# Appendix 10

## Fuller details of the analyses relating ETS exposure at home to dietary fat consumption

APPENDIX 10

Dietary Fat consumption in SDs between lifelong nonsmokers exposed or unexposed to ETS at home
Meta-Analysis of Differences, 31-AUG-06

BASIC DATA USED IN META-ANALYSES - DIETARY FAT

| Study Title | Continent | DELTA | St.Err. DELTA | WGT | WGTNS | WGTETS |
|---|---|---|---|---|---|---|
| Cardenas | US | -0.0307 | 0.0048 | 176320.0 | 71634.0 | 104686.0 |
| Forastiere 2000 | Europe | -0.0837 | 0.0471 | 1921.0 | 721.0 | 1200.0 |
| Hamling (HALS2) | Europe | 0.0782 | 0.0668 | 1265.0 | 974.0 | 291.0 |
| Hamling (HSE93) | Europe | 0.0660 | 0.0431 | 3664.0 | 3007.0 | 657.0 |
| Hamling (HULS) | Europe | 0.2551 | 0.0695 | 948.0 | 643.0 | 305.0 |
| Hamling (HALS) | Europe | 0.1898 | 0.0455 | 2351.0 | 1673.0 | 678.0 |
| Koo (Hong Kong) | Asia | 0.3532 | 0.1068 | 530.0 | 419.0 | 111.0 |
| Koo (Sweden) | Europe | 0.8087 | 0.2647 | 87.0 | 69.0 | 18.0 |
| Koo (USA) | US | 0.3578 | 0.1690 | 144.0 | 60.0 | 84.0 |
| NHANES III | US | 0.2337 | 0.0449 | 3171.0 | 2555.0 | 616.0 |
| NHIS 2000 | US | 0.2218 | 0.0461 | 5063.0 | 4538.0 | 525.0 |
| Reynolds 2004 | US | 0.0570 | 0.0097 | 42237.0 | 20950.0 | 21287.0 |

NOTES: DELTA SD DIFFERENCE IN DIETARY FAT CONSUMPTION ASSOCIATED WITH ETS EXPOSURE AT HOME
SE DELTA STANDARD ERROR OF DELTA
WGT TOTAL NUMBER OF FEMALES
WGTNS NUMBER OF FEMALES WITH NO ETS EXPOSURE
WGTETS NUMBER OF FEMALES WITH ETS EXPOSURE

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FEMALES
NEVER SMOKERS OR NEVER AND LONG TERM EX SMOKERS
EXCLUDING BUTLER, EMMONS, LE MARCHAND AND THORNTON

APPENDIX 10

Dietary Fat consumption in SDs between lifelong nonsmokers exposed or unexposed to ETS at home
Meta-Analysis of Differences, 31-AUG-06

REGRESSION ESTIMATES, WEIGHTS AND OTHER RELEVANT DETAILS

| Study Title | Country | DELTA | St.Err. DELTA | Z | WGT | RWGT | Expos | SMOKE |
|---|---|---|---|---|---|---|---|---|
| Cardenas | US | -0.0307 | 0.0048 | -6.3313 | 176320.0 | 42531.0624 | Fat | 1 |
| Forastiere 2000 | Italy | -0.0837 | 0.0471 | -1.7763 | 1921.0 | 450.3904 | Meat | 1 |
| Hamling (HALS2) | UK | 0.0782 | 0.0668 | 1.1705 | 1265.0 | 224.0585 | Fried food | 1 |
| Hamling (HSE93) | UK | 0.0660 | 0.0431 | 1.5326 | 3664.0 | 539.1919 | Fried food | 1 |
| Hamling (HULS) | Hungary | 0.2551 | 0.0695 | 3.6691 | 948.0 | 206.8724 | Fried food | 1 |
| Hamling (HALS) | UK | 0.1898 | 0.0455 | 4.1690 | 2351.0 | 482.4730 | Fried food | 1 |
| Koo (Hong Kong) | Hong Kong | 0.3532 | 0.1068 | 3.3087 | 530.0 | 87.7528 | Fried food | 1 |
| Koo (Sweden) | Sweden | 0.8087 | 0.2647 | 3.0555 | 87.0 | 14.2759 | Fried food | 1 |
| Koo (USA) | US | 0.3578 | 0.1690 | 2.1168 | 144.0 | 35.0000 | Fat | 1 |
| NHANES III | US | 0.2337 | 0.0449 | 5.2065 | 3171.0 | 496.3355 | Fried food | 1 |
| NHIS 2000 | US | 0.2218 | 0.0461 | 4.8114 | 5063.0 | 470.5609 | Fried food | 1 |
| Reynolds 2004 | US | 0.0570 | 0.0097 | 5.8570 | 42237.0 | 10558.5778 | Meat | 1 |

