Appendix 13

Fuller details of the analyses relating lung cancer risk to the number of cigarettes smoked by the husband – adjusted for confounding

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

BASIC DATA USED IN META-ANALYSES

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)

Confounder Differences based on Random-effects Regression

Study title	Country	RR	RRL	RRU	CA1	CA0	CO1	CO0	NCigs
Akiba	Japan	1.2445	0.5935	2.4603	23.3446	17.2525	67.7982	62.3577	1.0000
Akiba	Japan	1.3667	0.6469	2.8791	19.3887	17.2525	51.2773	62.3577	2.1350
Akiba	Japan	1.7763	0.4821	6.8262	3.8930	17.2525	7.9213	62.3577	3.8390
Boffetta 2	7 countries	0.9258	0.4629	1.7590	24.7703	26.3655	53.4610	52.6813	1.8175
Boffetta	7 countries	0.9459	0.7284	1.2392	168.4328	167.1315	319.8892	300.2551	1.3380
Boffetta	7 countries	0.5119	0.3053	0.8352	22.7100	167.1315	79.7018	300.2551	2.5880
Boffetta	7 countries	1.1205	0.6940	1.8145	31.9655	167.1315	51.2508	300.2551	4.3060
Brownson 1	USA	1.6368	0.3800	6.7227	3.7166	12.9761	6.1486	35.1382	2.3157
Brownson 2	USA	0.9258	0.7406	1.1110	252.8220	259.3840	710.6711	675.0187	2.3157
Buffler	USA	0.7396	0.3143	1.7565	31.1556	8.2177	157.5104	30.7264	2.3157
Butler	USA	1.8846	0.4478	7.9861	2.7079	5.8475	11313.3687	46040.6090	2.3157
Cardenas	USA	1.0817	0.4917	2.1635	8.9303	32.2712	11805.5524	46148.9986	1.0040
Cardenas	USA	1.1555	0.6740	2.1184	18.3760	32.2712	22741.7213	46148.9986	2.2670
Cardenas	USA	1.7682	0.9306	3.3503	13.1735	32.2712	10654.0693	46148.9986	4.3140
Chan	China	0.6911	0.3962	1.1979	32.0984	51.3674	65.5857	72.5338	1.8175
Choi	Korea	1.5212	0.8586	2.6784	46.7076	26.5178	85.9209	74.2033	1.8175
Correa	USA	1.9393	0.7589	4.9186	13.4489	8.1852	59.9862	70.8026	2.3157
De Waard	Netherlands	2.4134	0.7888	7.3716	18.1476	4.0628	119.7457	64.6974	1.8175
Du	China	0.6474	0.3132	1.3377	12.8183	29.1630	67.5830	99.5399	1.0000
Du	China	1.3456	0.7403	2.4457	28.6859	29.1630	72.7637	99.5399	2.6030
Enstrom	USA	0.8792	0.6173	1.2440	99.5426	45.1720	15160.4588	6048.9126	2.3157
Fontham	USA	1.2153	0.9798	1.5073	359.9461	188.3058	645.1018	410.1362	2.3157
Gao	China	1.2118	0.8084	1.8026	166.8386	49.3887	242.6058	87.0253	1.8175
Garfinkel 1	USA	1.2233	0.8284	1.8204	38.6886	68.7757	38183.9454	83033.4416	1.0040
Garfinkel 1	USA	0.9926	0.6858	1.4347	47.7308	68.7757	58057.3960	83033.4416	2.7520
Garfinkel 2	USA	0.8187	0.3900	1.7186	10.9472	44.8650	43.9941	147.6049	1.0040
Garfinkel 2	USA	1.0153	0.6021	1.7120	31.1601	44.8650	100.9717	147.6049	2.2670
Garfinkel 2	USA	1.7661	1.0055	3.1017	28.7183	44.8650	53.4991	147.6049	4.3140
Geng	China	1.3753	0.4814	3.9491	7.6110	15.0383	15.1355	41.1296	0.4850
Geng	China	1.8611	0.5726	6.0413	6.2132	15.0383	9.1308	41.1296	1.2730
Geng	China	2.4814	1.1180	5.5264	25.3040	15.0383	27.8895	41.1296	2.6030
Gorlova	USA	1.1196	0.6133	2.0445	64.7692	29.4836	65.8549	33.5632	2.3157
Hirayama	Japan	1.2898	0.8790	1.9012	98.3904	34.9070	43403.7852	19860.9399	0.8600
Hirayama	Japan	1.3849	0.8971	2.1426	48.1225	34.9070	19771.1480	19860.9399	2.6030
Hole	Scotland	1.2867	0.1188	14.1236	1.9716	1.0180	710.0530	471.7311	0.2080
Hole	Scotland	2.4050	0.2485	23.0556	2.7985	1.0180	539.2135	471.7311	2.4090
Humble 1	USA	1.7116	0.4659	6.6183	6.2089	7.6685	8.8324	18.6720	1.5820
Humble 1	USA	1.0772	0.2065	6.1851	2.5384	7.6685	5.7375	18.6720	3.3920
IARC: Kreuzer	Germany	0.7381	0.4613	1.1993	50.4570	47.3752	132.1228	91.5577	1.8175
Inoue	Japan	2.4961	0.2999	6.4145	6.4886	3.3158	11.5252	14.7012	1.0000
Inoue	Japan	2.8353	0.7708	14.0113	9.2208	3.3158	14.4190	14.7012	2.6030
Janerich	USA	0.6912	0.4332	1.1060	72.2145	70.4551	85.2073	57.4626	2.3157
Jee	Korea	1.9110	1.0511	3.7265	53.2411	11.6940	75964.3299	31885.8937	1.0000
Jee	Korea	1.3325	0.6218	2.9314	14.0793	11.6940	28810.7203	31885.8937	2.6030
Johnson	Canada	1.1291	0.5834	2.1641	37.0969	13.1907	384.5927	154.4047	1.8175
Kabat 1	USA	0.7286	0.2306	2.2595	12.3346	11.2864	14.7632	9.8420	2.3157
Kabat 2	USA	0.7765	0.3977	1.5247	17.6539	32.5650	56.3100	80.6604	1.6540
Kabat 2	USA	0.9403	0.4347	2.0404	12.2641	32.5650	32.3042	80.6604	3.6380
Kalandidi	Greece	1.4817	0.7617	2.8822	33.3150	27.1036	37.8434	45.6170	1.3380
Kalandidi	Greece	1.6216	0.7569	3.4740	21.2715	27.1036	22.0782	45.6170	2.9020
Kalandidi	Greece	1.3398	0.4610	3.8942	7.5623	27.1036	9.4996	45.6170	5.3350
Koo	China	2.2693	0.8960	5.7658	12.6925	25.0046	11.4592	51.2301	0.7080
Koo	China	1.6291	0.7584	3.5110	19.2352	25.0046	24.1909	51.2301	1.7670
Koo	China	1.0569	0.4085	2.6911	8.8258	25.0046	17.1093	51.2301	3.1830
Lagarde	Sweden	1.0670	0.7794	1.4660	81.3850	124.4428	285.3189	465.5203	1.8175
Lam T	China	2.1235	1.1105	4.0425	21.9002	87.4961	21.6819	183.9507	0.7080
Lam T	China	1.7327	1.1146	2.6881	54.3341	87.4961	65.9251	183.9507	1.7670

ALL STUDIES
EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY
GENG DATA REPLACED WITH PNL ESTIMATES
WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

BASIC DATA USED IN META-ANALYSES

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)

