

SUPPLEMENTAL MATERIAL

Supplemental Methods

MEDLINE Search Query.

(meat[tw] OR meats[tiab] OR "meat products"[tw] OR "meat products"[tiab] **OR** beef[tiab] OR veal[tiab] OR goat[tiab] OR lamb[tiab] OR pork[tiab] OR sausage[tiab] OR sausages[tiab] OR ham[tiab] OR hams[tiab] OR pastrami[tiab] OR bacon[tiab] OR bacons[tiab] OR salami[tiab] OR salamis[tiab] OR "meat protein"[tiab] OR "meat proteins"[tiab] OR "luncheon meat"[tiab] OR "luncheon meats"[tiab] OR "deli meat"[tiab] OR "deli meats"[tiab] OR "animal food"[tiab] OR "animal foods"[tiab]) **AND** (("Diabetes Mellitus"[Mesh] OR diabetes[tiab]) **OR** ("cardiovascular diseases"[Mesh] OR "cardiovascular disease"[tiab] OR "cardiovascular diseases"[tiab] OR "heart disease"[tiab] OR "heart diseases"[tiab] OR "myocardial infarction"[tiab] OR "myocardial infarctions"[tiab] OR "heart attack"[tiab] OR "heart attacks"[tiab] OR "sudden death"[tiab] OR "sudden deaths"[tiab] OR stroke[tiab] OR strokes[tiab] OR "cerebrovascular accident"[tiab] OR "cerebrovascular accidents"[tiab]))

List of the 75 Excluded Full-Text Manuscripts and Reasons for Exclusion.

| Reference | Reason for Exclusion |
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| 1. KeyTJ <i>et al.</i> 1999(36) | Review |
| 2. Murakami K <i>et al.</i> 2005(48) | Review |
| 3. Key TJ <i>et al.</i> 1998(35) | Review |
| 4. Fraser GE 1988(14) | Review |
| 5. Harper AE 1983(23) | Review |
| 6. Wahrburg U <i>et al.</i> 2002(74) | Review |
| 7. Willett W 2003(75) | Review |
| 8. Stoeckli R, Keller U 2004(67) | Review |
| 9. Biesalski HK 2005(2) | Review |
| 10. Li D 2005(39) | Review |
| 11. Adams SM, Standridge JB 2006(1) | Review |
| 12. Muntoni S, Muntoni S 2006(47) | Review |
| 13. Hodgson JM <i>et al.</i> 2007(28) | Review |
| 14. Tappel A 2007(69) | Review |
| 15. Truswell AS 2007(71) | Review |
| 16. Dobbins MJ <i>et al.</i> 2007(10) | Review |
| 17. Bilenko N <i>et al.</i> 2005(3) | Cross-sectional study |
| 18. Shimakawa T <i>et al.</i> 1993(61) | Cross-sectional study |
| 19. Jafar TH 2006(32) | Cross-sectional study |
| 20. Panagiotakos DB <i>et al.</i> 2007(52) | Cross-sectional study |
| 21. Qidwai W <i>et al.</i> 2005(55) | Cross-sectional study |
| 22. Yan S 1989(76) | Cross-sectional study |
| 23. Pfister R <i>et al.</i> 2004(53) | Cross-sectional study |
| 24. Menotti A <i>et al.</i> 1999(44) | Ecological study |
| 25. Takeya Y <i>et al.</i> 1984(68) | Ecological study |
| 26. Fraser AG <i>et al.</i> 1992(13) | Duplicate publication |
| 27. Schulze MB <i>et al.</i> 2007(59) | Duplicate publication |
| 28. Hu FB <i>et al.</i> 1999(30) | Duplicate publication |
| 29. van Dam RM <i>et al.</i> 2002(72) | Duplicate publication |
| 30. Gramenzi A <i>et al.</i> 1990(21) | Duplicate publication |
| 31. Lee DH <i>et al.</i> 2004(38) | Duplicate publication |
| 32. Chang-Claude J <i>et al.</i> 2005(8) | Vegetarians vs. non vegetarians |
| 33. Thorogood M <i>et al.</i> 1994(70) | Vegetarians vs. non vegetarians |
| 34. Mann JI <i>et al.</i> 1997(41) | Vegetarians vs. non vegetarians |
| 35. Vang A <i>et al.</i> 2008(73) | Vegetarians vs. non vegetarians (Adventist Health Study) |
| 36. Fraser GE 1999(15) | Vegetarians vs. non vegetarians (Adventist Health Study) |
| 37. Fraser GE <i>et al.</i> 1992(16) | Vegetarians vs. non vegetarians (Adventist Health Study) |
| 38. Fraser GE <i>et al.</i> 1997(17) | Vegetarians vs. non vegetarians (Adventist Health Study) |
| 39. Fraser GE <i>et al.</i> 1997(18) | Vegetarians vs. non vegetarians (Adventist Health Study) |
| 40. Snowdon DA 1988(63) | Vegetarians vs. non vegetarians (Adventist Health Study) |