NOTES: DELTA SD DIFFERENCE IN DIETARY FAT CONSUMPTION ASSOCIATED WITH ETS EXPOSURE AT HOME
SE DELTA STANDARD ERROR OF DELTA
Z RATIO OF DELTA TO ITS STANDARD ERROR (APPROXIMATE NORMAL STATISTIC)
WGT TOTAL NUMBER OF FEMALES FOR FIXED EFFECT MODELS
RWGT INVERSE OF THE VARIANCE OF DELTA FOR RANDOM EFFECTS MODELS
SMOKE 1 = NEVER SMOKERS, 2 = NEVER OR LONG-TERM EX-SMOKERS

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FEMALES
NEVER SMOKERS OR NEVER AND LONG TERM EX SMOKERS
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FIXED- AND RANDOM-EFFECTS META-ANALYSES OF DATA FOR DIETARY FAT

ALL STUDIES

Difference in SDs (DELTA)

| | Deviance | (DF) | |
|---|---|---|---|
| Model 1 | 0.6096 | (11) | |
| | Estimate | S.E. | P |
| Constant | 0.2089 | 0.0680 | 0.0106 |

WEIGHTED on DELTA Weights

| | Deviance | (DF) | |
|---|---|---|---|
| Model 1 | 1050.6533 | (11) | |
| | Estimate | S.E. | P |
| Constant | 0.0001 | 0.0200 | 0.9942 |

RANDOM EFFECTS MODEL
WEIGHTED on Random Weights

| | Deviance | (DF) | |
|---|---|---|---|
| Model 1 | 22.3367 | (11) | |
| | Estimate | S.E. | P |
| Constant | 0.1310 | 0.0317 | 0.0017 |

NORTH AMERICA

| | Deviance | (DF) | |
|---|---|---|---|
| Model 1 | 0.0950 | (4) | |
| | Estimate | S.E. | P |
| Constant | 0.1679 | 0.0689 | 0.0715 |

WEIGHTED on DELTA Weights

| | Deviance | (DF) | |
|---|---|---|---|
| Model 1 | 738.8697 | (4) | |
| | Estimate | S.E. | P |
| Constant | -0.0048 | 0.0285 | 0.8745 |

RANDOM EFFECTS MODEL
WEIGHTED on Random Weights

| | Deviance | (DF) | |
|---|---|---|---|
| Model 1 | 8.4011 | (4) | |
| | Estimate | S.E. | P |
| Constant | 0.1188 | 0.0420 | 0.0476 |

EUROPE

| | Deviance | (DF) | |
|---|---|---|---|
| Model 1 | 0.4848 | (5) | |
| | Estimate | S.E. | P |
| Constant | 0.2190 | 0.1271 | 0.1455 |

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FEMALES
NEVER SMOKERS OR NEVER AND LONG TERM EX SMOKERS
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EUROPE

Difference in SDs (DELTA)
WEIGHTED on DELTA Weights

| | Deviance | (DF) | |
|---|---|---|---|
| Model 1 | 154.4125 | (5) | |
| | Estimate | S.E. | P |
| Constant | 0.0917 | 0.0549 | 0.1560 |

RANDOM EFFECTS MODEL
WEIGHTED on Random Weights

| | Deviance | (DF) | |
|---|---|---|---|
| Model 1 | 8.6897 | (5) | |
| | Estimate | S.E. | P |
| Constant | 0.1302 | 0.0633 | 0.0946 |

NORTH AMERICA AND EUROPE

| | Deviance | (DF) | |
|---|---|---|---|
| Model 1 | 0.5869 | (10) | |
| | Estimate | S.E. | P |
| Constant | 0.1958 | 0.0730 | 0.0231 |

WEIGHTED on DELTA Weights

| | Deviance | (DF) | |
|---|---|---|---|
| Model 1 | 984.4441 | (10) | |
| | Estimate | S.E. | P |
| Constant | -0.0006 | 0.0204 | 0.9756 |

RANDOM EFFECTS MODEL
WEIGHTED on Random Weights

| | Deviance | (DF) | |
|---|---|---|---|
| Model 1 | 20.2451 | (10) | |
| | Estimate | S.E. | P |
| Constant | 0.1179 | 0.0319 | 0.0041 |

ASIA

| | Deviance | (DF) | |
|---|---|---|---|
| Model 1 | 0.0000 | (0) | |
| | Estimate | S.E. | P |
| Constant | 0.3532 | | |

WEIGHTED on DELTA Weights

| | Deviance | (DF) | |
|---|---|---|---|
| Model 1 | 0.0000 | (0) | |
| | Estimate | S.E. | P |
| Constant | 0.3532 | | |

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FIXED- AND RANDOM-EFFECTS META-ANALYSES OF DATA FOR DIETARY FAT

ASIA
RANDOM EFFECTS MODEL

Difference in SDs (DELTA)
WEIGHTED on Random Weights

| | Deviance | (DF) | |
|---|---|---|---|
| Model 1 | 0.0000 | (0) | |
| | Estimate | S.E. | P |
| Constant | 0.3532 | 0.1068 | |

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FEMALES
NEVER SMOKERS OR NEVER AND LONG TERM EX SMOKERS
EXCLUDING BUTLER, EMMONS, LE MARCHAND AND THORNTON