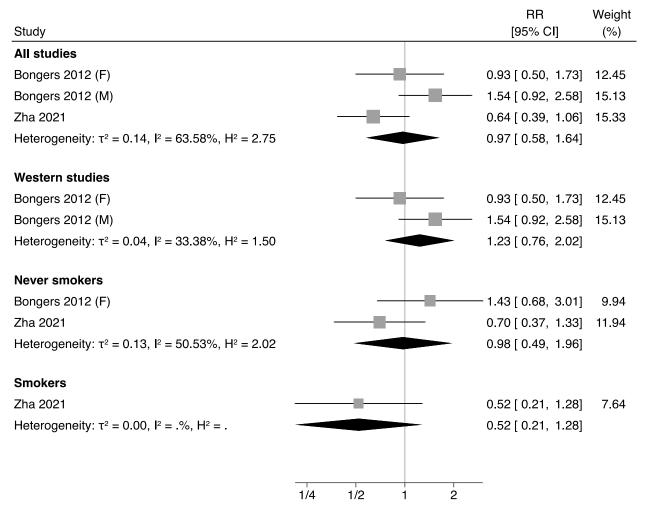


Figure S15. Forest plot of dietary acrylamide exposure and risk of melanoma. CI: confidence interval; RR: relative risk.

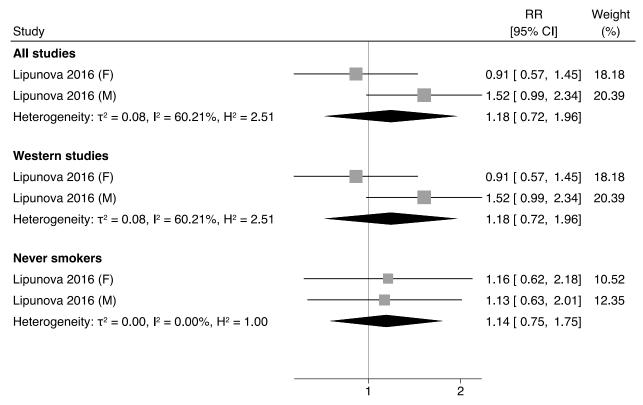
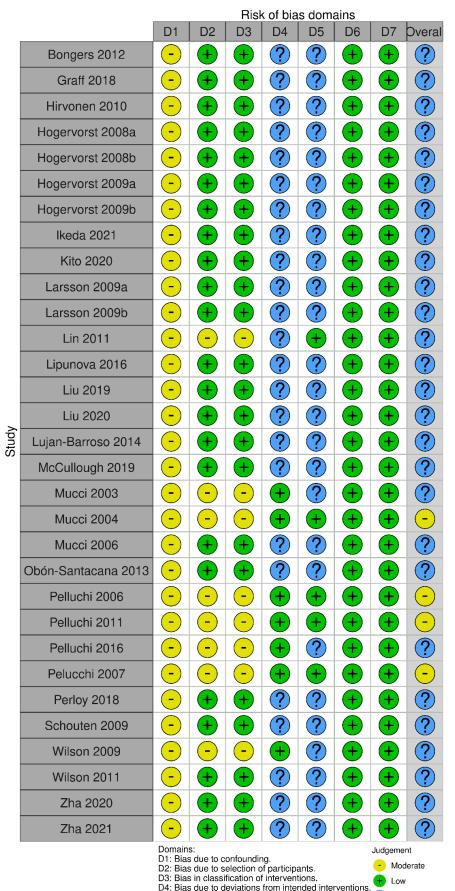


Figure S16. Results of the risk of bias assessment, using the ROBINS-I. Risk of bias domains by studies included.



D5: Bias due to missing data.
D6: Bias in measurement of outcomes.
D7: Bias in selection of the reported result.

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No information

Figure S17. Results of the risk of bias assessment, using the ROBINS-I. Overall graphical representation of risk of bias by domains