Confounder Differences based on Random-effects Regression

Study title	Country	RR	RRL	RRU	CA1	CA0	CO1	CO0	NCigs
Lam T	China	1.8397	0.9510	3.5816	19.2153	87.4961	21.9591	183.9507	3.1830
Lam W	China	1.8821	1.0206	3.4833	35.8879	23.8383	63.7075	79.6455	1.8175
Layard	USA	0.5794	0.2193	1.5308	4.9321	25.6630	333.7028	1006.0621	0.8190
Layard	USA	0.5564	0.2481	1.2472	7.8190	25.6630	550.9362	1006.0621	2.6640
Lee	England	0.9259	0.3426	2.5093	17.3240	8.7312	36.6400	17.0987	1.8175
Lee C-H	Taiwan	1.7488	1.2064	2.5344	139.8922	60.7065	189.3712	143.7125	1.8175
Liu Q	China	0.6766	0.2223	2.1264	5.6338	13.5629	20.0188	32.6070	1.0000
Liu Q	China	2.6542	1.0983	6.6814	19.5248	13.5629	17.6851	32.6070	2.6030
Liu Z	China	0.7120	0.2774	1.8124	33.9945	7.0534	133.7850	19.7640	1.8175
Malats	7 Europe+Brazil	1.3973	0.7173	2.7108	34.8823	46.9569	23.5375	44.2744	1.8175
McGhee	China	1.2843	0.8748	1.8985	77.7339	78.6856	131.0778	170.4012	1.8175
Nishino	Japan	1.7389	0.6473	4.4439	9.2118	7.5150	21302.8692	30220.3007	1.8175
Ohno	Japan	0.9260	0.6204	1.3798	133.1612	54.1497	234.3862	88.2632	1.8175
Pershagen	Sweden	1.1143	0.6500	1.9500	34.7719	28.7581	138.8585	127.9677	1.8175
Rapiti	India	1.1140	0.4642	2.6922	12.2686	24.1256	18.6391	40.8326	1.8175
Rylander	Sweden	1.2731	0.5297	3.0666	7.7248	24.2485	41.6857	166.5886	1.8175
Schwartz	USA	1.0200	0.6676	1.5577	120.3787	68.4961	114.3430	66.3598	2.3157
Seow	Singapore	1.2009	0.8609	1.6753	87.7030	88.1211	299.7002	361.6383	1.8175
Shen	China	0.6372	0.2059	2.0291	10.4031	14.6297	12.0047	10.7566	0.4850
Shen	China	0.9964	0.3037	3.2076	11.7573	14.6297	8.6755	10.7566	1.2730
Shen	China	0.6289	0.2516	1.5813	31.6613	14.6297	37.0143	10.7566	2.6030
Shimizu	Japan	1.0011	0.5933	1.6871	49.4598	39.0906	89.5322	70.8413	1.8175
Sobue	Japan	1.0482	0.7236	1.5121	75.5278	61.2896	375.2975	319.2404	1.8175
Speize	USA	1.3927	0.2785	5.8492	27.2133	1.7651	199267.7570	17999.9996	2.3157
Stockwell	USA	1.4924	0.7462	2.7982	46.2710	20.2942	59.0472	38.6492	2.3157
Sun	China	1.0765	0.7424	1.5684	139.4964	89.5602	135.4451	93.6118	1.8175
Svensson	Sweden	1.2650	0.4930	3.2462	17.3637	7.2243	82.4423	43.3907	1.8175
Trichopoulos	Greece	0.5560	0.1198	2.5807	1.9983	25.0109	15.6698	109.0545	0.7080
Trichopoulos	Greece	2.3718	1.1985	4.6938	21.4020	25.0109	39.3454	109.0545	1.7670
Trichopoulos	Greece	3.6836	1.2183	11.1378	6.8442	25.0109	8.1014	109.0545	2.5880
Trichopoulos	Greece	1.6483	0.6156	4.4134	6.7756	25.0109	17.9239	109.0545	4.3060
Vineis	Western Europe	1.0086	0.5283	1.9404	21.7512	15.5646	29706.5465	21441.0887	1.8175
Wang L	China	1.0025	0.5840	1.6546	123.0330	25.4929	250.2661	51.9840	1.8175
Wang S	China	2.3758	1.1832	4.7892	64.7972	15.4553	58.7229	33.2772	1.8175
Wang T	China	0.3430	0.1078	1.1367	4.1433	44.6388	13.0469	48.2112	0.4850
Wang T	China	1.2801	0.7017	2.3232	43.5895	44.6388	36.7766	48.2112	1.2730
Wang T	China	1.2558	0.6817	2.3053	40.4573	44.6388	34.7949	48.2112	2.6030
Wu	USA	1.1142	0.4643	3.0641	17.2531	10.3232	32.5007	21.6678	2.3157
Wu-Williams	China	0.6443	0.5523	0.8284	282.2163	358.5992	508.6571	416.4535	1.8175
Zaridze	Russia	1.5995	1.0503	2.4282	60.7215	82.1644	85.6433	185.3619	0.7080
Zaridze	Russia	1.1971	0.7448	1.9330	36.7721	82.1644	69.3007	185.3619	2.2930
Zatloukal	Czech Republic	0.4416	0.1932	1.0028	6.5113	69.8273	140.8631	667.0546	1.8175
Zheng	China	2.3584	1.0184	5.4767	58.8146	7.1024	171.0207	48.7057	1.8175
Zhong	China	1.3856	0.8907	2.1773	79.9821	65.0798	78.2199	88.1859	0.7080
Zhong	China	0.8770	0.5847	1.3643	82.2956	65.0798	127.1502	88.1859	1.7670
Zhong	China	1.3363	0.6681	2.4817	23.2706	65.0798	23.5972	88.1859	3.1830

NOTES: RR,RL,RU RELATIVE RISKS AND LOWER AND UPPER CONFIDENCE INTERVALS

CA1,CA0 NUMBERS (OR PSEUDO-NUMBERS) OF EXPOSED AND UNEXPOSED CASES

CO1,CO0 NUMBERS (OR PSEUDO-NUMBERS) OF EXPOSED AND UNEXPOSED CONTROLS

NCIGS MIDPOINT OF NUMBER OF CIGARETTES SMOKED BY HUSBAND (IN UNITS OF 10)

ALL STUDIES
EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY
GENG DATA REPLACED WITH PNL ESTIMATES
WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

BASIC DATA USED IN META-ANALYSES

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)

Confounder Differences based on Random-effects Regression

Study title	Country	Beta	St.Err. Beta	Z	Weight	ETSse	FRU	VEG	FAT	EDU	TEA
Akiba	Japan	0.1429	0.1405	1.0171	50.6579	0.9896	0	0	0	0	0
Boffetta 2	7 countries	-0.0424	0.1874	-0.2263	28.4748	0.9130	0	0	0	0	0
Boffetta	7 countries	-0.0319	0.0515	-0.6194	377.0384	1.1768	0	0	0	0	0
Brownson 1	USA	0.2128	0.3165	0.6724	9.9828	0.8345	0	0	0	1	0
Brownson 2	USA	-0.0333	0.0447	-0.7450	500.4780	1.1579	0	0	0	0	0
Buffler	USA	-0.1303	0.1896	-0.6872	27.8178	0.8581	0	0	0	0	0
Butler	USA	0.2737	0.3174	0.8623	9.9263	0.9215	0	0	0	0	0
Cardenas	USA	0.1215	0.0725	1.6759	190.2497	1.4556	0	1	1	2	0
Chan	China	-0.2033	0.1553	-1.3091	41.4627	0.9109	0	0	0	0	0
Choi	Korea	0.2308	0.1597	1.4452	39.2094	0.9091	0	0	0	0	0
Correa	USA	0.2860	0.2059	1.3890	23.5878	1.1582	0	0	0	0	0
De Waard	Netherlands	0.4847	0.3137	1.5451	10.1618	0.8696	0	0	0	0	0
Du	China	0.1296	0.1167	1.1105	73.4274	1.0879	0	0	0	0	0
Enstrom	USA	-0.0556	0.0772	-0.7202	167.7897	1.0456	1	0	0	2	0
Fontham	USA	0.0842	0.0475	1.7726	443.2133	1.1293	1	1	0	2	0
Gao	China	0.1057	0.1126	0.9387	78.8721	0.8022	0	0	0	2	0
Garfinkel 1	USA	-0.0062	0.0684	-0.0906	213.7410	1.1963	0	0	0	0	0
Garfinkel 2	USA	0.1232	0.0647	1.9042	238.8864	1.5345	0	0	0	0	0
Geng	China	0.3361	0.1500	2.2407	44.4444	1.0478	0	0	0	0	0
Gorlova	USA	0.0488	0.1326	0.3680	56.8739	1.1005	0	0	0	1	0
Hirayama	Japan	0.0973	0.0799	1.2178	156.6414	0.8998	0	0	0	0	0
Hole	Scotland	0.3163	0.3633	0.8706	7.5765	1.0530	0	0	0	0	0
Humble 1	USA	0.0769	0.2450	0.3139	16.6597	1.2885	0	0	0	0	0
IARC: Kreuzer	Germany	-0.1671	0.1341	-1.2461	55.6087	0.8957	0	0	0	0	0
Inoue	Japan	0.3231	0.2676	1.2074	13.9646	1.1196	0	0	0	0	0
Janerich	USA	-0.1595	0.1033	-1.5440	93.7129	1.1397	0	0	0	0	0
Jee	Korea	0.0251	0.1468	0.1710	46.4032	0.9132	0	1	0	3	0
Johnson	Canada	0.0668	0.1840	0.3630	29.5369	0.8225	1	1	0	2	0
Kabat 1	USA	-0.1367	0.2514	-0.5438	15.8223	1.1579	0	0	0	0	0
Kabat 2	USA	-0.0324	0.1060	-0.3057	88.9996	1.3646	0	0	0	2	0
Kalandidi	Greece	0.0833	0.0906	0.9194	121.8270	1.5584	0	0	0	0	0
Koo	China	0.0516	0.1397	0.3694	51.2398	1.1884	0	0	0	2	0
Lagarde	Sweden	0.0357	0.0887	0.4025	127.1021	0.8828	0	0	0	3	0
Lam T	China	0.2311	0.0898	2.5735	124.0073	1.0055	0	0	0	0	0
Lam W	China	0.3479	0.1723	2.0192	33.6844	0.9063	0	0	0	0	0
Layard	USA	-0.2271	0.1543	-1.4718	42.0018	1.1466	0	0	0	0	0
Lee	England	-0.0423	0.2795	-0.1513	12.8008	0.8544	0	0	0	0	0
Lee C-H	Taiwan	0.3075	0.1042	2.9511	92.1010	0.9015	0	0	0	2	0
Liu Q	China	0.3988	0.1762	2.2633	32.2098	1.0561	0	0	0	2	0
Liu Z	China	-0.1869	0.2634	-0.7096	14.4135	0.6106	0	0	0	0	0
Malats	7 Europe+Brazil	0.1841	0.1866	0.9866	28.7195	0.8717	0	0	0	0	0
McGhee	China	0.1377	0.1088	1.2656	84.4777	0.9025	0	0	0	2	0
Nishino	Japan	0.3044	0.2704	1.1257	13.6769	0.8950	1	1	1	0	0
Ohno	Japan	-0.0423	0.1122	-0.3770	79.4354	0.8114	0	0	0	0	0
Pershagen	Sweden	0.0595	0.1542	0.3859	42.0563	0.9097	0	0	0	0	0
Rapiti	India	0.0594	0.2467	0.2408	16.4309	0.8504	0	0	0	0	0
Rylander	Sweden	0.1329	0.2465	0.5391	16.4576	0.7290	0	0	0	0	0
Schwartz	USA	0.0085	0.0933	0.0911	114.8780	1.1194	0	0	0	0	0
Seow	Singapore	0.1007	0.0935	1.0770	114.3870	0.9054	0	0	0	0	0
Shen	China	-0.1317	0.1572	-0.8378	40.4664	1.0903	0	0	0	0	0
Shimizu	Japan	0.0006	0.1467	0.0041	46.4665	0.9053	0	0	0	0	0
Sobue	Japan	0.0259	0.1035	0.2502	93.3511	0.9064	0	0	0	2	0
Speize	USA	0.1430	0.3354	0.4264	8.8894	0.6375	0	0	0	0	0
Stockwell	USA	0.1729	0.1456	1.1875	47.1712	1.1381	0	0	0	2	0
Sun	China	0.0406	0.1050	0.3867	90.7029	0.8954	0	0	0	2	0
Svensson	Sweden	0.1293	0.2646	0.4887	14.2830	0.8673	0	0	0	0	0
Trichopoulos	Greece	0.2306	0.1063	2.1693	88.4980	1.3389	0	0	0	0	0

