

Literature search strategy and results from the Library

Grillet mat og stekemutagener

Kontaktperson: Helen Engelstad Kvalem
Søk: Trude Anine Muggerud
Fagfelle: Bente Foss
Kommentar: Søk etter systematiske oversikter, avgrenset til 2006-2023, og norsk, dansk, svensk, engelsk og tysk.
Dublettsjekk i EndNote: Før dublettkontroll: 1190
 Etter dublettkontroll: 697

Database: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Daily and Versions(R) <1946 to February 01, 2023>

Dato: 02.02.2023

Antall treff: 312

| | | |
|----|--|---------|
| 1 | Hot temperature/ or Maillard reaction/ or (((hot or high) adj temperature?) or "cooking method?" or "thermal process*" or "heat process*" or Maillard or glycation or "food browning?" or "browning reaction?" or doneness or "meat dripping?" or barbequ* or barbequ* or BBQ or grill* or bonfire or charcoal? or charred or (open adj (flame? or pit?)) or burn* or sear or searing or broil or broiling or fry or frying or fried or "air fryer" or airfryer or rotisserie).tw,kf. | 341193 |
| 2 | Amines/ or Heterocyclic compounds/ or Polycyclic Aromatic Hydrocarbons/ or exp Acrylamides/ or exp Furans/ or exp Nitrosamines/ or ("process* induced contaminant?" or "process* contaminant?" or "Polycyclic Aromatic Hydrocarbon?" or "polyaromatic hydrocarbon?" or PAH? or "Heterocyclic amine?" or "aminoheterocyclic compound?" or Acrylamide? or Furan? or furfuran? or Nitrosamin* or ("n nitrosoalkylamine" or nitrosamino) adj derivative?) or nitrosamide? or nitrosoamine? or "Glycerol derived process contaminant?" or "cooking related mutagen?" or "mutagen index").tw,kf. | 173248 |
| 3 | 1 or 2 | 508302 |
| 4 | exp Fishes/ or Seafood/ or Shellfish/ or exp Meat/ or Cheese/ or Bread/ or exp Vegetables/ or Salads/ or Diet, Vegan/ or Diet, Vegetarian/ or Fruit/ or (food? or dish* or seafood or shellfish* or prawn? or shrimp? or scallop? or lobster? or crab? or crayfish* or fish* or cod or salmon or trout or mackerel or tuna or halibut or flounder or haddock or saithe or herring or sardine? or anchov* or (fish adj (product? or burger? or cake?)) or meat? or pork? or veal or beef or lamb or mutton or chicken or turkey or poultry or venison or burger? or sausage? or hotdog? or "hot dog?" or cheese? or bread? or vegetable? or fruit? or jackfruit? or tofu or seitan or ((vegan or vegetarian or plantbased or "plant based" or beyond) adj (burger? or patty or patties or meat? or sausage? or hotdog? or "hot dog?" or product?)).tw,kf. | 1387855 |
| 5 | 3 and 4 | 43917 |
| 6 | limit 5 to "reviews (maximizes specificity)" | 254 |
| 7 | Meta-Analysis/ or Network Meta-Analysis/ or ((systematic* adj2 review*) or metaanal* or "meta anal*" or (review and ((structured or database* or systematic*) adj2 search*)) or "integrative review*" or (evidence adj2 review*)).tw,kf,bt. | 488535 |
| 8 | 6 or (5 and 7) | 345 |
| 9 | limit 8 to (danish or english or german or interlingua or multilingual or norwegian or swedish) | 342 |
| 10 | limit 9 to yr="2006 -Current" | 312 |

Database: Embase <1974 to 2023 February 01>

Dato: 02.02.2023

Antall treff: 258

| | | |
|----|--|---------|
| 1 | High temperature/ or Glycation/ or (((hot or high) adj temperature?) or "cooking method?" or "thermal process*" or "heat process*" or Maillard or glycation or "food browning?" or "browning reaction?" or doneness or "meat dripping?" or barbecu* or barbequ* or BBQ or grill* or bonfire or charcoal? or charred or (open adj (flame? or pit?)) or burn* or sear or searing or broil or broiling or fry or frying or fried or "air fryer" or airfryer or rotisserie).tw,kf. | 279189 |
| 2 | Heterocyclic amine/ or Polycyclic aromatic hydrocarbon/ or Acrylamide/ or Furan/ or Nitrosamine/ or ("process* induced contaminant?" or "process* contaminant?" or "Polycyclic Aromatic Hydrocarbon?" or "polyaromatic hydrocarbon?" or PAH? or "Heterocyclic amine?" or "aminoheterocyclic compound?" or Acrylamide? or Furan? or furfuran? or Nitrosamin* or ("n nitrosoalkylamine" or nitrosamino) adj derivative?) or nitrosamide? or nitrosoamine? or "Glycerol derived process contaminant?" or "cooking related mutagen?" or "mutagen index").tw,kf. | 114549 |
| 3 | 1 or 2 | 388455 |
| 4 | exp Fish/ or Seafood/ or Shellfish/ or exp Meat/ or Cheese/ or Bread/ or exp Vegetable/ or Salad/ or Vegan diet/ or Vegetarian diet/ or exp Fruit/ or exp Processed food/ or Whole food/ or (food? or dish* or seafood or shellfish* or prawn? or shrimp? or scallop? or lobster? or crab? or crayfish* or fish* or cod or salmon or trout or mackerel or tuna or halibut or flounder or haddock or saithe or herring or sardine? or anchov* or (fish adj (product? or burger? or cake?)) or meat? or pork? or veal or beef or lamb or mutton or chicken or turkey or poultry or venison or burger? or sausage? or hotdog? or "hot dog?" or cheese? or bread? or vegetable? or fruit? or jackfruit? or tofu or seitan or ((vegan or vegetarian or plantbased or "plant based" or beyond) adj (burger? or patty or patties or meat? or sausage? or hotdog? or "hot dog?" or product?)) or ("process* induced contaminant?" or "process* contaminant?").tw,kf. | 1814165 |
| 5 | 3 and 4 | 41972 |
| 6 | limit 5 to "reviews (maximizes specificity)" | 267 |
| 7 | exp Meta-Analysis/ or "systematic review"/ or ((systematic* adj2 review*) or metaanal* or "meta anal*" or (review and ((structured or database* or systematic*) adj2 search*)) or "integrative review*" or (evidence adj2 review*)).tw,kf. | 714038 |
| 8 | 6 or (5 and 7) | 450 |
| 9 | limit 8 to (danish or english or german or norwegian or polyglot or swedish) | 438 |
| 10 | limit 9 to yr="2006 -Current" | 421 |
| 11 | limit 10 to embase | 258 |