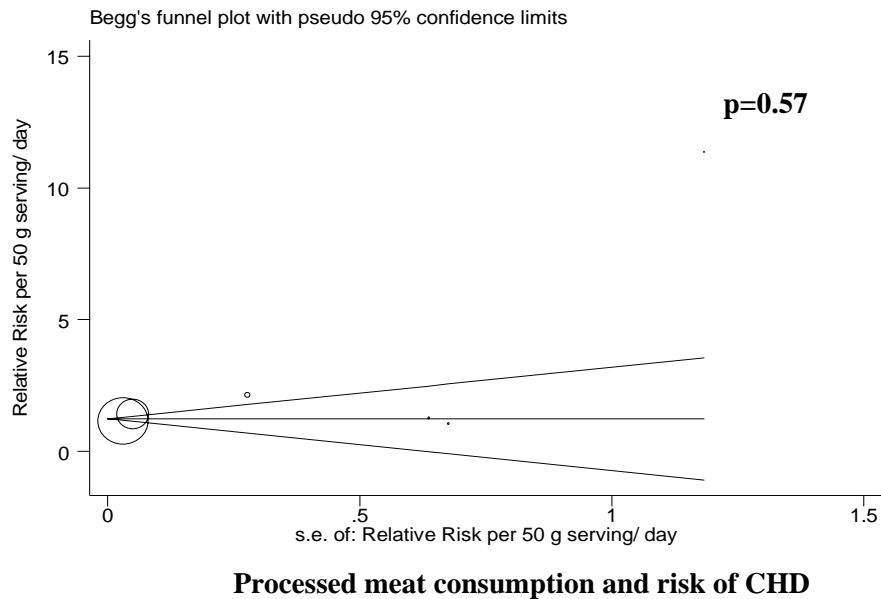
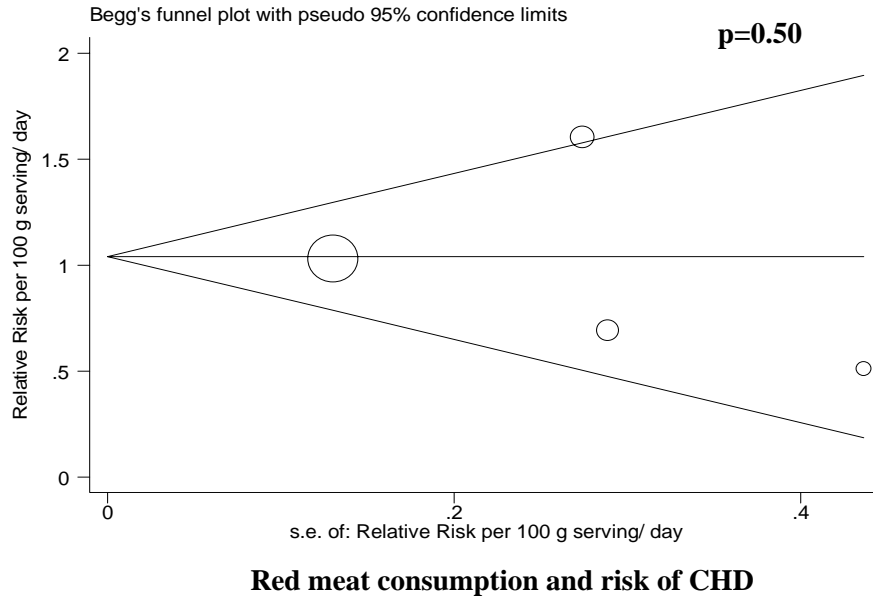
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| 41. Snowdon DA 1984(64) | Vegetarians vs. non vegetarians (Adventist Health Study) |
| 42. Brunner EJ <i>et al.</i> 2008(4) | Dietary patterns |
| 43. Drogan D <i>et al.</i> 2007(11) | Dietary patterns |
| 44. Fung TT <i>et al.</i> 2001(20) | Dietary patterns |
| 45. Harriss LR <i>et al.</i> 2007(24) | Dietary patterns |
| 46. Heidemann C <i>et al.</i> 2008(26) | Dietary patterns |
| 47. Hu FB <i>et al.</i> 2000(29) | Dietary patterns |
| 48. Hu G <i>et al.</i> 2006(31) | Dietary patterns |
| 49. Kant AK <i>et al.</i> 1995(34) | Dietary patterns |
| 50. Martinez-Ortiz JA <i>et al.</i> 2006(42) | Dietary patterns |
| 51. Fung TT <i>et al.</i> 2008(19) | Dietary patterns |
| 52. Mitrou PN <i>et al.</i> 2007(45) | Dietary patterns |
| 53. McNaughton SA <i>et al.</i> 2008(43) | Dietary patterns |
| 54. Hodge AM <i>et al.</i> 2007(27) | Dietary patterns |
| 55. Heidemann C <i>et al.</i> 2005(25) | Dietary patterns |
| 56. Osler M <i>et al.</i> 2001(50) | Dietary patterns |
| 57. Schulze MB <i>et al.</i> 2005(60) | Dietary patterns |
| 58. Osler M <i>et al.</i> 2002(49) | Dietary patterns |
| 59. Panagiotakos D <i>et al.</i> 2007(51) | Dietary patterns |
| 60. Montonen J <i>et al.</i> 2005(46) | Dietary patterns |
| 61. Jiang R <i>et al.</i> 2004(33) | Iron intake |
| 62. Malaviarachchi D <i>et al.</i> 2002(40) | Iron intake |
| 63. Sauvaget C <i>et al.</i> 2002(58) | Animal protein/fat |
| 64. Steffen LM <i>et al.</i> 2007(66) | Disease outcome other than incident CVD or diabetes |
| 65. Damiao R <i>et al.</i> 2006(9) | Disease outcome other than incident CVD or diabetes |
| 66. Burke V <i>et al.</i> 2007(5) | Disease outcome other than incident CVD or diabetes |
| 67. Qi L <i>et al.</i> 2007(54) | Participants with prevalent disease |
| 68. Qiu D <i>et al.</i> 2003(56) | Not meeting meat definition |
| 69. Cai H <i>et al.</i> 2007(6) | Not meeting meat definition |
| 70. Kinjo Y <i>et al.</i> 1999(37) | Not meeting meat definition |
| 71. Zyriax BC <i>et al.</i> 2005(77) | Not meeting meat definition |
| 72. Spencer CA <i>et al.</i> 1999(65) | Not meeting meat definition |
| 73. Duc Son le NT <i>et al.</i> 2005(12) | Not meeting meat definition |
| 74. Reunanen A <i>et al.</i> 1995(57) | Not meeting meat definition |
| 75. Simmons RK <i>et al.</i> 2007(62) | Prediction score, not adjusted |