ALL STUDIES

EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY

GENG DATA REPLACED WITH PNL ESTIMATES

WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

BASIC DATA USED IN META-ANALYSES

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)

Confounder Differences based on Random-effects Regression

Study title	Country	Beta	St.Err. Beta	Z	Weight	ETSse	FRU	VEG	FAT	EDU	TEA
Vineis	Western Europe	0.0047	0.1826	0.0257	29.9915	0.8968	1	1	1	2	0
Wang L	China	0.0014	0.1462	0.0096	46.7849	0.6870	0	0	0	1	0
Wang S	China	0.4761	0.1962	2.4266	25.9778	0.8780	0	0	0	0	0
Wang T	China	0.1247	0.1180	1.0568	71.8184	1.0379	0	0	0	0	0
Wu	USA	0.0467	0.2079	0.2246	23.1361	1.1449	0	0	0	0	0
Wu-Williams	China	-0.2418	0.0569	-4.2496	308.8698	0.9047	0	0	0	2	0
Zaridze	Russia	0.0816	0.1061	0.7691	88.8320	0.8744	0	0	0	2	0
Zatloukal	Czech Republic	-0.4497	0.2312	-1.9451	18.7079	0.6900	0	0	0	2	0
Zheng	China	0.4721	0.2361	1.9996	17.9394	0.7567	0	0	0	0	0
Zhong	China	-0.0195	0.0896	-0.2176	124.5615	0.9343	1	0	0	1	0

NOTES: BETA SLOPE OF LOG RR ON NCIGS

SE BETA STANDARD ERROR OF BETA

Z RATIO OF BETA TO ITS STANDARD ERROR (APPROXIMATE NORMAL STATISTIC)

WEIGHT INVERSE OF THE VARIANCE OF BETA

ETSse STANDARD ERROR OF ETS EXPOSURE OVER THE CONTROL GROUPS

FRU = 1 DOSE-RESPONSE ANALYSIS ADJUSTED FOR FRUIT

VEG = 1 " " " " VEGETABLES

FAT = 1 " " " " FRUIT

EDU = 1 " " " " INCOME

= 2 " " " " EDUCATION

= 3 " " " " SOCIO-ECONOMIC STATUS

TEA = 0 NO ADJUSTMENT (OR MATCHING) FOR TEA

ALL STUDIES

EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY

GENG DATA REPLACED WITH PNL ESTIMATES

WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)
RANDOM-EFFECTS META-ANALYSES
Confounder Differences based on Random-effects Regression

Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	62.0449	(66)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0553	0.0191	++	1.0569	1.0181	1.0972

SEPARATE RANDOM-EFFECTS META-ANALYSES BY REGION

NORTH AMERICA AND EUROPE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	35.8186	(36)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0258	0.0171	N.S.	1.0262	0.9924	1.0611

ASIA
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	23.6519	(29)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0990	0.0360	+	1.1040	1.0289	1.1846

USA AND CANADA
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	19.7642	(20)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0247	0.0206	N.S.	1.0251	0.9846	1.0672

EUROPE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	14.8958	(15)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0333	0.0335	N.S.	1.0338	0.9682	1.1039

CHINA AND HONG KONG
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	14.6403	(17)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0973	0.0540	(+)	1.1022	0.9916	1.2252

REST OF ASIA

ALL STUDIES
EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY
GENG DATA REPLACED WITH PNL ESTIMATES
WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)
SEPARATE RANDOM-EFFECTS META-ANALYSES BY REGION
Confounder Differences based on Random-effects Regression

Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	8.8321	(11)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1066	0.0362	+	1.1124	1.0362	1.1943

SEPARATE RANDOM-EFFECTS META-ANALYSES BY YEAR OF PUBLICATION

PUBLISHED IN 1980S
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	20.8148	(24)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1100	0.0265	+++	1.1163	1.0598	1.1758

PUBLISHED IN 1990S
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	26.8287	(26)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0261	0.0297	N.S.	1.0264	0.9683	1.0880

PUBLISHED IN 2000S
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	14.0114	(14)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0446	0.0390	N.S.	1.0456	0.9687	1.1286

SEPARATE RANDOM-EFFECTS META-ANALYSES BY NUMBER OF LUNG CANCER CASES

<100 CASES
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	38.0646	(38)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0914	0.0307	++	1.0957	1.0317	1.1638

100-199 CASES
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)				
Model 1	12.7080	(13)				
	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0279	0.0258	N.S.	1.0283	0.9776	1.0817

200-399 CASES

ALL STUDIES
EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY
GENG DATA REPLACED WITH PNL ESTIMATES
WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)
SEPARATE RANDOM-EFFECTS META-ANALYSES BY NUMBER OF LUNG CANCER CASES
Confounder Differences based on Random-effects Regression

Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	7.0972	(8)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1260	0.0324	++	1.1342	1.0645	1.2086

400+ CASES
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	3.9090	(4)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	-0.0476	0.0544	N.S.	0.9536	0.8571	1.0609

SEPARATE RANDOM-EFFECTS META-ANALYSES BY DOSE-RESPONSE OR NOT

RESULTS FOR DOSE-RESPONSE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	21.8151	(22)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0796	0.0250	++	1.0829	1.0311	1.1372

NO RESULTS FOR DOSE-RESPONSE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	39.4212	(43)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0379	0.0265	N.S.	1.0386	0.9860	1.0940

SEPARATE RANDOM-EFFECTS META-ANALYSES BY AGE ADJUSTMENT OR NOT

ADJUSTED (OR MATCHED) FOR AGE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	48.2174	(54)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0258	0.0179	N.S.	1.0261	0.9907	1.0627

NOT ADJUSTED (OR MATCHED) FOR AGE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	11.9307	(11)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.2073	0.0536	++	1.2303	1.1077	1.3665

ALL STUDIES
EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY
GENG DATA REPLACED WITH PNL ESTIMATES
WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)
SEPARATE RANDOM-EFFECTS META-ANALYSES BY STUDY TYPE
Confounder Differences based on Random-effects Regression

CASE-CONTROL STUDIES
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	53.2727	(56)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0572	0.0219	+	1.0589	1.0143	1.1054

PROSPECTIVE STUDIES
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	5.9471	(9)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0468	0.0344	N.S.	1.0479	0.9796	1.1210

ALL STUDIES
EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY
GENG DATA REPLACED WITH PNL ESTIMATES
WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

BASIC DATA USED IN META-ANALYSES

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)