Database: Web of Science

Dato: 02.02.2023

Antall treff: 457

| | | |
|----|---|-----------|
| #9 | #5 and #6 Limit to publication years 2006-01-01 to 2023-02-02 and Danish or English or German or Norwegian or Swedish (Languages) | 457 |
| #8 | #5 AND #6 Limit to publication years 2006-01-01 to 2023-02-02 | 464 |
| #7 | #5 AND #6 | 481 |
| #6 | (TS= (("systematic*" NEAR/1 "review*") or ("review" and ((("structured" or "database*" or "systematic*") NEAR/1 "search*")) or "integrative review*" or ("evidence" NEAR/1 "review*")) OR TI= ("metaanal*" or "meta anal*") OR AB= ("metaanal*" or "meta anal*"))) | 533,679 |
| #5 | #3 AND #4 | 71,753 |
| #4 | TS= ("food\$" OR "dish*" OR "seafood" OR "shellfish*" OR "prawn\$" OR "shrimp\$" OR "scallop\$" OR "lobster\$" OR "crab\$" OR "crayfish*" OR "fish*" OR "cod" OR "salmon" OR "trout" OR "mackerel" OR "tuna" OR "halibut" OR "flounder" OR "haddock" | 2,392,689 |

| | | |
|----|---|---------|
| | OR "saithe" OR "herring" OR "sardine\$" OR "anchov*" OR ("fish" NEAR/0 ("product\$" OR "burger\$" OR "cake\$")) OR "meat\$" OR "pork\$" OR "veal" OR "beef" OR "lamb" OR "mutton" OR "chicken" OR "turkey" OR "poultry" OR "venison" OR "burger\$" OR "sausage\$" OR "hotdog\$" OR "hot dog\$" OR "cheese\$" OR "bread\$" OR "vegetable\$" OR "fruit\$" OR "jackfruit\$" OR "tofu" OR "seitan" OR (("vegan" OR "vegetarian" OR "plantbased" OR "plant based" OR "beyond") NEAR/0 ("burger\$" OR "patty" OR "patties" OR "meat\$" OR "sausage\$" OR "hotdog\$" OR "hot dog\$" OR "product\$")))) | |
| #3 | #1 or #2 | 953,148 |
| #2 | TS=("process* induced contaminant\$" OR "process* contaminant\$" OR "Polycyclic Aromatic Hydrocarbon\$" OR "polyaromatic hydrocarbon\$" OR "PAH\$" OR "Heterocyclic amine\$" OR "aminoheterocyclic compound\$" OR "Acrylamide\$" OR "Furan\$" OR "furfuran\$" OR "Nitrosamin*" OR ("n nitrosoalkylamine" OR "nitrosamino") NEAR/0 "derivative\$") OR "nitrosamide\$" OR "nitrosoamine\$" OR "Glycerol derived process contaminant\$" OR "cooking related mutagen\$" OR "mutagen index") | 157,573 |
| #1 | TS=(((hot or high) NEAR/0 temperature\$) or "cooking method\$" OR "thermal process*" OR "heat process*" OR Maillard OR glycation OR "food browning\$" OR "browning reaction\$" OR doneness OR "meat dripping\$" OR "barbecu*" OR "barbequ*" OR "BBQ" OR "grill*" OR "bonfire" OR "charcoal\$" OR "charred" OR ("open" NEAR/0 ("flame\$" OR "pit\$")) OR "burn*" OR "sear" OR "searing" OR "broil" OR "broiling" OR "fry" OR "frying" OR "fried" OR "air fryer" OR airfryer OR "rotisserie")) | 806,414 |

Database: Cochrane Database of Systematic Reviews Issue 2 of 12, February 2023

Dato: 02.02.2023

Antall treff: 30

| | | |
|----|---|-------|
| #1 | [mh ^"Hot temperature"] | 2210 |
| #2 | [mh ^"Maillard reaction"] | 14 |
| #3 | (((hot or high) NEXT temperature?) or "cooking method?" or "thermal process*" or "heat process*" or Maillard or glycation or "food browning?" or "browning reaction?" doneness or "meat dripping?" or barbecu* or barbequ* or BBQ or grill* or bonfire or charcoal? or charred or (open NEXT (flame? Or pit?)) or burn* or sear or searing or broil or broiling or fry or frying or fried or "air fryer" or airfryer or rotisserie):ti,ab | 13305 |
| #4 | #1 or #2 or #3 | 15425 |
| #5 | [mh ^"Amines"] | 740 |
| #6 | [mh ^"Heterocyclic compounds"] | 113 |
| #7 | [mh ^"Polycyclic aromatic hydrocarbons"] | 28 |

| | | |
|-----|--|-------|
| #8 | [mh "Acrylamides"] | 74 |
| #9 | [mh "Furans"] | 2701 |
| #10 | [mh "Nitrosamines"] | 39 |
| #11 | ((process* NEXT "induced contaminant") or (process* NEXT "induced contaminants") or (process* NEXT contaminant?) or ("Polycyclic Aromatic" NEXT Hydrocarbon?) or (polyaromatic NEXT hydrocarbon?) or PAH? or (Heterocyclic NEXT amine?) or (aminoheterocyclic NEXT compound?) or Acrylamide? or Furan? or furfuran? or Nitrosamin* or (("nitrosoalkylamine" or nitrosamino) NEXT derivative?) or nitrosamide? or nitrosoamine? or ("Glycerol derived process" NEXT contaminant?) or ("cooking related" NEXT mutagen?) or "mutagen index"):ti,ab | 1750 |
| #12 | {OR #5-#11} | 5380 |
| #13 | #4 or #12 | 20742 |
| #14 | [mh ^"Fishes"] | 258 |
| #15 | [mh "Seafood"] | 243 |
| #16 | [mh "Shellfish"] | 12 |
| #17 | [mh ^"Meat"] | 527 |
| #18 | [mh "Cheese"] | 106 |
| #19 | [mh "Bread"] | 409 |
| #20 | [mh ^"Vegetables"] | 1547 |
| #21 | [mh "Salads"] | 3 |
| #22 | [mh "Diet, Vegan"] | 36 |
| #23 | [mh "Diet, Vegetarian"] | 273 |
| #24 | [mh "Fruit"] | 3173 |
| #25 | (food? or dish* or seafood or shellfish* or prawn? or shrimp? or scallop? or lobster? or crab? or crayfish* or fish* or cod or salmon or trout or mackerel or tuna or halibut or flounder or haddock or saithe or herring or sardine? or anchov* or (fish NEXT (product? or burger? or cake?)) or meat? or pork? or veal or beef or lamb or mutton or chicken or turkey or poultry or venison or burger? or sausage? or hotdog? or (hot NEXT dog?) or cheese? or bread? or vegetable? or fruit? or jackfruit? or tofu or seitan or ((vegan or vegetarian or plantbased or "plant based" or beyond) NEXT (burger? or patty or patties or meat? or sausage? or hotdog? or (hot NEXT dog?) or product?))):ti,ab | 74839 |
| #26 | {OR #14-#25} | 76184 |
| #27 | #13 and #26 | 1314 |
| #28 | #13 and #26 with Cochrane Library publication date Between Jan 2006 and Jan 2023 | 1152 |
| #29 | #13 and #26 with Cochrane Library publication date Between Jan 2006 and Jan 2023, Limit to Cochrane Database of Systematic Reviews | 30 |

Database: Epistemonikos

Dato: 02.02.2023

Kommentar: Ikke mulig å avgrense på språk

Antall treff: 133 treff uten interne dubletter

("high temperature" or "hot temperature" or "cooking method" or "cooking methods" or "thermal process" or "thermal processes" or "thermal processing" or "heat process" or "heat processes" or "heat processing" or Maillard or glycation or "browning reaction" or doneness or barbecue or barbecues or barbecuing or barbeque or barbeques or barbecuing or BBQ or grill or grilling or bonfire or charcoal or charcoals or charred or "open flame" or "open flames" or "open pit" or burn or burning or sear or searing or broil or broiling or fry or "air fryer" or airfryer or frying or fried or rotisserie) AND (food or seafood or shellfish or prawn or prawns or shrimp or shrimps or scallop or scallops or crab or crayfish or fish or meat or meats or pork or veal or beef or lamb or mutton or chicken or turkey or poultry or venison or burger or burgers or sausage or sausages or "hot dog" or "hot dogs" or cheese or bread or vegetable or vegetables or fruit or fruits or jackfruit or tofu or seitan or "vegetarian burger")