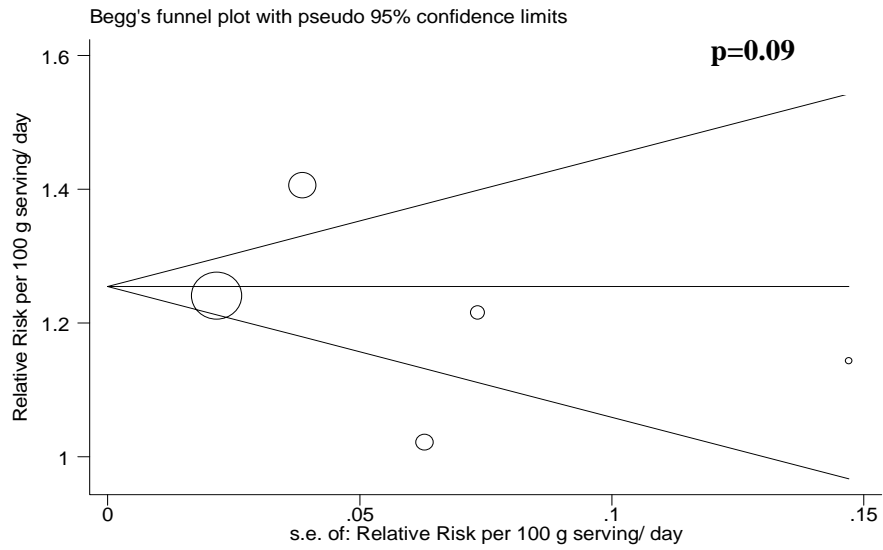
Nutritional Qualities of Red and Processed Meats