Confounder Differences based on Unweighted Regression

Study title	Country	RR	RRL	RRU	CA1	CA0	CO1	CO0	NCigs
Akiba	Japan	1.2319	0.5875	2.4353	23.1773	17.4034	67.1760	62.1369	1.0000
Akiba	Japan	1.3371	0.6329	2.8169	19.2175	17.4034	51.3138	62.1369	2.1350
Akiba	Japan	1.7079	0.4636	6.5633	3.8543	17.4034	8.0573	62.1369	3.8390
Boffetta 2	7 countries	0.9079	0.4540	1.7251	24.5313	26.6282	53.4843	52.7119	1.8175
Boffetta	7 countries	0.9325	0.7180	1.2216	166.9919	169.1164	317.9460	300.2652	1.3380
Boffetta	7 countries	0.4980	0.2970	0.8125	22.6028	169.1164	80.5914	300.2652	2.5880
Boffetta	7 countries	1.0702	0.6629	1.7331	31.5096	169.1164	52.2751	300.2652	4.3060
Brownson 1	USA	1.6073	0.3731	6.6014	3.6883	13.1133	6.1895	35.3697	2.3157
Brownson 2	USA	0.9080	0.7264	1.0896	250.3947	261.9399	710.8495	675.1881	2.3157
Buffler	USA	0.7250	0.3081	1.7219	30.7344	8.2720	156.0286	30.4465	2.3157
Butler	USA	1.8551	0.4408	7.8614	2.7970	5.4711	11864.1299	43052.0000	2.3157
Cardenas	USA	1.0808	0.4913	2.1615	8.9270	32.3142	11796.3240	46148.9986	1.0040
Cardenas	USA	1.1531	0.6727	2.1140	18.3621	32.3142	22741.3828	46148.9986	2.2670
Cardenas	USA	1.7612	0.9270	3.3371	13.1664	32.3142	10676.2064	46148.9986	4.3140
Chan	China	0.6763	0.3877	1.1722	31.7760	51.9629	65.7975	72.7655	1.8175
Choi	Korea	1.4974	0.8452	2.6365	46.3017	26.7043	85.6628	73.9803	1.8175
Correa	USA	1.9125	0.7484	4.8506	13.3395	8.2323	59.8137	70.5985	2.3157
De Waard	Netherlands	2.3826	0.7788	7.2777	17.9715	4.0747	118.8676	64.2135	1.8175
Du	China	0.6415	0.3104	1.3256	12.7768	29.4462	67.2710	99.4621	1.0000
Du	China	1.3143	0.7231	2.3887	28.3921	29.4462	72.9705	99.4621	2.6030
Enstrom	USA	0.8707	0.6113	1.2319	98.8728	45.3096	15104.7020	6026.6660	2.3157
Fontham	USA	1.2042	0.9709	1.4936	358.1355	189.0759	643.8771	409.3579	2.3157
Gao	China	1.1905	0.7942	1.7711	165.1814	49.7674	241.1621	86.5038	1.8175
Garfinkel 1	USA	1.2118	0.8206	1.8033	38.4333	69.5965	37884.0891	83128.8649	1.0040
Garfinkel 1	USA	0.9672	0.6682	1.3980	47.3436	69.5965	58467.9562	83128.8649	2.7520
Garfinkel 2	USA	0.8136	0.3876	1.7079	10.9351	45.3065	43.7756	147.5620	1.0040
Garfinkel 2	USA	1.0011	0.5938	1.6882	30.9723	45.3065	100.7610	147.5620	2.2670
Garfinkel 2	USA	1.7195	0.9790	3.0200	28.4386	45.3065	53.8661	147.5620	4.3140
Geng	China	1.3704	0.4796	3.9351	7.6113	15.1506	15.0373	41.0202	0.4850
Geng	China	1.8437	0.5673	5.9850	6.2052	15.1506	9.1124	41.0202	1.2730
Geng	China	2.4344	1.0968	5.4217	25.0537	15.1506	27.8640	41.0202	2.6030
Gorlova	USA	1.0978	0.6014	2.0047	64.1258	29.7697	65.6052	33.4361	2.3157
Hirayama	Japan	1.2756	0.8693	1.8803	96.9074	35.0964	42600.7661	19680.4437	0.8600
Hirayama	Japan	1.3393	0.8676	2.0721	47.7673	35.0964	20000.0332	19680.4437	2.6030
Hole	Scotland	1.2842	0.1185	14.0971	1.9594	1.0213	700.6571	469.0125	0.2080
Hole	Scotland	2.3531	0.2431	22.5586	2.7741	1.0213	541.4089	469.0125	2.4090
Humble 1	USA	1.6911	0.4604	6.5389	6.1690	7.7504	8.8006	18.6978	1.5820
Humble 1	USA	1.0497	0.2012	6.0270	2.5191	7.7504	5.7895	18.6978	3.3920
IARC: Kreuzer	Germany	0.7227	0.4517	1.1743	49.9242	47.8713	132.0740	91.5205	1.8175
Inoue	Japan	2.4794	0.2979	6.3715	6.4632	3.3340	11.4352	14.6253	1.0000
Inoue	Japan	2.7861	0.7574	13.7683	9.1300	3.3340	14.3752	14.6253	2.6030
Janerich	USA	0.6765	0.4239	1.0824	71.4397	71.2188	85.1997	57.4594	2.3157
Jee	Korea	1.8900	1.0395	3.6854	52.4079	11.7349	74535.0839	31542.4491	1.0000
Jee	Korea	1.2945	0.6041	2.8480	14.0204	11.7349	29111.4195	31542.4491	2.6030
Johnson	Canada	1.1185	0.5779	2.1438	36.8539	13.2282	383.0224	153.7733	1.8175
Kabat 1	USA	0.7133	0.2257	2.2120	12.2042	11.4069	14.7570	9.8379	2.3157
Kabat 2	USA	0.7658	0.3922	1.5036	17.5382	32.9721	56.1822	80.8879	1.6540
Kabat 2	USA	0.9120	0.4216	1.9789	12.1493	32.9721	32.6806	80.8879	3.6380
Kalandidi	Greece	1.4677	0.7545	2.8550	33.1549	27.3773	37.5775	45.5403	1.3380
Kalandidi	Greece	1.5885	0.7415	3.4032	21.1035	27.3773	22.0988	45.5403	2.9020
Kalandidi	Greece	1.2901	0.4439	3.7495	7.4655	27.3773	9.6262	45.5403	5.3350
Koo	China	2.2547	0.8903	5.7287	12.6839	25.2997	11.4027	51.2815	0.7080
Koo	China	1.6030	0.7462	3.4548	19.0899	25.2997	24.1382	51.2815	1.7670
Koo	China	1.0266	0.3968	2.6140	8.7465	25.2997	17.2691	51.2815	3.1830
Lagarde	Sweden	1.0476	0.7652	1.4393	80.7295	125.7321	286.1976	466.9540	1.8175
Lam T	China	2.1111	1.1040	4.0189	21.8945	88.3192	21.6337	184.2308	0.7080
Lam T	China	1.7075	1.0984	2.6490	53.9829	88.3192	65.9468	184.2308	1.7670

ALL STUDIES

EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY

GENG DATA REPLACED WITH PNL ESTIMATES

WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

BASIC DATA USED IN META-ANALYSES

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)

Confounder Differences based on Unweighted Regression

Study title	Country	RR	RRL	RRU	CA1	CA0	CO1	CO0	NCigs
Lam T	China	1.7918	0.9262	3.4883	19.0280	88.3192	22.1524	184.2308	3.1830
Lam W	China	1.8556	1.0063	3.4343	35.6166	23.9923	63.5828	79.4785	1.8175
Layard	USA	0.5736	0.2171	1.5155	4.9141	26.1559	333.1671	1017.2345	0.8190
Layard	USA	0.5385	0.2402	1.2072	7.7717	26.1559	561.2447	1017.2345	2.6640
Lee	England	0.9082	0.3360	2.4613	17.1393	8.8067	36.4866	17.0271	1.8175
Lee C-H	Taiwan	1.7232	1.1887	2.4972	138.7369	61.1003	188.6523	143.1670	1.8175
Liu Q	China	0.6722	0.2209	2.1127	5.6258	13.6550	19.9452	32.5422	1.0000
Liu Q	China	2.6098	1.0799	6.5694	19.3633	13.6550	17.6821	32.5422	2.6030
Liu Z	China	0.6981	0.2720	1.7769	33.5536	7.1009	132.5025	19.5746	1.8175
Malats	7 Europe+Brazil	1.3744	0.7055	2.6663	34.5893	47.3391	23.5632	44.3227	1.8175
McGhee	China	1.2626	0.8600	1.8664	77.0784	79.3593	131.0945	170.4175	1.8175
Nishino	Japan	1.7428	0.6487	4.4539	9.2232	7.5074	21307.7695	30227.2523	1.8175
Ohno	Japan	0.9084	0.6086	1.3535	131.7526	54.6193	233.2077	87.8219	1.8175
Pershagen	Sweden	1.0943	0.6384	1.9151	34.4419	29.0045	138.6757	127.7992	1.8175
Rapiti	India	1.0940	0.4558	2.6439	12.1663	24.3595	18.7083	40.9802	1.8175
Rylander	Sweden	1.2509	0.5205	3.0132	7.6819	24.5410	42.0108	167.8887	1.8175
Schwartz	USA	1.0010	0.6552	1.5289	119.2632	69.1432	114.0605	66.1961	2.3157
Seow	Singapore	1.1801	0.8459	1.6463	86.9413	88.8992	299.7283	361.6720	1.8175
Shen	China	0.6338	0.2048	2.0185	10.4266	14.8139	11.9012	10.7172	0.4850
Shen	China	0.9827	0.2995	3.1635	11.7434	14.8139	8.6449	10.7172	1.2730
Shen	China	0.6114	0.2446	1.5372	31.2151	14.8139	36.9367	10.7172	2.6030
Shimizu	Japan	0.9824	0.5822	1.6556	48.9778	39.4504	89.4063	70.7481	1.8175
Sobue	Japan	1.0290	0.7103	1.4843	74.7851	61.8216	374.7198	318.7490	1.8175
Speize	USA	1.3681	0.2736	5.7459	26.7333	1.7671	199042.3290	17999.9999	2.3157
Stockwell	USA	1.4687	0.7344	2.7539	45.8700	20.4407	58.8241	38.5003	2.3157
Sun	China	1.0570	0.7289	1.5399	138.2189	90.3851	135.1751	93.4290	1.8175
Svensson	Sweden	1.2434	0.4846	3.1907	17.1726	7.2691	81.9516	43.1324	1.8175
Trichopoulos	Greece	0.5536	0.1193	2.5694	1.9980	25.2287	15.6037	109.0797	0.7080
Trichopoulos	Greece	2.3461	1.1855	4.6430	21.2811	25.2287	39.2191	109.0797	1.7670
Trichopoulos	Greece	3.6253	1.1990	10.9617	6.8119	25.2287	8.1241	109.0797	2.5880
Trichopoulos	Greece	1.6051	0.5994	4.2978	6.7308	25.2287	18.1304	109.0797	4.3060
Vineis	Western Europe	1.0118	0.5300	1.9466	21.7912	15.5442	29722.1408	21452.3441	1.8175
Wang L	China	0.9823	0.5722	1.6213	121.5159	25.6953	248.0508	51.5239	1.8175
Wang S	China	2.3456	1.1682	4.7283	64.3204	15.5387	58.4360	33.1129	1.8175
Wang T	China	0.3413	0.1073	1.1313	4.1476	45.1031	12.9702	48.1451	0.4850
Wang T	China	1.2641	0.6929	2.2942	43.3947	45.1031	36.6430	48.1451	1.2730
Wang T	China	1.2240	0.6644	2.2468	40.0045	45.1031	34.8891	48.1451	2.6030
Wu	USA	1.0943	0.4559	3.0093	17.0855	10.4089	32.4048	21.6030	2.3157
Wu-Williams	China	0.6302	0.5402	0.8103	279.1820	362.6810	509.4886	417.1342	1.8175
Zaridze	Russia	1.5851	1.0408	2.4063	60.4339	83.0719	85.1908	185.6176	0.7080
Zaridze	Russia	1.1625	0.7233	1.8772	36.4004	83.0719	69.9666	185.6176	2.2930
Zatloukal	Czech Republic	0.4319	0.1890	0.9808	6.4934	71.1961	143.3556	678.8582	1.8175
Zheng	China	2.3248	1.0039	5.3988	58.1774	7.1246	169.4385	48.2403	1.8175
Zhong	China	1.3772	0.8854	2.1642	79.8191	65.5800	77.7903	88.0224	0.7080
Zhong	China	0.8639	0.5759	1.3438	81.7234	65.5800	126.9717	88.0224	1.7670
Zhong	China	1.3005	0.6502	2.4151	23.0423	65.5800	23.7821	88.0224	3.1830

NOTES: RR,RL,RU RELATIVE RISKS AND LOWER AND UPPER CONFIDENCE INTERVALS

CA1,CA0 NUMBERS (OR PSEUDO-NUMBERS) OF EXPOSED AND UNEXPOSED CASES

CO1,CO0 NUMBERS (OR PSEUDO-NUMBERS) OF EXPOSED AND UNEXPOSED CONTROLS

NCIGS MIDPOINT OF NUMBER OF CIGARETTES SMOKED BY HUSBAND (IN UNITS OF 10)