– Avgrenset til 2006 – 2023

= 106 treff (Systematic review, Structured summary og Broad synthesis)

("processing contaminant" or "processing contaminants" or "process contaminants" or "Polycyclic Aromatic Hydrocarbon" or "Polycyclic Aromatic Hydrocarbons" or "polyaromatic hydrocarbon" or "polyaromatic hydrocarbons" or "Heterocyclic amine" or "heterocyclic amines" or Acrylamide or Acrylamides or Furan or furans or Nitrosamine or nitrosamines or nitrosoamine) AND (food or seafood or shellfish or prawn or prawns or shrimp or shrimps or scallop or scallops or crab or crayfish or fish or meat or meats or pork or veal or beef or lamb or mutton or chicken or turkey or poultry or venison or burger or burgers or sausage or sausages or "hot dog" or "hot dogs" or cheese or bread or vegetable or vegetables or fruit or fruits or jackfruit or tofu or seitan or "vegetarian burger")

– Avgrenset til 2006 – 2023

= 37 treff (Systematic review, Structured summary og Broad synthesis)

Articles, unique hits, n=697

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Articles left after screening of abstracts using the exclusion criteria

Anka n=24

{Abedini, 2022 #1;Abid, 2014 #8;Additives, 2017 #18;Al-Zalabani, 2016 #3;Alexander, 2011 #11;Alexander, 2015 #17;Aune, 2013 #20;Aveta, 2022 #14;Aykan, 2015 #23;Baghurst, 2007 #12;Bandera, 2007 #15;Barone, 2016 #16;Brinkman, 2008 #2;Bylsma, 2016 #7;Cahill, 2014 #6;Carroll, 2022 #19;Chan, 2013 #22;Chiavarini, 2017 #13;Clarke, 2016 #24;Crippa, 2018 #21;Crowe, 2019 #9;Cui, 2021 #5;de Medeiros, 2022 #10;Defago, 2014 #4}

Espen n=31

{Duan, 2021 #31;Einolghozati, 2022 #24;El Asri, 2020 #23;Farvid, 2018 #10;Feng, 2022 #14;Feskens, 2013 #30;Forte, 2008 #28;Gadiraju, 2015 #21;Gamboa-Loira, 2022 #16;Ghaffari, 2019 #22;Ghorbani, 2020 #4;Gnagnarella, 2018 #27;Graff, 2018 #19;Grosso, 2022 #15;Guo, 2015 #1;Heidarzadeh-Esfahani, 2021 #17;Hogervorst, 2022 #29;Huang, 2022 #7;Huang, 2021 #9;Humans, 2018 #3;Hur, 2019 #11;Iko Afe, 2021 #18;Jakszyn, 2006 #8;Johnson, 2017 #25;Kalteh, #12;Kotemori, 2018 #26;Krittanawong, 2021 #5;Langevin, 2009 #20;Le, 2018 #6;Le, 2016 #2;Lee, 2012 #13}

Jan n=20

{Lin, 2016 #1;Lippi, 2015 #2;Lippi, 2015 #3;Martinez Gongora, 2019 #4;Morales, 2020 #5;Ofori, 2020 #6;Ollberding, 2012 #7;Pelucchi, 2015 #8;Pelucchi, 2011 #9;Pericleous, 2013 #10;Pericleous, 2014 #11;Pierre, 2019 #12;Qin, 2022 #13;Qin, 2021 #14;Quan, 2022 #15;Quan, 2022 #16;Reng, 2022 #17;Riboldi, 2014 #18;Rohrmann, 2016 #19;Roobab, 2021 #20}

Lisbeth =27

{Sala-Vila, 2011 #24;Saneei, 2015 #11;Sayon-Orea, 2015 #23;SeyyedSalehi, 2021 #4;Song, 2015 #16;Sun, 2023 #17;Surdea-Blaga, 2019 #1;Saadati, 2021 #15;Tarafdar, 2020 #10;Taylor, 2009 #9;Timmermann, 2021 #8;Virk-Baker, 2014 #22;Wang, 2012 #7;Wang, 2016 #26;Wei, 2018 #18;Wei, 2015 #20;Wolk, 2017 #5;Xu, 2014 #6;Yang, 2012 #12;Yang, 2020 #13;Yu, #25;Yu, 2022 #3;Zhang, 2021 #21;Zhang, 2018 #19;Zhao, 2020 #2;Zhu, 2014 #14;Zhu, 2013 #27}

Articles - full text

Excluded by reader pair 1, n=21 (Anka-Helen)

| Authors | Title | Reason excluded |
|---|---|------------------------------------|
| Additives, Efsa Panel on Food; Nutrient Sources added to, Food; Mortensen, A.; Aguilar, F.; Crebelli, R.; Di Domenico, A.; Dusemund, B.; Frutos, M. J.; Galtier, P.; Gott, D.; Gundert-Remy, U.; Lambre, C.; Leblanc, J. C.; Lindtner, O.; Moldeus, P.; Mosesso, P.; Oskarsson, A.; Parent-Massin, D.; Stankovic, I.; Waalkens-Berendsen, I.; Woutersen, R. A.; Wright, M.; van den Br; t, P.; Fortes, C.; Merino, L.; Toldra, F.; Arcella, D.; Christodoulidou, A.; Cortinas Abrahantes, J.; Barrucci, F.; Garcia, A.; Pizzo, F.; Battacchi, D.; Younes, M.; | Re-evaluation of potassium nitrite (E 249) and sodium nitrite (E 250) as food additives (EFSA Journal / European Food Safety Authority - Volume 15, Issue 6, pp. e04786 - published 2017-06-01) | Wrong exposure, background article |
| Al-Zalabani, A. H.; Stewart, K. F. J.; Wesselius, A.; Schols, Amwj; Zeegers, M. P.; | Modifiable risk factors for the prevention of bladder cancer: a systematic review of meta-analyses | No Grill Wrong exposure |
| Alex; er, D. D.; Weed, D. L.; Cushing, C. A.; Lowe, K. A.; | Meta-analysis of prospective studies of red meat consumption and colorectal cancer | No Grill Wrong exposure |
| Alex; er, D. D.; Weed, D. L.; Miller, P. E.; Mohamed, M. A.; | Red Meat and Colorectal Cancer: A Quantitative Update on the State of the Epidemiologic Science | No Grill Wrong exposure |
| Aune, D.; Chan, D. S. M.; Vieira, A. R.; Rosenblatt, D. A. N.; Vieira, R.; Greenwood, D. C.; Kampman, E.; Norat, T.; | Red and processed meat intake and risk of colorectal adenomas: a systematic review and meta-analysis of epidemiological studies | Wrong exposure |
| Aveta, A.; Cacciapuoti, C.; Barone, B.; Di Zazzo, E.; Del Giudice, F.; Maggi, M.; Ferro, M.; Terracciano, D.; Busetto, G. M.; Lucarelli, G.; Tataru, O. S.; Montanari, E.; Mirto, B. F.; Falcone, A.; Giampaglia, G.; Sicignano, E.; Capone, F.; Villano, G.; Angellotto, P.; Manfredi, C.; Napolitano, L.; Imbimbo, C.; P; olfo, S. D.; Crocetto, F.; | The Impact of Meat Intake on Bladder Cancer Incidence: Is It Really a Relevant Risk? | Wrong exposure |

