Appendix 5

Fuller details of the analyses relating lung cancer risk to dietary fat consumption

APPENDIX 5

Dietary fat consumption and lung cancer - Meta-Analysis of Dose Response Exposure, 07-AUG-06

Scored by Standard Deviations

BASIC DATA USED IN META-ANALYSES - DIETARY FAT

Study title	RR	RRL	RRU	CA1	CA0	CO1	CO0	REL SD
Alavanja	1.8600	1.0900	3.1800	57.0400	24.9400	131.2600	106.8000	0.8675
Alavanja	1.6300	0.9200	2.8900	38.5600	24.9400	101.2600	106.8000	1.3996
Alavanja	2.2400	1.3100	3.8500	58.2000	24.9400	111.2000	106.8000	1.9317
Alavanja	2.3800	1.3500	4.1700	46.7000	24.9400	83.9800	106.8000	2.7992
Hu J	0.8000	0.5000	1.4000	50.2200	39.8400	199.4900	94.8000	1.1577
Hu J	1.7000	1.0000	3.0000	44.5100	29.8400	83.2200	94.8000	2.2368
Kalandidi	1.1200	0.5300	2.3500	24.2400	24.5000	30.2400	34.2000	0.9464
Kalandidi	1.4000	0.6900	2.8300	33.5900	24.5000	33.5200	34.2000	1.5958
Kalandidi	0.5700	0.2300	1.4500	9.3500	24.5000	22.9200	34.2000	2.5422
Ozasa	1.4700	0.7900	2.7000	30.0400	15.3800	58492.9600	44012.1000	1.2538
Ozasa	1.9100	0.9800	3.7200	19.6800	15.3800	29494.8100	44012.1000	2.4948
Swanson	0.9000	0.3000	2.8000	8.5700	9.5100	19.4700	19.5000	2.7992
Wu	1.0000	0.4000	2.6000	9.0000	8.5800	5387.0200	5132.7000	0.9464
Wu	0.5000	0.2000	1.7000	5.5200	8.5800	6606.0600	5132.7000	1.5958
Wu	1.8000	0.7000	4.3000	10.2700	8.5800	3412.7700	5132.7000	2.5422

NOTES: RR,RL,RU RELATIVE RISKS AND LOWER AND UPPER CONFIDENCE INTERVALS
CA1,CA0 NUMBERS (OR PSEUDO-NUMBERS) OF MORE EXPOSED AND LEAST EXPOSED CASES
CO1,CO0 NUMBERS (OR PSEUDO-NUMBERS) OF MORE EXPOSED AND LEAST EXPOSED CONTROLS
CA1,CA0,CO1,CO0 NOT SHOWN IF ORIGINAL RR PER STANDARD DEVIATION
REL SD NUMBER OF STANDARD DEVIATIONS FROM LEAST EXPOSED LEVEL

FEMALES
NEVER SMOKERS OR NEVER AND LONG TERM EX SMOKERS
INCLUDING ONLY DATA FOR SELECTED FAT INDICES SHOWN IN TABLE 5

APPENDIX 5

Dietary fat consumption and lung cancer - Meta-Analysis of Dose Response Exposure, 07-AUG-06

Scored by Standard Deviations

REGRESSION ESTIMATES, WEIGHTS AND OTHER RELEVANT DETAILS

Study title	Country	Beta	St.Err. Beta	Z	Weight	RSEX	SMOKE
Alavanja	US	0.2666	0.0915	2.9136	119.4085	f	2
Hu J	Canada	0.2543	0.1251	2.0330	63.9103	f	1
Kalandidi	Greece	-0.0796	0.1678	-0.4742	35.5293	f	1
Ozasa	Japan	0.2567	0.1360	1.8884	54.0956	f	1
Swanson	US	-0.0376	0.2036	-0.1849	24.1332	f	2
Wu	US	0.1989	0.1771	1.1231	31.8743	f	1

NOTES: BETA SLOPE OF LOG RR ON SD OF VARIABLE
SE BETA STANDARD ERROR OF BETA
Z RATIO OF BETA TO ITS STANDARD ERROR (APPROXIMATE NORMAL STATISTIC)
WEIGHT INVERSE OF THE VARIANCE OF BETA
SMOKE 1 = NEVER SMOKERS, 2 = NEVER OR LONG-TERM EX-SMOKERS
RSEX SEX FOR RR

FEMALES
NEVER SMOKERS OR NEVER AND LONG TERM EX SMOKERS
INCLUDING ONLY DATA FOR SELECTED FAT INDICES SHOWN IN TABLE 5

APPENDIX 5

Dietary fat consumption and lung cancer - Meta-Analysis of Dose Response Exposure, 07-AUG-06

Scored by Standard Deviations

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

WEIGHTED on Beta Weights

	Deviance	(DF)				
Dose Response (Beta)						
Model 1	5.0281	(5)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1963	0.0551	0.0162	1.2169	1.0923	1.3558

RANDOM EFFECTS MODEL

Dose Response (Beta)

WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	5.0037	(5)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1960	0.0554	0.0165	1.2166	1.0915	1.3560

USA AND CANADA

Dose Response (Beta)

WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	1.9478	(3)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.2236	0.0646	0.0406	1.2506	1.1018	1.4195

RANDOM EFFECTS MODEL

Dose Response (Beta)

WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	1.9478	(3)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.2236	0.0646	0.0406	1.2506	1.1018	1.4195

OTHER

Dose Response (Beta)

WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	2.4255	(1)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1234	0.1056	0.4506	1.1314	0.9198	1.3916

RANDOM EFFECTS MODEL

Dose Response (Beta)

WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	1.0000	(1)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1030	0.1675	0.6492	1.1084	0.7982	1.5393

NEVER SMOKERS ONLY

Dose Response (Beta)

WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	3.0762	(3)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1815	0.0734	0.0899	1.1990	1.0383	1.3847

RANDOM EFFECTS MODEL

Dose Response (Beta)

WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	3.0076	(3)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1809	0.0745	0.0934	1.1983	1.0356	1.3866

FEMALES

NEVER SMOKERS OR NEVER AND LONG TERM EX SMOKERS

INCLUDING ONLY DATA FOR SELECTED FAT INDICES SHOWN IN TABLE 5