ALL STUDIES
EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY
GENG DATA REPLACED WITH PNL ESTIMATES
WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

BASIC DATA USED IN META-ANALYSES

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)

Confounder Differences based on Unweighted Regression

Study title	Country	Beta	St.Err. Beta	Z	Weight	ETSse	FRU	VEG	FAT	EDU	TEA
Akiba	Japan	0.1328	0.1405	0.9452	50.6579	0.9896	0	0	0	0	0
Boffetta 2	7 countries	-0.0531	0.1874	-0.2834	28.4748	0.9130	0	0	0	0	0
Boffetta	7 countries	-0.0426	0.0514	-0.8288	378.5069	1.1768	0	0	0	0	0
Brownson 1	USA	0.2049	0.3165	0.6474	9.9828	0.8345	0	0	0	1	0
Brownson 2	USA	-0.0417	0.0447	-0.9329	500.4780	1.1579	0	0	0	0	0
Buffler	USA	-0.1389	0.1896	-0.7326	27.8178	0.8581	0	0	0	0	0
Butler	USA	0.2669	0.3174	0.8409	9.9263	0.9215	0	0	0	0	0
Cardenas	USA	0.1206	0.0725	1.6634	190.2497	1.4556	0	1	1	2	0
Chan	China	-0.2152	0.1553	-1.3857	41.4627	0.9109	0	0	0	0	0
Choi	Korea	0.2221	0.1597	1.3907	39.2094	0.9091	0	0	0	0	0
Correa	USA	0.2800	0.2059	1.3599	23.5878	1.1582	0	0	0	0	0
De Waard	Netherlands	0.4777	0.3137	1.5228	10.1618	0.8696	0	0	0	0	0
Du	China	0.1200	0.1167	1.0283	73.4274	1.0879	0	0	0	0	0
Enstrom	USA	-0.0598	0.0772	-0.7746	167.7897	1.0456	1	0	0	2	0
Fontham	USA	0.0803	0.0475	1.6905	443.2133	1.1293	1	1	0	2	0
Gao	China	0.0960	0.1126	0.8526	78.8721	0.8022	0	0	0	2	0
Garfinkel 1	USA	-0.0152	0.0684	-0.2222	213.7410	1.1963	0	0	0	0	0
Garfinkel 2	USA	0.1168	0.0647	1.8053	238.8864	1.5345	0	0	0	0	0
Geng	China	0.3289	0.1501	2.1912	44.3852	1.0478	0	0	0	0	0
Gorlova	USA	0.0403	0.1326	0.3039	56.8739	1.1005	0	0	0	1	0
Hirayama	Japan	0.0849	0.0800	1.0613	156.2500	0.8998	0	0	0	0	0
Hole	Scotland	0.3075	0.3643	0.8441	7.5350	1.0530	0	0	0	0	0
Humble 1	USA	0.0695	0.2448	0.2839	16.6870	1.2885	0	0	0	0	0
IARC: Kreuzer	Germany	-0.1787	0.1341	-1.3326	55.6087	0.8957	0	0	0	0	0
Inoue	Japan	0.3172	0.2679	1.1840	13.9333	1.1196	0	0	0	0	0
Janerich	USA	-0.1688	0.1033	-1.6341	93.7129	1.1397	0	0	0	0	0
Jee	Korea	0.0153	0.1469	0.1042	46.3400	0.9132	0	1	0	3	0
Johnson	Canada	0.0616	0.1840	0.3348	29.5369	0.8225	1	1	0	2	0
Kabat 1	USA	-0.1459	0.2514	-0.5804	15.8223	1.1579	0	0	0	0	0
Kabat 2	USA	-0.0410	0.1059	-0.3872	89.1678	1.3646	0	0	0	2	0
Kalandidi	Greece	0.0764	0.0906	0.8433	121.8270	1.5584	0	0	0	0	0
Koo	China	0.0432	0.1397	0.3092	51.2398	1.1884	0	0	0	2	0
Lagarde	Sweden	0.0256	0.0887	0.2886	127.1021	0.8828	0	0	0	3	0
Lam T	China	0.2230	0.0898	2.4833	124.0073	1.0055	0	0	0	0	0
Lam W	China	0.3401	0.1723	1.9739	33.6844	0.9063	0	0	0	0	0
Layard	USA	-0.2398	0.1543	-1.5541	42.0018	1.1466	0	0	0	0	0
Lee	England	-0.0530	0.2795	-0.1896	12.8008	0.8544	0	0	0	0	0
Lee C-H	Taiwan	0.2994	0.1042	2.8733	92.1010	0.9015	0	0	0	2	0
Liu Q	China	0.3918	0.1762	2.2236	32.2098	1.0561	0	0	0	2	0
Liu Z	China	-0.1978	0.2634	-0.7509	14.4135	0.6106	0	0	0	0	0
Malats	7 Europe+Brazil	0.1750	0.1866	0.9378	28.7195	0.8717	0	0	0	0	0
McGhee	China	0.1283	0.1088	1.1792	84.4777	0.9025	0	0	0	2	0
Nishino	Japan	0.3056	0.2704	1.1302	13.6769	0.8950	1	1	1	0	0
Ohno	Japan	-0.0529	0.1122	-0.4715	79.4354	0.8114	0	0	0	0	0
Pershagen	Sweden	0.0496	0.1542	0.3217	42.0563	0.9097	0	0	0	0	0
Rapiti	India	0.0494	0.2467	0.2002	16.4309	0.8504	0	0	0	0	0
Rylander	Sweden	0.1232	0.2465	0.4998	16.4576	0.7290	0	0	0	0	0
Schwartz	USA	0.0005	0.0933	0.0054	114.8780	1.1194	0	0	0	0	0
Seow	Singapore	0.0911	0.0935	0.9743	114.3870	0.9054	0	0	0	0	0
Shen	China	-0.1426	0.1574	-0.9060	40.3637	1.0903	0	0	0	0	0
Shimizu	Japan	-0.0098	0.1467	-0.0668	46.4665	0.9053	0	0	0	0	0
Sobue	Japan	0.0157	0.1035	0.1517	93.3511	0.9064	0	0	0	2	0
Speize	USA	0.1353	0.3354	0.4034	8.8894	0.6375	0	0	0	0	0
Stockwell	USA	0.1660	0.1456	1.1401	47.1712	1.1381	0	0	0	2	0
Sun	China	0.0305	0.1050	0.2905	90.7029	0.8954	0	0	0	2	0
Svensson	Sweden	0.1199	0.2646	0.4531	14.2830	0.8673	0	0	0	0	0
Trichopoulos	Greece	0.2247	0.1062	2.1158	88.6647	1.3389	0	0	0	0	0

ALL STUDIES

EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY

GENG DATA REPLACED WITH PNL ESTIMATES

WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

BASIC DATA USED IN META-ANALYSES

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)

Confounder Differences based on Unweighted Regression

Study title	Country	Beta	St.Err. Beta	Z	Weight	ETSse	FRU	VEG	FAT	EDU	TEA
Vineis	Western Europe	0.0065	0.1826	0.0356	29.9915	0.8968	1	1	1	2	0
Wang L	China	-0.0098	0.1462	-0.0670	46.7849	0.6870	0	0	0	1	0
Wang S	China	0.4691	0.1962	2.3909	25.9778	0.8780	0	0	0	0	0
Wang T	China	0.1147	0.1180	0.9720	71.8184	1.0379	0	0	0	0	0
Wu	USA	0.0389	0.2079	0.1871	23.1361	1.1449	0	0	0	0	0
Wu-Williams	China	-0.2540	0.0569	-4.4640	308.8698	0.9047	0	0	0	2	0
Zaridze	Russia	0.0694	0.1061	0.6541	88.8320	0.8744	0	0	0	2	0
Zatloukal	Czech Republic	-0.4619	0.2312	-1.9978	18.7079	0.6900	0	0	0	2	0
Zheng	China	0.4642	0.2361	1.9661	17.9394	0.7567	0	0	0	0	0
Zhong	China	-0.0276	0.0897	-0.3077	124.2840	0.9343	1	0	0	1	0

NOTES: BETA SLOPE OF LOG RR ON NCIGS

SE BETA STANDARD ERROR OF BETA

Z RATIO OF BETA TO ITS STANDARD ERROR (APPROXIMATE NORMAL STATISTIC)

WEIGHT INVERSE OF THE VARIANCE OF BETA

ETSse STANDARD ERROR OF ETS EXPOSURE OVER THE CONTROL GROUPS

FRU = 1 DOSE-RESPONSE ANALYSIS ADJUSTED FOR FRUIT

VEG = 1 " " " " VEGETABLES

FAT = 1 " " " " FRUIT

EDU = 1 " " " " INCOME

= 2 " " " " EDUCATION

= 3 " " " " SOCIO-ECONOMIC STATUS

TEA = 0 NO ADJUSTMENT (OR MATCHING) FOR TEA

ALL STUDIES

EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY

GENG DATA REPLACED WITH PNL ESTIMATES

WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)
RANDOM-EFFECTS META-ANALYSES
Confounder Differences based on Unweighted Regression

Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	62.0028	(66)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0471	0.0193	+	1.0482	1.0094	1.0886

SEPARATE RANDOM-EFFECTS META-ANALYSES BY REGION

NORTH AMERICA AND EUROPE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	35.7082	(36)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0188	0.0176	N.S.	1.0190	0.9844	1.0547

ASIA
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	23.6997	(29)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0898	0.0362	+	1.0939	1.0190	1.1744

USA AND CANADA
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	19.7489	(20)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0182	0.0212	N.S.	1.0183	0.9769	1.0616

EUROPE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	14.8812	(15)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0249	0.0342	N.S.	1.0252	0.9588	1.0963

CHINA AND HONG KONG
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	14.6485	(17)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0882	0.0543	N.S.	1.0922	0.9818	1.2150

REST OF ASIA

ALL STUDIES
EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY
GENG DATA REPLACED WITH PNL ESTIMATES
WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)
SEPARATE RANDOM-EFFECTS META-ANALYSES BY REGION
Confounder Differences based on Unweighted Regression

Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	9.0275	(11)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0966	0.0362	+	1.1014	1.0259	1.1824

SEPARATE RANDOM-EFFECTS META-ANALYSES BY YEAR OF PUBLICATION

PUBLISHED IN 1980S
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	21.1352	(24)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1014	0.0265	+++	1.1067	1.0507	1.1656

PUBLISHED IN 1990S
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	26.7848	(26)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0181	0.0301	N.S.	1.0182	0.9598	1.0802

PUBLISHED IN 2000S
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	14.0699	(14)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0363	0.0391	N.S.	1.0370	0.9606	1.1196

SEPARATE RANDOM-EFFECTS META-ANALYSES BY NUMBER OF LUNG CANCER CASES

<100 CASES
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	38.0820	(38)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0832	0.0310	+	1.0868	1.0227	1.1549

100-199 CASES
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	12.7181	(13)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0194	0.0258	N.S.	1.0196	0.9693	1.0725

200-399 CASES

ALL STUDIES
EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY
GENG DATA REPLACED WITH PNL ESTIMATES
WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)
SEPARATE RANDOM-EFFECTS META-ANALYSES BY NUMBER OF LUNG CANCER CASES
Confounder Differences based on Unweighted Regression

Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	7.2609	(8)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1179	0.0324	++	1.1251	1.0559	1.1989

400+ CASES
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	3.9020	(4)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	-0.0563	0.0557	N.S.	0.9453	0.8475	1.0544

SEPARATE RANDOM-EFFECTS META-ANALYSES BY DOSE-RESPONSE OR NOT

RESULTS FOR DOSE-RESPONSE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	21.8047	(22)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0716	0.0253	++	1.0742	1.0222	1.1290

NO RESULTS FOR DOSE-RESPONSE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	39.3691	(43)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0297	0.0268	N.S.	1.0302	0.9775	1.0856

SEPARATE RANDOM-EFFECTS META-ANALYSES BY AGE ADJUSTMENT OR NOT

ADJUSTED (OR MATCHED) FOR AGE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	47.9096	(54)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0176	0.0182	N.S.	1.0178	0.9822	1.0547

NOT ADJUSTED (OR MATCHED) FOR AGE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	11.9522	(11)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1994	0.0540	++	1.2207	1.0981	1.3569

ALL STUDIES
EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY
GENG DATA REPLACED WITH PNL ESTIMATES
WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)
SEPARATE RANDOM-EFFECTS META-ANALYSES BY STUDY TYPE
Confounder Differences based on Unweighted Regression

CASE-CONTROL STUDIES
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	53.2778	(56)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0485	0.0221	+	1.0497	1.0052	1.0963

PROSPECTIVE STUDIES
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	6.0309	(9)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0405	0.0344	N.S.	1.0413	0.9734	1.1140

ALL STUDIES
EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY
GENG DATA REPLACED WITH PNL ESTIMATES
WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

BASIC DATA USED IN META-ANALYSES

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)

Confounder Differences based on Weighted Regression

Study title	Country	RR	RRL	RRU	CA1	CA0	CO1	CO0	NCigs
Akiba	Japan	1.2716	0.6064	2.5138	23.7021	16.9439	69.1349	62.8447	1.0000
Akiba	Japan	1.4309	0.6773	3.0144	19.7554	16.9439	51.2086	62.8447	2.1350
Akiba	Japan	1.9292	0.5236	7.4136	3.9775	16.9439	7.6470	62.8447	3.8390
Boffetta 2	7 countries	0.9624	0.4812	1.8286	25.2516	25.8553	53.4315	52.6517	1.8175
Boffetta	7 countries	0.9729	0.7491	1.2745	171.2770	163.3639	323.7678	300.4311	1.3380
Boffetta	7 countries	0.5405	0.3224	0.8818	22.9233	163.3639	78.0003	300.4311	2.5880
Boffetta	7 countries	1.2265	0.7597	1.9862	32.9043	163.3639	49.3379	300.4311	4.3060
Brownson 1	USA	1.6702	0.3877	6.8599	3.7483	12.8236	6.1054	34.8882	2.3157
Brownson 2	USA	0.9624	0.7699	1.1549	257.7779	254.3881	710.6236	674.9113	2.3157
Buffler	USA	0.7694	0.3270	1.8274	31.9940	8.1137	160.4382	31.3056	2.3157
Butler	USA	1.9496	0.4633	8.2617	2.7375	5.7141	11176.1692	45482.2051	2.3157
Cardenas	USA	1.0865	0.4939	2.1730	8.9811	31.6243	11815.4032	45202.2712	1.0040
Cardenas	USA	1.1669	0.6807	2.1394	18.5924	31.6243	22773.1965	45202.2712	2.2670
Cardenas	USA	1.8017	0.9482	3.4137	13.2842	31.6243	10539.0602	45202.2712	4.3140
Chan	China	0.7205	0.4131	1.2489	32.7317	50.2503	65.1984	72.1180	1.8175
Choi	Korea	1.5735	0.8881	2.7705	47.5938	26.1249	86.4967	74.7078	1.8175
Correa	USA	2.0012	0.7831	5.0755	13.7009	8.0810	60.3953	71.2867	2.3157
De Waard	Netherlands	2.4867	0.8128	7.5957	18.5718	4.0353	121.8822	65.8552	1.8175
Du	China	0.6598	0.3193	1.3634	12.9067	28.5795	68.2583	99.7310	1.0000
Du	China	1.4141	0.7780	2.5701	29.3228	28.5795	72.3623	99.7310	2.6030
Enstrom	USA	0.9153	0.6426	1.2950	102.3603	44.6218	15397.9997	6143.6945	2.3157
Fontham	USA	1.2607	1.0164	1.5637	367.3361	185.2560	650.2174	413.4149	2.3157
Gao	China	1.2567	0.8384	1.8696	170.3484	48.6223	245.6846	88.1298	1.8175
Garfinkel 1	USA	1.2465	0.8441	1.8551	39.2090	67.1921	38802.4117	82888.9390	1.0040
Garfinkel 1	USA	1.0452	0.7221	1.5108	48.5239	67.1921	57271.4270	82888.9390	2.7520
Garfinkel 2	USA	0.8297	0.3953	1.7417	10.9728	43.9390	44.4808	147.7767	1.0040
Garfinkel 2	USA	1.0464	0.6206	1.7644	31.5672	43.9390	101.4627	147.7767	2.2670
Garfinkel 2	USA	1.8704	1.0649	3.2849	29.3325	43.9390	52.7450	147.7767	4.3140
Geng	China	1.3870	0.4854	3.9826	7.6104	14.7783	15.3728	41.4037	0.4850
Geng	China	1.9027	0.5855	6.1766	6.2316	14.7783	9.1755	41.4037	1.2730
Geng	China	2.5964	1.1698	5.7825	25.9090	14.7783	27.9568	41.4037	2.6030
Gorlova	USA	1.1431	0.6262	2.0875	65.4588	29.1841	66.1274	33.7022	2.3157
Hirayama	Japan	1.3194	0.8991	1.9449	101.4881	34.5352	45078.0995	20238.6466	0.8600
Hirayama	Japan	1.4833	0.9609	2.2950	48.8468	34.5352	19298.2667	20238.6466	2.6030
Hole	Scotland	1.2929	0.1193	14.1916	1.9955	1.0119	745.8631	489.0005	0.2080
Hole	Scotland	2.5425	0.2627	24.3745	2.8464	1.0119	540.9916	489.0005	2.4090
Humble 1	USA	1.7549	0.4777	6.7857	6.2924	7.5034	8.9004	18.6255	1.5820
Humble 1	USA	1.1365	0.2178	6.5252	2.5791	7.5034	5.6333	18.6255	3.3920
IARC: Kreuzer	Germany	0.7689	0.4806	1.2494	51.5202	46.4289	132.2822	91.6591	1.8175
Inoue	Japan	2.5357	0.3047	6.5162	6.5488	3.2741	11.7401	14.8837	1.0000
Inoue	Japan	2.9538	0.8030	14.5971	9.4382	3.2741	14.5250	14.8837	2.6030
Janerich	USA	0.7206	0.4515	1.1529	73.7279	69.0069	85.2447	57.4906	2.3157
Jee	Korea	1.9590	1.0775	3.8201	55.1323	11.6068	79204.2726	32665.7680	1.0000
Jee	Korea	1.4213	0.6633	3.1269	14.2079	11.6068	28133.3739	32665.7680	2.6030
Johnson	Canada	1.1723	0.6057	2.2469	38.0890	13.0441	391.0596	157.0000	1.8175
Kabat 1	USA	0.7592	0.2402	2.3544	12.5909	11.0566	14.7797	9.8532	2.3157
Kabat 2	USA	0.7982	0.4088	1.5671	17.8854	31.7847	56.5770	80.2521	1.6540
Kabat 2	USA	0.9989	0.4618	2.1675	12.4970	31.7847	31.5873	80.2521	3.6380
Kalandidi	Greece	1.5114	0.7769	2.9400	33.6516	26.5485	38.4057	45.7930	1.3380
Kalandidi	Greece	1.6929	0.7902	3.6268	21.6275	26.5485	22.0361	45.7930	2.9020
Kalandidi	Greece	1.4502	0.4990	4.2149	7.7729	26.5485	9.2453	45.7930	5.3350
Koo	China	2.2994	0.9079	5.8422	12.7089	24.4198	11.5769	51.1491	0.7080
Koo	China	1.6835	0.7837	3.6282	19.5343	24.4198	24.3041	51.1491	1.7670
Koo	China	1.1213	0.4334	2.8551	8.9910	24.4198	16.7950	51.1491	3.1830
Lagarde	Sweden	1.1077	0.8091	1.5219	82.7456	121.8814	283.6545	462.8046	1.8175
Lam T	China	2.1509	1.1248	4.0945	21.9109	85.7387	21.7898	183.3936	0.7080
Lam T	China	1.7889	1.1507	2.7752	55.1081	85.7387	65.8917	183.3936	1.7670