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| Aykan, N. F.; | Red meat and colorectal cancer | Wrong publication type |
| Baghurst, P. A.; | Colorectal cancer | Wrong publication type |
| Barone, E.; Corrado, A.; Gemignani, F.; Li, S.; | Environmental risk factors for pancreatic cancer: an update | Wrong publication type |
| Cahill, L. E.; Pan, A.; Chiuve, S. E.; Sun, Q.; Willett, W. C.; Hu, F. B.; Rimm, E. B.; | Fried-food consumption and risk of type 2 diabetes and coronary artery disease: a prospective study in 2 cohorts of US women and men | Wrong publication type |
| Carroll, K. L.; Fruge, A. D.; Heslin, M. J.; Lipke, E. A.; Greene, M. W.; | Diet as a Risk Factor for Early-Onset Colorectal Adenoma and Carcinoma: A Systematic Review | No grill Wrong exposure |
| Chan, D. S. M.; Aune, D.; Norat, T.; | Red Meat Intake and Colorectal Cancer Risk: A Summary of Epidemiological Studies | Wrong publication type |
| Chiavarini, M.; Bertarelli, G.; Minelli, L.; Fabiani, R.; | Dietary Intake of Meat Cooking-Related Mutagens (HCAs) and Risk of Colorectal Adenoma and Cancer: A Systematic Review and Meta-Analysis | No grill Wrong exposure Background article |
| Crippa, A.; Larsson, S. C.; Discacciati, A.; Wolk, A.; Orsini, N.; | Red and processed meat consumption and risk of bladder cancer: a dose-response meta-analysis of epidemiological studies | Wrong publication type |
| de Medeiros, Gcbs; Mesquita, G. X. B.; Lima, Scvc; Silva, D. F. O.; de Azevedo, K. P. M.; Pimenta, Idsf; de Oliveira, Akdsg; Lyra, C. O.; Martinez, D. G.; Piuvezam, G.; | Associations of the consumption of unprocessed red meat and processed meat with the incidence of cardiovascular disease and mortality, and the dose-response relationship: A systematic review and meta-analysis of cohort studies | No grill Wrong exposure |
| Defago, M. D.; Elorriaga, N.; Irazola, V. E.; Rubinstein, A. L.; | Influence of food patterns on endothelial biomarkers: a systematic review | No grill Wrong exposure |
| Abid, Z.; Cross, A. J.; Sinha, R.; | Meat, dairy, and cancer | Not syst. Review Exclude |
| Clarke, R. E.; Dordevic, A. L.; Tan, S. M.; Ryan, L.; Coughlan, M. T.; | Dietary Advanced Glycation End Products and Risk Factors for Chronic Disease: A Systematic Review of Randomised Controlled Trials | No grill Wrong exposure |
| Crowe, W.; Elliott, C. T.; Green, B. D.; | A Review of the In Vivo Evidence Investigating the Role of Nitrite Exposure from | No grill Wrong exposure |

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| | Processed Meat Consumption in the Development of Colorectal Cancer | |
| Cui, Y.; Liao, M.; Xu, A.; Chen, G.; Liu, J.; Yu, X.; Li, S.; Ke, X.; Tan, S.; Luo, Z.; Wang, Q.; Liu, Y.; Wang, D.; Zeng, F.; | Association of maternal pre-pregnancy dietary intake with adverse maternal and neonatal outcomes: A systematic review and meta-analysis of prospective studies | No grill Wrong exposure |
| Abedini, A.; Zirak, M. R.; Akbari, N.; Saatloo, N. V.; Badeenezhad, A.; Sadighara, P.; | Acrylamide; a neurotoxin in popcorns: a systematic review and meta-analysis | Wrong exposure, no grill – excluded |
| | | |
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Included by reader pair 1, n=3 (Anka-Helen)

| Authors | Title | Included |
|--|---|---|
| Bylsma, L. C.; Alex, er, D.; | A Review and Meta-Analysis of Prospective Studies of Red and Processed Meat, Meat Cooking Methods, Heme Iron, Heterocyclic Amines and Prostate Cancer | yes |
| Brinkman, M.; Zeegers, M. P.; | Nutrition, total fluid and bladder cancer | yes |
| Bandera, E. V.; Kushi, L. H.; Moore, D. F.; Gifkins, D. M.; McCullough, M. L.; | Consumption of animal foods and endometrial cancer risk: a systematic literature review and meta-analysis | Anka excluded/ Helen maybe. Sent for second opinion. Included for further ROBIS evaluation. |

Excluded by reader pair 2, n=30 (Espen-Helen)

| Authors | Title | Reason excluded |
|---|--|---|
| Duan, F.; Song, C.; Shi, J.; Wang, P.; Ye, H.; Dai, L.; Zhang, J.; Wang, K. | Identification and epidemiological evaluation of gastric cancer risk factors: based on a field synopsis and meta-analysis in Chinese population | No PECO No Grill Wrong population |
| Einolghozati, M.; Talebi-Ghane, E.; Amirsadeghi, S.; Fereshteh, Mehri; | Evaluation of polycyclic aromatic hydrocarbons (PAHs) in processed cereals: A meta-analysis study, systematic review, and health risk assessment | No Grill Wrong exposure |
| El Asri, A.; Zarrouq, B.; El Kinany, K.; Bouguenouch, L.; Ouldin, K.; El Rhazi, K.; | Associations between nutritional factors and KRAS mutations in colorectal cancer: a systematic review | No Grill Wrong exposure |
| Farvid, M. S.; Stern, M. C.; Norat, T.; Sasazuki, S.; Vineis, P.; Weijenberg, M. P.; Wolk, A.; Wu, K.; Stewart, B. W.; Cho, E.; | Consumption of red and processed meat and breast cancer incidence: A systematic review and meta-analysis of prospective studies | No Grill Wrong exposure |
| Feng, H. Y.; Zhou, Y.; Wang, L. Z.; Wang, Y. L.; Zhou, S. P.; Tian, F. Y.; | Consumption of processed food and risk of nasopharyngeal carcinoma: a systematic review and meta-analysis | No Grill Wrong exposure |
| Feskens, E. J.; Sluik, D.; van Woudenberg, G. J.; | Meat consumption, diabetes, and its complications | No Grill Wrong exposure |
| Forte, A.; De Sanctis, R.; Leonetti, G.; Manfredelli, S.; Urbano, V.; Bezzi, M.; | Dietary chemoprevention of colorectal cancer | No grill Wrong publication type |
| Gadiraju, T. V.; Patel, Y.; Gaziano, J. M.; Djousse, L.; | Fried Food Consumption and Cardiovascular Health: A Review of Current Evidence | No grill Wrong publication type |
| Ghaffari, H. R.; Yunesian, M.; Nabizadeh, R.; Nasser, S.; Sadjadi, A.; Pourfarzi, F.; Poustchi, H.; Eshraghian, A.; | Environmental etiology of gastric cancer in Iran: a systematic review focusing on drinking water, soil, food, radiation, and geographical conditions | No grill Wrong publication type |
| Ghorbani, M.; Najafi Saleh, H.; Barjasteh-Askari, F.; Nasser, S.; Davoudi, M.; | The effect of gas versus charcoal open flames on the induction of polycyclic aromatic hydrocarbons in cooked meat: a systematic review and meta-analysis | Background article Literature search 1 |
| Gnagnarella, P.; Caini, S.; Maisonneuve, P.; Gini, S.; | Carcinogenicity of High Consumption of Meat and Lung Cancer Risk Among Non- | No Grill Wrong exposure |