To estimate average nutritional qualities of red and processed meats, we analyzed data from two 24-hr diet recalls in the 2005-06 US National Health and Nutrition Examination Survey (NHANES), accounting for NHANES sampling and weighting strategies(7). Foods consumed in this US survey were grouped to match our meta-analysis' definitions for red and processed meat. For red meats the specific codes used in the NHANES were: 210-215 for beef; 220- 222, 224 and 227 for pork; and 230-234 for lamb, veal, and game. For processed meats the specific codes used in the NHANES were: 216 for processed beef; 223 for ham; 225-226 for bacon; and 252 for frankfurters, sausages, lunchmeats, and meat spreads. Preservative contents were obtained from a recent report of published nitrate, nitrite, and nitrosamine contents of foods commonly consumed in the US(22). Preservative contents of subtypes of red and processed meats from this report were applied directly to the subtypes of red and processed meats in the NHANES database, after standardization to the same serving size. The individual subtypes of red and processed meats were first summed, and then averaged across the two days and across all individuals applying the NHANES sampling weights(7) (the survey design was declared in STATA as: svyset [pw=wtdr2d], strata(sdmvstra) psu(sdmvpsu)) to derive the overall average national weighted red and processed meat consumption. Subsequently, average nutrient and preservative contents were estimated for a 50 g serving of red meat and a 50 g serving of processed meat. Analyses were performed using STATA 10.0 (College Station, TX), with two-tailed $\alpha < 0.05$.

Supplemental Figure

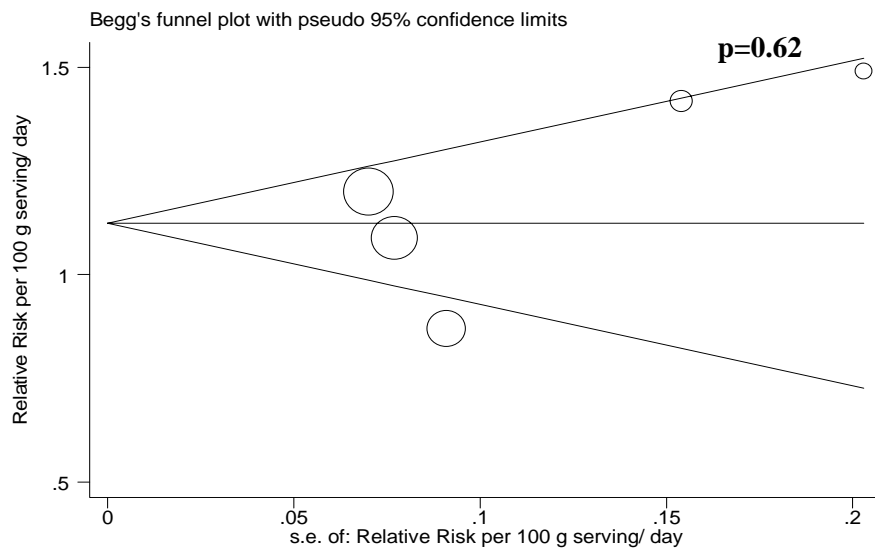
Funnel plots for graphical evaluation of potential publication bias. P values based on the Begg adjusted rank-correlation test for presence of publication bias.