ALL STUDIES

EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY

GENG DATA REPLACED WITH PNL ESTIMATES

WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

BASIC DATA USED IN META-ANALYSES

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)

Confounder Differences based on Weighted Regression

Study title	Country	RR	RRL	RRU	CA1	CA0	CO1	CO0	NCigs
Lam T	China	1.9485	1.0072	3.7935	19.6338	85.7387	21.5529	183.3936	3.1830
Lam W	China	1.9428	1.0536	3.5956	36.5191	23.4947	64.0121	80.0092	1.8175
Layard	USA	0.5903	0.2234	1.5597	4.9663	24.7822	334.7831	986.2429	0.8190
Layard	USA	0.5913	0.2637	1.3254	7.9098	24.7822	532.3830	986.2429	2.6640
Lee	England	0.9624	0.3561	2.6082	17.7011	8.5830	36.9620	17.2489	1.8175
Lee C-H	Taiwan	1.8066	1.2463	2.6181	142.4831	59.8525	191.0108	144.9568	1.8175
Liu Q	China	0.6875	0.2259	2.1606	5.6533	13.3412	20.2029	32.7766	1.0000
Liu Q	China	2.7669	1.1449	6.9649	19.9279	13.3412	17.6947	32.7766	2.6030
Liu Z	China	0.7406	0.2885	1.8852	34.8976	6.9609	136.4285	20.1539	1.8175
Malats 7	Europe+Brazil	1.4470	0.7428	2.8071	35.5082	46.1590	23.4880	44.1812	1.8175
McGhee	China	1.3307	0.9064	1.9672	79.1246	77.3043	131.0817	170.4230	1.8175
Nishino	Japan	1.7588	0.6547	4.4946	9.2697	7.4768	21328.1071	30256.1033	1.8175
Ohno	Japan	0.9624	0.6448	1.4340	136.0405	53.2275	236.8327	89.1839	1.8175
Pershagen	Sweden	1.1562	0.6744	2.0233	35.4601	28.2663	139.2882	128.3730	1.8175
Rapiti	India	1.1561	0.4817	2.7938	12.4819	23.6505	18.5069	40.5388	1.8175
Rylander	Sweden	1.3203	0.5493	3.1802	7.8158	23.6575	41.0340	163.9839	1.8175
Schwartz	USA	1.0592	0.6933	1.6178	122.6661	67.2068	114.9490	66.7098	2.3157
Seow	Singapore	1.2452	0.8926	1.7371	89.3106	86.5470	299.7573	361.7071	1.8175
Shen	China	0.6437	0.2080	2.0498	10.3573	14.2816	12.2101	10.8371	0.4850
Shen	China	1.0234	0.3119	3.2942	11.7817	14.2816	8.7361	10.8371	1.2730
Shen	China	0.6642	0.2657	1.6699	32.5424	14.2816	37.1800	10.8371	2.6030
Shimizu	Japan	1.0399	0.6162	1.7524	50.4434	38.3814	89.8114	71.0614	1.8175
Sobue	Japan	1.0883	0.7512	1.5699	77.0687	60.2362	376.6351	320.3782	1.8175
Speize	USA	1.4449	0.2890	6.0687	28.2213	1.7610	199635.6750	18000.0001	2.3157
Stockwell	USA	1.5442	0.7721	2.8954	47.1472	19.9846	59.5501	38.9787	2.3157
Sun	China	1.1174	0.7706	1.6279	142.1228	87.9096	136.0241	94.0144	1.8175
Svensson	Sweden	1.3112	0.5110	3.3647	17.7708	7.1334	83.5020	43.9485	1.8175
Trichopoulos	Greece	0.5616	0.1210	2.6065	1.9990	24.5165	15.8256	109.0024	0.7080
Trichopoulos	Greece	2.4315	1.2286	4.8120	21.6863	24.5165	39.6544	109.0024	1.7670
Trichopoulos	Greece	3.8202	1.2634	11.5509	6.9185	24.5165	8.0519	109.0024	2.5880
Trichopoulos	Greece	1.7512	0.6540	4.6890	6.8811	24.5165	17.4698	109.0024	4.3060
Vineis	Western Europe	1.0236	0.5362	1.9693	21.9395	15.4697	29780.8357	21494.7079	1.8175
Wang L	China	1.0237	0.5964	1.6897	124.6293	25.2869	252.6088	52.4707	1.8175
Wang S	China	2.4481	1.2192	4.9348	65.9373	15.2630	59.4155	33.6691	1.8175
Wang T	China	0.3464	0.1089	1.1482	4.1342	43.6881	13.2108	48.3635	0.4850
Wang T	China	1.3142	0.7204	2.3850	43.9974	43.6881	37.0621	48.3635	1.2730
Wang T	China	1.3251	0.7193	2.4325	41.4250	43.6881	34.6080	48.3635	2.6030
Wu	USA	1.1562	0.4817	3.1795	17.6036	10.1506	32.7104	21.8071	2.3157
Wu-Williams	China	0.6722	0.5762	0.8643	288.1330	350.9405	507.2742	415.3212	1.8175
Zaridze	Russia	1.6294	1.0699	2.4735	61.3121	80.3639	86.5852	184.9171	0.7080
Zaridze	Russia	1.2710	0.7908	2.0524	37.5520	80.3639	67.9855	184.9171	2.2930
Zatloukal	Czech Republic	0.4608	0.2016	1.0464	6.5469	67.2818	136.2314	645.1217	1.8175
Zheng	China	2.4351	1.0515	5.6549	60.2875	7.0534	174.6988	49.7712	1.8175
Zhong	China	1.4006	0.9004	2.2010	80.2743	64.1994	78.9996	88.4904	0.7080
Zhong	China	0.9010	0.6007	1.4015	83.3312	64.1994	127.4851	88.4904	1.7670
Zhong	China	1.4027	0.7014	2.6051	23.6875	64.1994	23.2760	88.4904	3.1830

NOTES: RR,RL,RU RELATIVE RISKS AND LOWER AND UPPER CONFIDENCE INTERVALS

CA1,CA0 NUMBERS (OR PSEUDO-NUMBERS) OF EXPOSED AND UNEXPOSED CASES

CO1,CO0 NUMBERS (OR PSEUDO-NUMBERS) OF EXPOSED AND UNEXPOSED CONTROLS

NCIGS MIDPOINT OF NUMBER OF CIGARETTES SMOKED BY HUSBAND (IN UNITS OF 10)

ALL STUDIES
EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY
GENG DATA REPLACED WITH PNL ESTIMATES
WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

BASIC DATA USED IN META-ANALYSES

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)

Confounder Differences based on Weighted Regression

Study title	Country	Beta	St.Err. Beta	Z	Weight	ETSse	FRU	VEG	FAT	EDU	TEA
Akiba	Japan	0.1641	0.1406	1.1671	50.5859	0.9896	0	0	0	0	0
Boffetta 2	7 countries	-0.0211	0.1874	-0.1126	28.4748	0.9130	0	0	0	0	0
Boffetta	7 countries	-0.0107	0.0515	-0.2078	377.0384	1.1768	0	0	0	0	0
Brownson 1	USA	0.2215	0.3165	0.6998	9.9828	0.8345	0	0	0	1	0
Brownson 2	USA	-0.0165	0.0447	-0.3691	500.4780	1.1579	0	0	0	0	0
Buffler	USA	-0.1132	0.1896	-0.5970	27.8178	0.8581	0	0	0	0	0
Butler	USA	0.2883	0.3174	0.9083	9.9263	0.9215	0	0	0	0	0
Cardenas	USA	0.1260	0.0726	1.7355	189.7260	1.4556	0	1	1	2	0
Chan	China	-0.1804	0.1553	-1.1616	41.4627	0.9109	0	0	0	0	0
Choi	Korea	0.2494	0.1597	1.5617	39.2094	0.9091	0	0	0	0	0
Correa	USA	0.2996	0.2059	1.4551	23.5878	1.1582	0	0	0	0	0
De Waard	Netherlands	0.5012	0.3137	1.5977	10.1618	0.8696	0	0	0	0	0
Du	China	0.1500	0.1166	1.2864	73.5534	1.0879	0	0	0	0	0
Enstrom	USA	-0.0382	0.0772	-0.4948	167.7897	1.0456	1	0	0	2	0
Fontham	USA	0.1000	0.0475	2.1053	443.2133	1.1293	1	1	0	2	0
Gao	China	0.1257	0.1126	1.1163	78.8721	0.8022	0	0	0	2	0
Garfinkel 1	USA	0.0118	0.0683	0.1728	214.3673	1.1963	0	0	0	0	0
Garfinkel 2	USA	0.1371	0.0647	2.1190	238.8864	1.5345	0	0	0	0	0
Geng	China	0.3531	0.1497	2.3587	44.6228	1.0478	0	0	0	0	0
Gorlova	USA	0.0578	0.1326	0.4359	56.8739	1.1005	0	0	0	1	0
Hirayama	Japan	0.1227	0.0795	1.5434	158.2216	0.8998	0	0	0	0	0
Hole	Scotland	0.3390	0.3614	0.9380	7.6564	1.0530	0	0	0	0	0
Humble 1	USA	0.0920	0.2453	0.3751	16.6190	1.2885	0	0	0	0	0
IARC: Kreuzer	Germany	-0.1446	0.1341	-1.0783	55.6087	0.8957	0	0	0	0	0
Inoue	Japan	0.3369	0.2668	1.2627	14.0484	1.1196	0	0	0	0	0
Janerich	USA	-0.1415	0.1033	-1.3698	93.7129	1.1397	0	0	0	0	0
Jee	Korea	0.0470	0.1465	0.3208	46.5934	0.9132	0	1	0	3	0
Johnson	Canada	0.0875	0.1840	0.4755	29.5369	0.8225	1	1	0	2	0
Kabat 1	USA	-0.1190	0.2514	-0.4733	15.8223	1.1579	0	0	0	0	0
Kabat 2	USA	-0.0154	0.1061	-0.1451	88.8320	1.3646	0	0	0	2	0
Kalandidi	Greece	0.0977	0.0907	1.0772	121.5585	1.5584	0	0	0	0	0
Koo	China	0.0687	0.1399	0.4911	51.0934	1.1884	0	0	0	2	0
Lagarde	Sweden	0.0563	0.0887	0.6347	127.1021	0.8828	0	0	0	3	0
Lam T	China	0.2486	0.0900	2.7622	123.4568	1.0055	0	0	0	0	0
Lam W	China	0.3654	0.1723	2.1207	33.6844	0.9063	0	0	0	0	0
Layard	USA	-0.2035	0.1544	-1.3180	41.9474	1.1466	0	0	0	0	0
Lee	England	-0.0211	0.2795	-0.0755	12.8008	0.8544	0	0	0	0	0
Lee C-H	Taiwan	0.3254	0.1042	3.1228	92.1010	0.9015	0	0	0	2	0
Liu Q	China	0.4160	0.1761	2.3623	32.2464	1.0561	0	0	0	2	0
Liu Z	China	-0.1652	0.2634	-0.6272	14.4135	0.6106	0	0	0	0	0
Malats	7 Europe+Brazil	0.2033	0.1866	1.0895	28.7195	0.8717	0	0	0	0	0
McGhee	China	0.1572	0.1088	1.4449	84.4777	0.9025	0	0	0	2	0
Nishino	Japan	0.3107	0.2704	1.1490	13.6769	0.8950	1	1	1	0	0
Ohno	Japan	-0.0211	0.1122	-0.1881	79.4354	0.8114	0	0	0	0	0
Pershagen	Sweden	0.0799	0.1542	0.5182	42.0563	0.9097	0	0	0	0	0
Rapiti	India	0.0798	0.2467	0.3235	16.4309	0.8504	0	0	0	0	0
Rylander	Sweden	0.1529	0.2465	0.6203	16.4576	0.7290	0	0	0	0	0
Schwartz	USA	0.0249	0.0933	0.2669	114.8780	1.1194	0	0	0	0	0
Seow	Singapore	0.1207	0.0935	1.2909	114.3870	0.9054	0	0	0	0	0
Shen	China	-0.1105	0.1567	-0.7052	40.7251	1.0903	0	0	0	0	0
Shimizu	Japan	0.0215	0.1467	0.1466	46.4665	0.9053	0	0	0	0	0
Sobue	Japan	0.0466	0.1035	0.4502	93.3511	0.9064	0	0	0	2	0
Speize	USA	0.1589	0.3354	0.4738	8.8894	0.6375	0	0	0	0	0
Stockwell	USA	0.1876	0.1456	1.2885	47.1712	1.1381	0	0	0	2	0
Sun	China	0.0611	0.1050	0.5819	90.7029	0.8954	0	0	0	2	0
Svensson	Sweden	0.1491	0.2646	0.5635	14.2830	0.8673	0	0	0	0	0
Trichopoulos	Greece	0.2441	0.1064	2.2942	88.3317	1.3389	0	0	0	0	0