| | | |
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| | Smokers: A Comprehensive Meta-Analysis | |
| raff, R. E.; Cho, E.; Preston, M. A.; Sanchez, A.; Mucci, L. A.; Wilson, K. M.; | Dietary Acrylamide Intake and Risk of Renal Cell Carcinoma in Two Large Prospective Cohorts | No Grill Wrong publication type |
| Grosso, G.; La Vignera, S.; Condorelli, R. A.; Godos, J.; Marventano, S.; Tieri, M.; Ghelfi, F.; Titta, L.; Lafranconi, A.; Gambera, A.; Alonzo, E.; Sciacca, S.; Buscemi, S.; Ray, S.; Del Rio, D.; Galvano, F.; | Total, red and processed meat consumption and human health: an umbrella review of observational studies | No Grill Wrong publication type |
| Guo, J. Y.; Wei, W.; Zhan, L. X.; | Red and processed meat intake and risk of breast cancer: a meta-analysis of prospective studies | No Grill Wrong publication type |
| Heidarzadeh-Esfahani, N.; Soleimani, D.; Hajiahmadi, S.; Moradi, S.; Heidarzadeh, N.; Nachvak, S. M.; | Dietary Intake in Relation to the Risk of Reflux Disease: A Systematic Review | No Grill Wrong exposure |
| Hogervorst, J.; Virgolino, A.; Halldorsson, T. I.; Vinceti, M.; Akesson, A.; Le; er, K.; Nawrot, T.; Filippini, T.; Laguzzi, F.; | Maternal acrylamide exposure during pregnancy and fetal growth: A systematic review and dose-response meta-analysis of epidemiological studies | No Grill Wrong exposure |
| Huang, J.; Yue, N.; Shi, N.; Wang, Q.; Cui, T.; Ying, H.; Wang, Z.; Leng, J.; Sui, Z.; Xu, Y.; Wei, B.; Jin, H.; | Influencing factors of lung cancer in nonsmoking women: systematic review and meta-analysis | No Grill |
| Huang, Y.; Cao, D. H.; Chen, Z. Y.; Chen, B.; Li, J.; Guo, J. B.; Dong, Q.; Liu, L. R.; Wei, Q.; | Red and processed meat consumption and cancer outcomes: Umbrella review | No Grill Wrong publication type |
| Humans, Iarc Working Group on the Evaluation of Carcinogenic Risks to; | Red Meat and Processed Meat | Background article Literature search 1 |
| Hur, S. J.; Jo, C.; Yoon, Y.; Jeong, J. Y.; Lee, K. T.; | Controversy on the correlation of red and processed meat consumption with colorectal cancer risk: an Asian perspective | Wrong publication type Background article Literature search 1 |
| Iko Afe, O. H.; Kpoclou, Y. E.; Douny, C.; Anihouvi, V. B.; Igout, A.; Mahillon, J.; Hounhouigan, D. J.; Scippo, M. L.; | Chemical hazards in smoked meat and fish | Background article Literature search 1 |
| Jakszyn, P.; Gonzalez, C. A.; | Nitrosamine and related food intake and gastric and oesophageal cancer risk: a systematic review of the epidemiological evidence | Wrong publication type |

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| Johnson, I. T.; | The cancer risk related to meat and meat products | Wrong publication type |
| Kalteh, S.; Ahmadi, E.; Ghaffari, H.; Yousefzadeh, S.; Abtahi, M.; Dobaradaran, S.; Saeedi, R.; | Occurrence of polycyclic aromatic hydrocarbons in meat and meat products: systematic review, meta-analysis and probabilistic human health risk | No health-outcome |
| Kotemori, A.; Ishihara, J.; Zha, L.; Liu, R.; Sawada, N.; Iwasaki, M.; Sobue, T.; Tsugane, S.; Group, Jphc Study; | Dietary acrylamide intake and the risk of endometrial or ovarian cancers in Japanese women | No Grill Wrong study design Wrong publication type |
| Krittanawong, C.; Isath, A.; Hahn, J.; Wang, Z.; Narasimhan, B.; Kaplin, S. L.; Jneid, H.; Virani, S. S.; Tang, W. H. W.; | Fish Consumption and Cardiovascular Health: A Systematic Review | Wrong exposure Background article |
| Langevin, S. M.; Lin, D.; Matsuo, K.; Gao, C. M.; Takezaki, T.; Stolzenberg-Solomon, R. Z.; Vasavi, M.; Hasan, Q.; Taioli, E.; | Review and pooled analysis of studies on MTHFR C677T polymorphism and esophageal cancer | No Grill Wrong exposure |
| Le, N. T.; | Meat Mutagens and Colorectal Adenoma and Cancer: A Problem with a Recently Published Systematic Review and Meta-Analysis | No Grill Wrong publication type |
| Le, N. T.; Michels, F. A.; Song, M.; Zhang, X.; Bernstein, A. M.; Giovannucci, E. L.; Fuchs, C. S.; Ogino, S.; Chan, A. T.; Sinha, R.; Willett, W. C.; Wu, K.; | A Prospective Analysis of Meat Mutagens and Colorectal Cancer in the Nurses' Health Study and Health Professionals Follow-up Study | Wrong publication type Literature search 1 |
| Lee, H.; Wang, Q.; Yang, F.; Tao, P.; Li, H.; Huang, Y.; Li, J. Y.; | SULT1A1 Arg213His polymorphism, smoked meat, and breast cancer risk: a case-control study and meta-analysis | Wrong study design Wrong publication type |

Included by reader pair 2, n=1 (Eспен-Helen)

| Authors | Title | Reason excluded |
|---|---|-----------------|
| Gamboa-Loira, B.; Lopez-Carrillo, L.; Mar-Sanchez, Y.; Stern, D.; Cebrian, M. E.; | Epidemiologic evidence of exposure to polycyclic aromatic hydrocarbons and breast cancer: A systematic review and meta-analysis | INCLUDED |

Excluded by reader pair 3, n=20 (Jan-Helen)