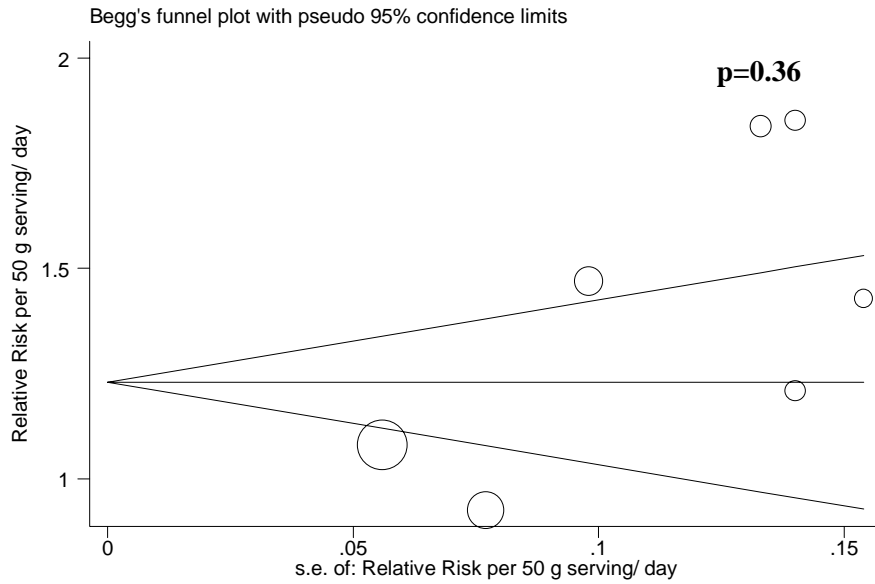


Total meat consumption and risk of CHD

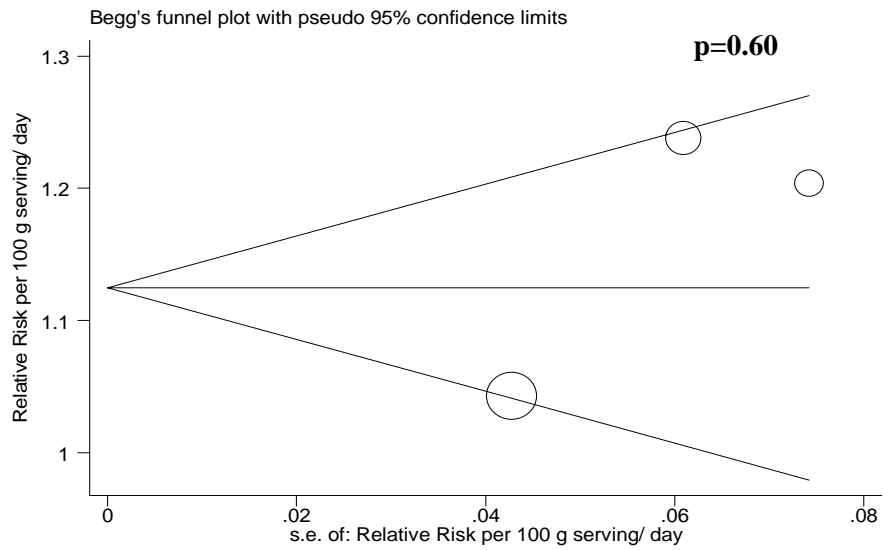
The smallest study with the extreme findings was omitted from the funnel plot, for presentation purposes. The p-value corresponds to the Begg's test when all studies are included.



Red meat consumption and risk of diabetes



Processed meat consumption and risk of diabetes



Total meat consumption and risk of diabetes

Supplemental References

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