ALL STUDIES

EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY

GENG DATA REPLACED WITH PNL ESTIMATES

WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

BASIC DATA USED IN META-ANALYSES

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)

Confounder Differences based on Weighted Regression

Study title	Country	Beta	St.Err. Beta	Z	Weight	ETSse	FRU	VEG	FAT	EDU	TEA
Vineis	Western Europe	0.0128	0.1826	0.0701	29.9915	0.8968	1	1	1	2	0
Wang L	China	0.0129	0.1462	0.0882	46.7849	0.6870	0	0	0	1	0
Wang S	China	0.4926	0.1962	2.5107	25.9778	0.8780	0	0	0	0	0
Wang T	China	0.1455	0.1180	1.2331	71.8184	1.0379	0	0	0	0	0
Wu	USA	0.0627	0.2079	0.3016	23.1361	1.1449	0	0	0	0	0
Wu-Williams	China	-0.2185	0.0569	-3.8401	308.8698	0.9047	0	0	0	2	0
Zaridze	Russia	0.1065	0.1061	1.0038	88.8320	0.8744	0	0	0	2	0
Zatloukal	Czech Republic	-0.4263	0.2312	-1.8439	18.7079	0.6900	0	0	0	2	0
Zheng	China	0.4897	0.2361	2.0741	17.9394	0.7567	0	0	0	0	0
Zhong	China	-0.0050	0.0896	-0.0558	124.5615	0.9343	1	0	0	1	0

NOTES: BETA SLOPE OF LOG RR ON NCIGS

SE BETA STANDARD ERROR OF BETA

Z RATIO OF BETA TO ITS STANDARD ERROR (APPROXIMATE NORMAL STATISTIC)

WEIGHT INVERSE OF THE VARIANCE OF BETA

ETSse STANDARD ERROR OF ETS EXPOSURE OVER THE CONTROL GROUPS

FRU = 1 DOSE-RESPONSE ANALYSIS ADJUSTED FOR FRUIT

VEG = 1 " " " " VEGETABLES

FAT = 1 " " " " FRUIT

EDU = 1 " " " " INCOME

= 2 " " " " EDUCATION

= 3 " " " " SOCIO-ECONOMIC STATUS

TEA = 0 NO ADJUSTMENT (OR MATCHING) FOR TEA

ALL STUDIES

EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY

GENG DATA REPLACED WITH PNL ESTIMATES

WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)
RANDOM-EFFECTS META-ANALYSES
Confounder Differences based on Weighted Regression

Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	62.1185	(66)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0729	0.0189	+++	1.0756	1.0366	1.1161

SEPARATE RANDOM-EFFECTS META-ANALYSES BY REGION

NORTH AMERICA AND EUROPE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	34.4529	(36)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0425	0.0171	+	1.0434	1.0091	1.0789

ASIA
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	23.6339	(29)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1180	0.0356	++	1.1252	1.0493	1.2067

USA AND CANADA
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	18.7966	(20)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0401	0.0206	(+)	1.0409	0.9998	1.0837

EUROPE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	14.9258	(15)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0510	0.0324	N.S.	1.0524	0.9877	1.1213

CHINA AND HONG KONG
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	14.6776	(17)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1158	0.0535	+	1.1228	1.0110	1.2469

REST OF ASIA

ALL STUDIES
EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY
GENG DATA REPLACED WITH PNL ESTIMATES
WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)
SEPARATE RANDOM-EFFECTS META-ANALYSES BY REGION
Confounder Differences based on Weighted Regression

Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	8.5679	(11)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1274	0.0362	++	1.1359	1.0582	1.2194

SEPARATE RANDOM-EFFECTS META-ANALYSES BY YEAR OF PUBLICATION

PUBLISHED IN 1980S
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	20.4418	(24)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1280	0.0265	+++	1.1366	1.0791	1.1971

PUBLISHED IN 1990S
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	26.8800	(26)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0434	0.0293	N.S.	1.0444	0.9862	1.1060

PUBLISHED IN 2000S
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	13.9684	(14)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0625	0.0387	N.S.	1.0645	0.9867	1.1484

SEPARATE RANDOM-EFFECTS META-ANALYSES BY NUMBER OF LUNG CANCER CASES

<100 CASES
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	38.0419	(38)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1093	0.0304	+++	1.1155	1.0510	1.1839

100-199 CASES
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	12.5841	(13)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0461	0.0258	(+)	1.0471	0.9955	1.1014

200-399 CASES

ALL STUDIES
EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY
GENG DATA REPLACED WITH PNL ESTIMATES
WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)
SEPARATE RANDOM-EFFECTS META-ANALYSES BY NUMBER OF LUNG CANCER CASES
Confounder Differences based on Weighted Regression

Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	7.0339	(8)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.1426	0.0324	++	1.1533	1.0823	1.2288

400+ CASES
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	3.9039	(4)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	-0.0290	0.0532	N.S.	0.9714	0.8753	1.0781

SEPARATE RANDOM-EFFECTS META-ANALYSES BY DOSE-RESPONSE OR NOT

RESULTS FOR DOSE-RESPONSE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	21.8584	(22)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0966	0.0246	+++	1.1015	1.0497	1.1558

NO RESULTS FOR DOSE-RESPONSE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	39.4250	(43)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0556	0.0263	+	1.0572	1.0041	1.1130

SEPARATE RANDOM-EFFECTS META-ANALYSES BY AGE ADJUSTMENT OR NOT

ADJUSTED (OR MATCHED) FOR AGE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	48.6011	(54)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0433	0.0176	+	1.0443	1.0089	1.0808

NOT ADJUSTED (OR MATCHED) FOR AGE
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	11.9088	(11)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.2246	0.0531	++	1.2518	1.1281	1.3890

ALL STUDIES
EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY
GENG DATA REPLACED WITH PNL ESTIMATES
WEIGHT ON (1/se*se), Variance set at 1

APPENDIX 13

ETS and Lung Cancer - Meta-Analysis of Dose Response Exposure (or nearest equivalent), 08-SEP-06

Female (Husband's smoking) - Number cigarettes smoked

CORRECTED FOR ALL CONFOUNDERS (FRUIT, VEG, FAT, EDUCATION)
SEPARATE RANDOM-EFFECTS META-ANALYSES BY STUDY TYPE
Confounder Differences based on Weighted Regression

CASE-CONTROL STUDIES
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	53.2739	(56)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0753	0.0217	++	1.0782	1.0333	1.1251

PROSPECTIVE STUDIES
Dose Response (Beta)
WEIGHTED on Beta Weights

	Deviance	(DF)
Model 1	5.6927	(9)

	Estimate	S.E.	P	RR	95%CIl	95%CIu
Constant	0.0627	0.0344	N.S.	1.0648	0.9954	1.1389

ALL STUDIES
EXPOSURE GROUPS BASED ON ISSNZ, MODIFIED FOR USA, EXPOSURE IN 10 CIGS/DAY
GENG DATA REPLACED WITH PNL ESTIMATES
WEIGHT ON (1/se*se), Variance set at 1