| Authors | Title | Reason excluded |
|--|---|---|
| Lin, Y.; Knol, D.; Trautwein, E. A.; | Phytosterol oxidation products (POP) in foods with added phytosterols and estimation of their daily intake: A literature review | Wrong outcome Background article |
| Lippi, G.; Mattiuzzi, C.; | Fried food and prostate cancer risk: systematic review and meta-analysis | Wrong exposure |
| Lippi, G.; Mattiuzzi, C.; Cervellin, G.; | Fried food consumption and ischemic heart disease: A systematic literature review | Wrong exposure |
| Martinez Gongora, V.; Matthes, K. L.; Castano, P. R.; Linseisen, J.; Rohrmann, S.; | Dietary Heterocyclic Amine Intake and Colorectal Adenoma Risk: A Systematic Review and Meta-analysis | Wrong exposure Background article |
| Morales, F. J.; Mesias, M.; Delgado-Andrade, C.; | Association between heat-induced chemical markers and ultra-processed foods: A case study on breakfast cereals | Wrong exposure Wrong publication type |
| Ofori, S. A.; Cobbina, S. J.; Doke, D. A.; | The occurrence and levels of polycyclic aromatic hydrocarbons (PAHs) in African environments-a systematic review | Wrong exposure Background article Literature search 1 |
| Ollberding, N. J.; Wilkens, L. R.; Henderson, B. E.; Kolonel, L. N.; Le March, , L.; | Meat consumption, heterocyclic amines and colorectal cancer risk: the Multiethnic Cohort Study | Wrong study design |
| Pericleous, M.; M; air, D.; Caplin, M. E.; | Diet and supplements and their impact on colorectal cancer | Wrong publication type |
| Pericleous, M.; Rossi, R. E.; M; air, D.; Why; , T.; Caplin, M. E. | Nutrition and pancreatic cancer | Wrong publication type |
| Pierre, F.; | Processed meat consumption and colorectal cancer risk: current situation and definition of a nutritional prevention | Wrong exposure |
| Qin, P.; Liu, D.; Wu, X.; Zeng, Y.; Sun, X.; Zhang, Y.; Li, Y.; Wu, Y.; Han, M.; Qie, R.; Huang, S.; Zhao, Y.; Feng, Y.; Yang, X.; Liu, Y.; Li, H.; Zhang, M.; Hu, D.; Hu, F.; | Fried-food consumption and risk of overweight/obesity, type 2 diabetes mellitus, and hypertension in adults: a meta-analysis of observational studies | Wrong exposure |
| Qin, P.; Zhang, M.; Han, M.; Liu, D.; Luo, X.; Xu, L.; Zeng, Y.; Chen, Q.; Wang, T.; Chen, X.; Zhou, Q.; Li, Q.; Qie, R.; Wu, X.; Li, Y.; Zhang, Y.; Wu, Y.; Hu, D.; Hu, F.; | Fried-food consumption and risk of cardiovascular disease and all-cause mortality: a meta-analysis of observational studies | Wrong exposure Background article |

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|---|---|--|
| Quan, W.; Jiao, Y.; Xue, C. Y.; Li, Y.; Wang, Z. J.; Zeng, M. M.; Qin, F.; He, Z. Y.; Chen, J.; | Processed potatoes intake and risk of type 2 diabetes: a systematic review and meta-analysis of nine prospective cohort studies | Wrong exposure |
| Quan, W.; Xu, Y.; Luo, J.; Zeng, M. M.; He, Z. Y.; Shen, Q. W.; Chen, J.; | Association of dietary meat consumption habits with neurodegenerative cognitive impairment: an updated systematic review and dose-response meta-analysis of 24 prospective cohort studies | Wrong exposure |
| Reng, Q.; Zhu, L. L.; Feng, L.; Li, Y. J.; Zhu, Y. X.; Wang, T. T.; Jiang, F.; | Dietary meat mutagens intake and cancer risk: A systematic review and meta-analysis | JA: Wrong exposure Background article |
| Riboldi, B. P.; Vinhas, A. M.; Moreira, J. D.; | Risks of dietary acrylamide exposure: a systematic review | Wrong exposure |
| Rohrmann, S.; Linseisen, J.; | Processed meat: the real villain? | Wrong publication type |
| Roobab, U.; Khan, A. W.; Lorenzo, J. M.; Arshad, R. N.; Chen, B. R.; Zeng, X. A.; Bekhit, A. E.; Suleman, R.; Aadil, R. M.; | A systematic review of clean-label alternatives to synthetic additives in raw and processed meat with a special emphasis on high-pressure processing (2018-2021) | Wrong exposure |
| Pelucchi, C.; Bosetti, C.; Galeone, C.; La Vecchia, C.; | Dietary acrylamide and cancer risk: An updated meta-analysis | No grill Wrong exposure |
| Pelucchi, C.; La Vecchia, C.; Bosetti, C.; Boyle, P.; Boffetta, P.; | Exposure to acrylamide and human cancer-a review and meta-analysis of epidemiologic studies | No grill Wrong exposure |

Excluded by reader pair 4, n=27 (Lisbeth-Helen)

| Authors | Title | Excluded? |
|---|---|--|
| Sala-Vila, A.; Calder, P. C.; | Update on the relationship of fish intake with prostate, breast, and colorectal cancers | No grill Wrong exposure |
| Saneei, P.; Willett, W.; Esmailzadeh, A.; | Red and processed meat consumption and risk of glioma in adults: A systematic review and meta-analysis of observational studies | No grill Wrong exposure |
| Sayon-Orea, C.; Carlos, S.; Martinez-Gonzalez, M. A.; | Does cooking with vegetable oils increase the risk of chronic diseases?: a systematic review | No grill Wrong exposure |
| SeyyedSalehi, M. S.; Mohebbi, E.; Sasanfar, B.; Toorang, F.; Zendehtdel, K.; | Dietary N-nitroso compounds intake and bladder cancer risk: A systematic review and meta-analysis | No grill Wrong exposure |
| Song, P.; Wu, L.; Guan, W.; | Dietary Nitrates, Nitrites, and Nitrosamines Intake and the Risk of Gastric Cancer: A Meta-Analysis | No grill Wrong exposure |
| Sun, C.; Wu, N.; Kou, S.; Wu, H.; Liu, Y.; Pei, A.; Li, Q.; | Occurrence, formation mechanism, detection methods, and removal approaches for chloropropanols and their esters in food: An updated systematic review | No health outcome |
| Surdea-Bлага, T.; Negrutiu, D. E.; Palage, M.; Dumitrascu, D. L.; | Food and Gastroesophageal Reflux Disease | No grill Wrong exposure |
| Saadati, H. M.; Okhovat, B.; Khodamoradi, F.; | Incidence and Risk Factors of Colorectal Cancer in the Iranian Population: a Systematic Review | No grill Wrong exposure |
| Tarafdar, A.; Chawda, S.; Sinha, A.; | Health Risk Assessment from Polycyclic Aromatic Hydrocarbons (PAHs) Present in Dietary Components: A Meta-analysis on a Global Scale | Wrong study design Wrong publication type |
| Taylor, V. H.; Misra, M.; Mukherjee, S. D.; | Is red meat intake a risk factor for breast cancer among premenopausal women? | No grill Wrong exposure Wrong publication type |
| Timmermann, C. A. G.; Molck, S. S.; Kadawathagedara, M.; Bjerregaard, A. A.; Tornqvist, | A review of dietary intake of acrylamide in humans | No grill Wrong exposure |

