

Appendix Table 2. Results for All Cancer and Site-specific Cancers by study.

Study name and reference	All or smoking-related cancers	Lung	Colo-rectal	Breast	Prostate	Stomach	Melanoma & Basal Cell	Liver Ovary Pancreas Cervix
Collaborative Study (Scotland) Davey Smith [39]	Men-RR father's occupation: manual vs. non-manual = 1.26 (1.02-1.56); Adjusted ^a RR: = 1.11 (0.87-1.41)							
Davey Smith [36]		Men-RR father's occupation: =1.65 (1.12-2.43), trend ^b p=0.045; Adjusted RR =1.23 (0.81-1.87), trend p=0.89				Men-RR father's occupation: 2.06 (0.93-4.57), trend p=0.011; Adjusted RR 2.03 (0.86-4.78), trend p=0.014/		
Heslop [27]		Women HR =2.31 (0.85-6.28); Adjusted HR =2.20 (0.81-5.60)						

Study name and reference	All or smoking-related cancers	Lung	Colo-rectal	Breast	Prostate	Stomach	Melanoma & Basal Cell	Liver Ovary Pancreas Cervix
Collaborative Study (Scotland) Hart [32] Metcalf [49]	Men (other smoking related) – RR per sibling 1.04 (0.97-1.11), trend p=0.24; Adjusted RR per sibling 1.02 (0.95-1.10), trend p=0.64	Men- RR per sibling 1.07 (1.02-1.11); trend p=0.003 Adjusted RR per sibling 1.03(0.98-1.07), trend p=0.20 Men- HR 1.85 (1.32-2.60): Adjusted HR 1.43 (0.99-2.06)				Men –RR per sibling 1.15 (1.06-1.25), trend p=0.0006 Adjusted RR 1.14 (1.05-1.25), trend p=0.003		

Study name and reference	All or smoking-related cancers	Lung	Colo-rectal	Breast	Prostate	Stomach	Melanoma & Basal Cell	Liver Ovary Pancreas Cervix
<p>Boyd Orr Cohort Dedman [30]</p> <p>Frijters [33]</p>	<p>Five measures of living conditions: crowding, water supply, toilets, ventilation and cleanliness. None significantly related for all cancers or for non-smoking related cancer.</p> <p>Smoking related: High household income – Coefficient = -1.069 (t=1.84); Middle household income – coefficient = -0.190 (t=0.89)</p>	<p>Five measures of living conditions: crowding, water supply, toilets, ventilation and cleanliness. None significantly related.</p>						

Study name and reference	All or smoking-related cancers	Lung	Colo-rectal	Breast	Prostate	Stomach	Melanoma & Basal Cell	Liver Ovary Pancreas Cervix
Glasgow Alumni Cohort Davey Smith [38]	Men RR-Father's social class: I(ref) - V=0.47 (0.11-1.91) trend p=0.90							
Galobardes [14]	HR=1.01(0.91-1.12), trend p=0.855; Adjusted HR=1.02(0.92-1.13), trend p=0.678	HR=1.18(0.94-1.49), trend p=0.164 ; Adjusted HR=1.21(0.96-1.53), trend p=0.105	HR(colon cancer) =0.89(0.64-1.23), trend p=0.478 ; Adjusted- HR 0.91(0.65-1.26), trend p=0.571		HR=1.00 (0.72-1.38), trend p=0.996 Adjusted HR=1.00 (0.72-1.38), trend p=0.982	HR=1.57(0.91-2.71), trend p=0.104 ; Adjusted HR=1.51 (0.87-2.60), trend p=0.140		

Study name and reference	All or smoking-related cancers	Lung	Colo-rectal	Breast	Prostate	Stomach	Melanoma & Basal Cell	Liver Ovary Pancreas Cervix
Mothers of the 1958 Birth Cohort Power [12]		HR IV/V vs. I/II occupational class=1.92(1.32-2.81), trend p-value <0.001; Adjusted HR IV/V vs. I/II occupational class=1.38(0.93-2.05), trend p-value =0.08		HR IV/V vs. I/II occupational class=0.95 (0.67-1.34); Adjusted - HR IV/V vs. I/II occupational class=0.93 (0.65-1.35), trend p-value =0.60.		HR IV/V vs. I/II occupational class=5.78(1.32-25.3); Adjusted - HR IV/V vs. I/II occupational class=4.35(0.97-19.5), trend p-value =0.07		

Study name and reference	All or smoking-related cancers	Lung	Colo-rectal	Breast	Prostate	Stomach	Melanoma & Basal Cell	Liver Ovary Pancreas Cervix
Cohort from Finland Pensola [24] (personal comm to Galobardes 2004)	Men RR manual vs. non-manual=0.86 (0.62-1.18); Adjusted - RR) manual vs. non-manual=0.80 (0.57-1.13)							

Study name and reference	All or smoking-related cancers	Lung	Colo-rectal	Breast	Prostate	Stomach	Melanoma & Basal Cell	Liver Ovary Pancreas Cervix
Oslo Mortality Study Claussen [21] Naess [11]	RII (Smoking-related cancer) Men: Housing score=4.47 (1.72-11.7) Women: Housing score=1.47 (0.45-4.75); Adjusted for household income in adult life; RII (Smoking-related cancer) Men: Housing score=4.06 (1.56-10.5) Women: Housing score=1.51 (0.47-4.88)	Men-RII = 2.48 (1.26-4.88); Adjusted RII) = 2.36 (1.20-4.66)	Men RII 2.10(0.91-4.83); Adjusted - Men RII 2.10 (0.91-4.85)			Sanitary conditions index: RII=3.31(0.71-15.52) Economic deprivation index:RII=3.01(0.64-14.09)	(Melanoma) Men RII 0.53 (0.19-1.45); Adjusted RII 0.57 (0.21-1.58)	

Study name and reference	All or smoking-related cancers	Lung	Colo-rectal	Breast	Prostate	Stomach	Melanoma & Basal Cell	Liver Ovary Pancreas Cervix
All Norwegians Naess [23]		Economic deprivation index- RII 1.69 (0.86-3.31) Adjusted RII 1.45(0.73-2.90)				Economic deprivation index-RII 3.74 (0.83-16.91) Adjusted RII 3.01(0.64-14.09)		
Naess [40]		Both sexes, RII Adjusted 1.62(1.32-1.99)	Both sexes, RII Adjusted = 1.08(0.85-1.39)	RII Adjusted= 0.90(0.72-1.11)	RII Adjusted= 1.04(0.50-2.14)	Both sexes, RII Adjusted=2.28(1.49-3.51);	Melanoma- Both sexes RII Adjusted = 1.17(0.63-2.16)	Both sexes RII (pancreas) Adjusted = 1.43(0.95-2.15); RII(cervix) Adjusted= 1.77(1.09-2.87); RII(ovary) Adjusted=1.03(0.71-1.51)
Strand ^c [37]	Men (father's occupation) RR=1.24(0.92-1.68) ^a Women RR=1.41(1.10-1.81) ^a	Men (father's occupation) RR=0.93 (0.38-2.27) ^a Women RR=0.90(0.35-2.33) ^a		Women (father's occup) RR 1.24 (0.80-1.95) ^a				

Study name and reference	All or smoking-related cancers	Lung	Colo-rectal	Breast	Prostate	Stomach	Melanoma & Basal Cell	Liver Ovary Pancreas Cervix
Uppsala University Hospital Ekblom [26]					OR per unit increase in mother SEP=0.86(0.39-1.88), p=0.21			
All Swedish born 1944-1960 Lawlor ^d [22]	HH occupation -HR =1.09(1.05-1.14); Adjusted - HR =1.05(1.01-1.09)	HH occupation - HR =1.42(1.29-1.56); Adjusted =1.32(1.20-1.45)				HH occupation - HR=1.32(1.10-1.59); Adjusted =1.26(1.05-1.52)		HR (liver) =1.30(1.11-1.53); Adjusted=1.23(1.04-1.45) HR (pancreas) =1.23(1.05-1.45); Adjusted =1.17(1.00-1.37)

Study name and reference	All or smoking-related cancers	Lung	Colo-rectal	Breast	Prostate	Stomach	Melanoma & Basal Cell	Liver Ovary Pancreas Cervix
Danish Adoptees' Study Osler [25]	Men and women, High/middle vs. working class: <u>Biological father:</u> HR= 0.95 (0.79-1.14) <u>Adjusted for adoptees own occupational class</u> HR = 1.00 (0.85-1.16) Adjusted for adoptive father's SEP HR = 0.95 (0.79-1.14) <u>Adoptive father:</u> HR = 0.99 (0.76-1.06) Adjusted for biological father's SEP HR = 1.00 (0.85-1.16)							

Study name and reference	All or smoking-related cancers	Lung	Colo-rectal	Breast	Prostate	Stomach	Melanoma & Basal Cell	Liver Ovary Pancreas Cervix
Gazel cohort Melchior ^e [10]	Smoking-related cancers. HR for low lifelong vs. high SES 2.09 (1.34 to 3.25), Adjusted 1.92 (1.23 to 3.01)							
De Kok [31]	Father's occupation - HR Low vs. High SES 1.00(0.79-1.27), Adjusted HR 1.03 (0.81-1.31)	HR Low vs. High SES 0.99(0.48-2.06), Adjusted HR 0.92 (0.44-1.93)	HR Low vs. High SES 2.89(1.01-8.23), Adjusted HR 2.78 (0.97-7.94).	HR Low vs. High SES 0.93(0.51-1.710), Adjusted HR 0.99(0.53-1.82)	HR Low vs. High SES 1.13(0.50-2.56), Adjusted HR 1.17(0.52-2.65)		(Basal Cell) HR Low vs. High SES 0.75(0.48-1.19), Adjusted HR 0.8390.52-1.31	

Study name and reference	All or smoking-related cancers	Lung	Colo-rectal	Breast	Prostate	Stomach	Melanoma & Basal Cell	Liver Ovary Pancreas Cervix
Wisconsin Longitudinal Study Pudrovska [28]				Mother's education HR=1.23 (p<.05) for incidence; Father's education HR=0.13 for mortality (p<.001).	,			

RR – Relative Risk

HR – Hazards Ratio

RII – Relative Index of Inequality

HH – Head of Household

a: Adjusted refers to adjustment for adult SES or SEP unless otherwise specified

b: Trend refers to levels of SES or SEP unless otherwise specified

c: Also examined by father's education, mother's education and household income.

d: Also included estimates for brain, lymphoma and leukemia

e: Also examined trajectories in SES, low to high and high to low.