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| M.; Brantsaeter, A. L.; Pedersen, M.; | | |
| Virk-Baker, M. K.; Nagy, T. R.; Barnes, S.; Groopman, J.; | Dietary acrylamide and human cancer: a systematic review of literature | No grill Wrong exposure |
| Wang, C. J.; Jiang, H.; | Meat intake and risk of bladder cancer: a meta-analysis | No grill Wrong exposure |
| Wang, X.; Lin, X. Y.; Ouyang, Y. Y.; Liu, J.; Zhao, G.; Pan, A.; Hu, F. B.; | Red and processed meat consumption and mortality: dose-response meta-analysis of prospective cohort studies | No grill Wrong exposure |
| Wei, Y. D.; Zou, D. Z.; Cao, D.; Xie, P.; | Association between processed meat and red meat consumption and risk for glioma: A meta-analysis from 14 articles | No grill Wrong exposure |
| Wolk, A.; | Potential health hazards of eating red meat | No grill Wrong exposure |
| Xu, J.; Yang, X. X.; Wu, Y. G.; Li, X. Y.; Bai, B.; | Meat Consumption and Risk of Oral Cavity and Oropharynx Cancer: A Meta-Analysis of Observational Studies | No grill Wrong exposure |
| Yang, W. S.; Wong, M. Y.; Vogtmann, E.; Tang, R. Q.; Xie, L.; Yang, Y. S.; Wu, Q. J.; Zhang, W.; Xiang, Y. B.; | Meat consumption and risk of lung cancer: evidence from observational studies | No grill Wrong exposure |
| Yang, X.; Li, Y. Q.; Wang, C. J.; Mao, Z. X.; Zhou, W.; Zhang, L. L.; Fan, M. Y.; Cui, S. Y.; Li, L. L.; | Meat and fish intake and type 2 diabetes: Dose-response meta-analysis of prospective cohort studies | No grill Wrong exposure |
| Yu, J. C.; Li, H. G.; Liu, Z. X.; Wang, T.; Zhou, F. D.; Ma, S. D.; Chen, B. C.; Chen, W. J.; | Meat Intake and the Risk of Bladder Cancer: A Systematic Review and Meta-Analysis of Observational Studies | No grill Wrong exposure |
| Yu, J. C.; Liu, Z. X.; Liang, D.; Li, J. J.; Ma, S. D.; Wang, G. J.; Chen, W. J.; | Meat Intake and the Risk of Hepatocellular Carcinoma: A Meta-Analysis of Observational Studies | No grill Wrong exposure |
| Zhang, N. N.; Zhou, Q.; Fan, D. M.; Xiao, J. B.; Zhao, Y. L.; Cheng, K. W.; Wang, M. F.; | Novel roles of hydrocolloids in foods: Inhibition of toxic maillard reaction products formation and attenuation of their harmful effects | No grill Wrong exposure Wrong publication type |
| Zhang, Z.; Chen, G. C.; Qin, Z. Z.; Tong, X.; Li, D. P.; Qin, L. Q.; | Poultry and Fish Consumption in Relation to Total Cancer Mortality: A Meta-Analysis of Prospective Studies | No grill Wrong exposure |
| Zhao, Z.; Wang, F.; Chen, D.; Zhang, C.; | Red and processed meat consumption and esophageal | No grill Wrong exposure |

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| | cancer risk: a systematic review and meta-analysis | |
| Zhu, H. C.; Yang, X.; Xu, L. P.; Zhao, L. J.; Tao, G. Z.; Zhang, C.; Qin, Q.; Cai, J.; Ma, J. X.; Mao, W. D.; Zhang, X. Z.; Cheng, H. Y.; Sun, X. C.; | Meat Consumption Is Associated with Esophageal Cancer Risk in a Meat- and Cancer-Histological-Type Dependent Manner | No grill Wrong exposure |
| Zhu, H. C.; Yang, X.; Zhang, C.; Zhu, C.; Tao, G. Z.; Zhao, L. J.; Tang, S. W.; Shu, Z.; Cai, J.; Dai, S. B.; Qin, Q.; Xu, L. P.; Cheng, H. Y.; Sun, X. C.; | Red and Processed Meat Intake Is Associated with Higher Gastric Cancer Risk: A Meta-Analysis of Epidemiological Observational Studies | No grill Wrong exposure |
| Wei, Q. Y.; Liu, T.; Sun, D. W.; | Advanced glycation end-products (AGEs) in foods and their detecting techniques and methods: A review | No grill Wrong exposure |

Articles included for further ROBIS evaluation – summarised

| Authors | Title | Included |
|---|---|---|
| Bylsma, L. C.; Alex, er, D.; | A Review and Meta-Analysis of Prospective Studies of Red and Processed Meat, Meat Cooking Methods, Heme Iron, Heterocyclic Amines and Prostate Cancer | Anka-Helen |
| Brinkman, M.; Zeegers, M. P.; | Nutrition, total fluid and bladder cancer | Anka-Helen |
| Gamboa-Loira, B.; Lopez-Carrillo, L.; Mar-Sanchez, Y.; Stern, D.; Cebrian, M. E.; | Epidemiologic evidence of exposure to polycyclic aromatic hydrocarbons and breast cancer: A systematic review and meta-analysis | Espen-Helen |
| Bandera, E. V.; Kushi, L. H.; Moore, D. F.; Gifkins, D. M.; McCullough, M. L.; | Consumption of animal foods and endometrial cancer risk: a systematic literature review and meta-analysis | Anka - Helen maybe. Sent for second opinion. Included for further ROBIS evaluation. |
| | | |

New distribution of full text papers

| Authors | Title | Included | ROBIS - pair | When |
|---|---|-----------------|---------------------|------------------------|
| Bylsma, L. C.; Alex; er, D.; | A Review and Meta-Analysis of Prospective Studies of Red and Processed Meat, Meat Cooking Methods, Heme Iron, Heterocyclic Amines and Prostate Cancer | Anka-Helen | Anka - Helen | Evaluated 01.06. 23 |
| Brinkman, M.; Zeegers, M. P.; | Nutrition, total fluid and bladder cancer | Anka-Helen | Jan - Helen | Evaluated 01.06. 23 |
| Gamboa-Loira, B.; Lopez-Carrillo, L.; Mar-Sanchez, Y.; Stern, D.; Cebrian, M. E.; | Epidemiologic evidence of exposure to polycyclic aromatic hydrocarbons and breast cancer: A systematic review and meta-analysis | Espen-Helen | Espen - Helen | Evaluated 01.06. 23 |
| Bandera, E. V.; Kushi, L. H.; Moore, D. F.; Gifkins, D. M.; McCullough, M. L.; | Consumption of animal foods and endometrial cancer risk: a systematic literature review and meta-analysis | Anka - Helen | Lisbeth - Helen | Evaluated 01.06. 23 |

ROBIS-evaluation

All papers marked in yellow was excluded under ROBIS at they were evaluated to be outside of the scope of our systematic review.

| Authors | Title | Included | ROBIS by | Notes |
|---|---|--------------|-----------------|---|
| Bylsma, L. C.; Alex; er, D.; | A Review and Meta-Analysis of Prospective Studies of Red and Processed Meat, Meat Cooking Methods, Heme Iron, Heterocyclic Amines and Prostate Cancer | Anka-Helen | Anka - Helen | ROBIS-evaluation attached |
| Brinkman, M.; Zeegers, M. P.; | Nutrition, total fluid and bladder cancer | Anka-Helen | Jan - Helen | Evaluated to be outside the svcope of our review ROBIS not completed |
| Gamboa-Loira, B.; Lopez-Carrillo, L.; Mar-Sanchez, Y.; Stern, D.; Cebrian, M. E.; | Epidemiologic evidence of exposure to polycyclic aromatic hydrocarbons and breast cancer: A systematic review and meta-analysis | Espen-Helen | Espen - Helen | Evaluated to be outside the svcope of our review ROBIS not completed |
| B; era, E. V.; Kushi, L. H.; Moore, D. F.; Gifkins, D. M.; McCullough, M. L.; | Consumption of animal foods and endometrial cancer risk: a systematic literature review and meta-analysis | Anka - Helen | Lisbeth - Helen | Evaluated to be outside the svcope of our review ROBIS not completed |

*A review and meta-analysis of prospective studies of red and processed meat, meat cooking methods, heme iron, heterocyclic amines and prostate cancer
Bylsma and Alexander 2015*

Phase 1 Assessing relevance

Review type: Aetiology

| Category (PICO equivalents) | Target question | Review being assessed |
|--------------------------------|---|-----------------------|
| Patients/Population(s): | Humans, men | |
| Exposure(s) and comparator(s): | Meat, preparation method, HAA, B(a)P and heme | |
| Outcome(s): | Prostate cancer | |

| Relevance assessment | Reasoning |
|--|---|
| Does the question addressed by the review match the question you are trying to answer? | There is an overlap between the scope for the review; meat preparation method and prostate cancer - and the question we are trying to answer; consumption of grilled food and health outcomes |
| | |

Phase 2: Identifying concerns with the review process

Domain 1 – study eligibility criteria

| Signalling question | Rating | Reasoning |
|---|--------|--|
| 1.1 Did the review adhere to pre-defined objectives and eligibility criteria? | PN | Unclear if the objectives and eligibility criteria were predefined. Some objectives were not predefined e.g., the exclusion of case control studies, were clearly not (as they were excluded due to the number of hits) |
| 1.2 Were the eligibility criteria appropriate for the review question? | PN | Yes, but they are described slightly different in the flowchart in figure 1 and the text. However, the reasoning for not including case-control studies are not. In figure 1 (excludes studies on dietary patterns, case-control studies, ecologic studies, randomized controlled trials, commentaries, and reviews) In the text (excludes case-control studies because of the abundance of prospective cohort studies. Excludes studies on dietary patterns unless they analyzed for red or processed meat independently of a dietary pattern. In addition, cross-sectional surveys, ecologic analysis, case reports, editorials and experimental animal studies. |
| 1.3 Were eligibility criteria unambiguous? | PN | The eligibility criteria are described slightly different in the flowchart in figure 1 and the text. |

| | | |
|--|------|---|
| 1.4 Were all restrictions in eligibility criteria based on study characteristics appropriate? | PN | I would say no – the authors excluded case-control-studies based on the reason “because of the abundance of available prospective cohort studies” |
| 1.5 Were any restrictions in eligibility criteria based on sources of information appropriate? | PN | The search terms were searched for in the title and abstract, using English search terms (e.g., not MESH), this might exclude studies by language without it being described in the search as a limit |
| Concerns regarding specification of study eligibility criteria | High | The eligibility criteria does not seem to be set in advance |

Domain 2: Identification and selection of studies

| Signalling question | Rating | Reasoning |
|---|---------------|---|
| 2.1 Did the search include an appropriate range of databases/ electronic sources for published and unpublished reports? | PY | The authors searched in PubMed and EMBASE, no strategies for unpublished reports described |
| 2.2 Were methods additional to database searching used to identify relevant reports? | PY | The authors used hand-search in addition to database-search |
| 2.3 Were the terms and structure of the search strategy likely to retrieve as many eligible studies as possible? | PN | Could have been a broader set of search terms (e.g., MESH) |
| 2.4 Were restrictions based on date, publication format, or language appropriate? | PY | When searching for search term in the title/abstract only the authors may indirectly exclude papers in other languages without that it is stated as a criterion |
| 2.5 Were efforts made to minimize errors in selection of studies? | N | The exclusion of case-control studies may introduce errors, and probably not minimize error in selection of studies. The paper does not explicitly describe how many authors reviewing the studies. They write “we”, and there are only two authors. However – in the “Authors contribution” at the last page they write who did what and it appears that “LCB did the literature search, data extraction, analysis (...)” while “DDA contributed to the methodological design (...)” |
| Concerns regarding methods used to identify and/or select studies | high | The strategy on using title/abstract (not using MESH) + the exclusion of case-control studies as a result of the retrieved cohorts from the search + only one author performing the selections all drives towards a high risk of bias |

Domain 3: Data collection and study appraisal

| Signalling question | Rating | Reasoning |
|--|---------------|--|
| 3.1 Were efforts made to minimize error in data collection? | PN | It does not say. However, the authors (both) are employees at EpidStat, who is partially funded by the NCBS – National Cattlemen’s Beef association. The work was partially supported by the NCBS. The disclaimer says they did not intervene on the analyses, but does not mention data search/review in this section |
| 3.2 Were sufficient study characteristics available for both review authors and readers to be able to interpret the results? | PN | The study characteristics are there, but this section is apparently written by only one author as described in “Authors contribution”. Data referred ok and made available |
| 3.3 Were all relevant study results collected for use in the synthesis? | PN | In the flow chart n= 19 cohort studies/26 publications In table 2, while 21 in table 1. |
| 3.4 Was risk of bias (or methodological quality) formally assessed using appropriate criteria? | NI | I cannot find this |
| 3.5 Were efforts made to minimise error in risk of bias assessment? | NI | I cannot find this |
| Concerns regarding methods used to collect data and appraise studies | Unclear/high | Data collection done by one author only raises uncertainty. So does the ties to the beef industry s both the authors an the project was funded partially by NCBS – National Cattlemen’s Beef association |

Domain 4: Synthesis and findings

| Signalling question | Rating | Reasoning |
|--|---------------|--|
| 4.1 Did the synthesis include all studies that it should? | PN | Uncertain, difficult to tell. It seems as 21 studies are referred out of the 26 studies/19 cohorts |
| 4.2 Were all predefined analyses followed or departures explained? | PN | I could not find any predefined analyses/plan. Excluding the case control studies (not according to protocol) may introduce bias to the data synthesis |
| 4.3 Was the synthesis appropriate given the nature and similarity in the research questions, study designs and outcomes across included studies? | PY | Primary and secondary analyses ok. |
| 4.4 Was between-studies variation (heterogeneity) minimal or addressed in the synthesis? | Y | Yes, this addressed, trough sensitivity analyses |

| | | |
|---|------|---|
| 4.5 Were the findings robust, e.g. as demonstrated through funnel plot or sensitivity analyses? | Y | Ok. Funnel plots generated |
| 4.6 Were biases in primary studies minimal or addressed in the synthesis? | PN | Not shown/described |
| Concerns regarding methods used to synthesize results | High | Concern regarding lack of addressing bias in original studies |

Phase 3: Judging risk of bias

Summary of concerns identified during the phase 2 assessment:

| Domain | Concern | Rationale for concern |
|--|---------|---|
| Concerns regarding specification of study eligibility criteria | high | The eligibility criteria does not seem to be set in advance |
| Concerns regarding methods used to identify and/or select studies | high | The strategy on using title/abstract (not using MESH) + the exclusion of case-control studies as a result of the retrieved cohorts from the search + only one author performing the selections all drives towards a high risk of bias |
| Concerns regarding methods used to collect data and appraise studies | high | Data collection done by one author only raises uncertainty. So does the ties to the beef industry s both the authors an the project was funded partially by NCBS – National Cattlemen’s Beef association |
| Concerns regarding the synthesis and findings | high | Not pre-set criteria, one author performing the analyses, exclusion of studies not according to protocol and ties to the beef industry |

| Signalling question | Rating | Reasoning |
|--|--------|--|
| A. Did the interpretation of findings address all the concerns identified during the Phase 2 assessment? | N | I seems as the concerns regarding the eligibility criteria /identification and selection of studies /study selections/data collection and study appraisal/synthesis and findings is not properly addressed in the interpretation of the findings |
| B. Was the relevance of identified studies to the review's research question appropriately considered | PN | The studies included in the review seems appropriate. However, I have concerns regarding the studies that may NOT have been included. |
| C. Did the reviewers avoid emphasizing results based on their statistical significance? | PN | They authors discuss primarily the negative findings in the review, but do explore an explanation model trough total mutagenic activity |
| Risk of bias | High | |