

eTable 1. Description of the studies included in these analyses in the SYNERGY project

Study	Country	Data collection	Cases		Controls		Asbestos exposure	Source of controls P=Population H=Hospital	Interviewee S=subject NOK=Next-of-kin
			N	Response rate (%)	N	Response rate (%)			
AUT-Munich	Germany	1990–1995	3180	77	3249	41	1946-1995	P	S
HdA	Germany	1988–1993	1004	69	1004	68	1946-1993	P	S
EAGLE	Italy	2002–2005	1943	87	2116	72	1936-2005	P	S
TURIN/VENETO	Italy	1990–1994	1132	79	1553	80	1922-1994	P	S
ROME	Italy	1993–1996	347	74	365	63	1929-1996	H	S
LUCA	France	1989–1992	309	98	302	98	1946-1992	H	S
PARIS	France	1988–1992	173	95	234	95	1946-1992	H	S
ICARE	France	2001–2007	2926	87	3555	81	1946-2007	P	S & NOK
CAPUA	Spain	2000–2010	875	91	838	96	1946-2009	H	S
MORGEN ^a	Netherlands	1993–1997	71	N/A	202	N/A	1946-1995	P	S
INCO	Czech Republic	1999–2002	304	94	453	80	1946-2002	H	S
INCO	Hungary	1998–2001	402	90	315	100	1946-1999	H	S
INCO	Poland	1998–2002	800	88	841	88	1946-2001	P & H	S
INCO	Slovakia	1998–2002	346	90	285	84	1946-2002	H	S
INCO	Romania	1998–2002	181	90	228	99	1946-2002	H	S
INCO	Russia	1998–2001	600	96	580	90	1936-2000	H	S
INCO/LLP	United Kingdom	1998–2005	442	78	918	84	1933-2004	P	S
LUCAS	Sweden	1985–1990	1042	87	2356	85	1946-1990	P	S & NOK
MONTREAL	Canada	1996–2002	1203	85	1509	69	1935-2002	P	S & NOK
TORONTO	Canada	1997–2002	425	62	910	71	1933-2002	P & H	S
Overall	14 countries	1985–2010	17705	83%	21813	70%	1922-2009	H=21%	NOK=7.3%

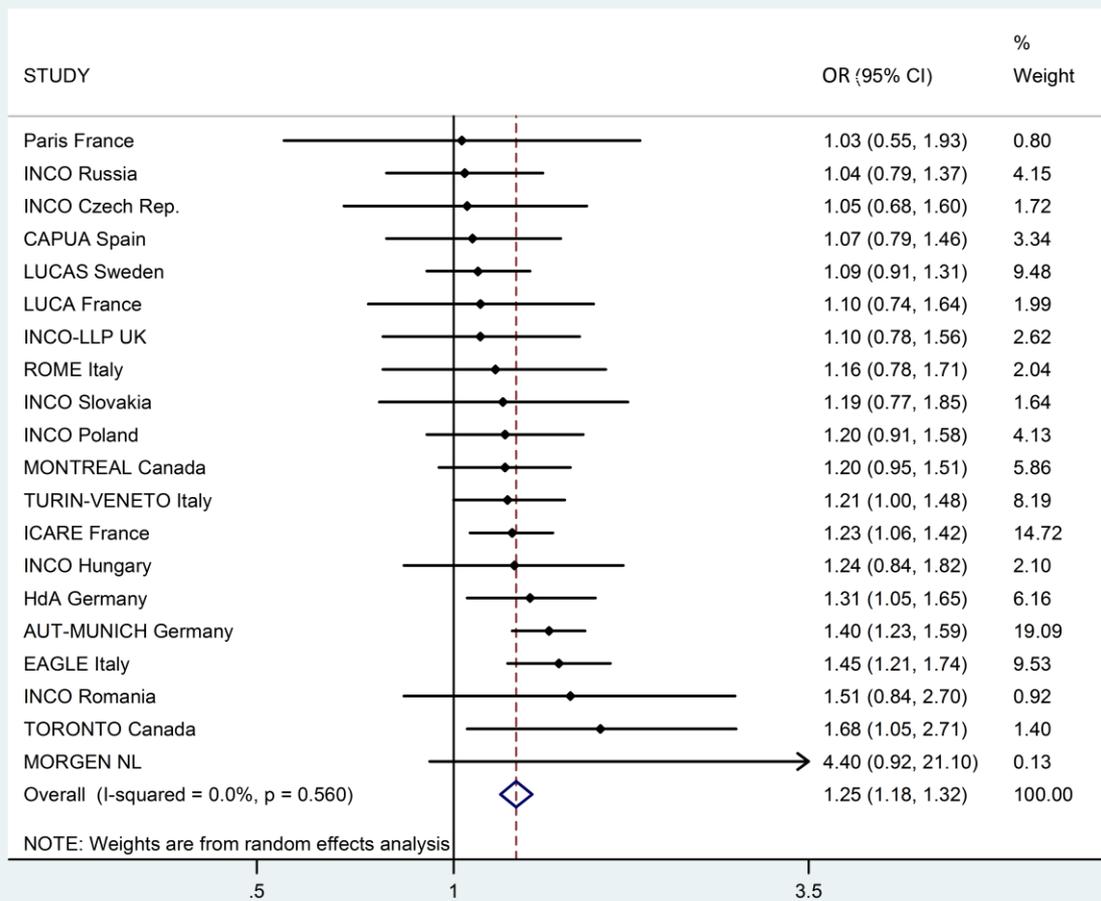
^a Nested case-control study: 45% of invited participants to the original cohort completed the baseline questionnaire

eTable 2. Prevalence of occupational asbestos exposure among control subjects in men by study before and after excluding the category “laborers not elsewhere classified (n.e.c.)” (ISCO 9-99.XX), and ever high asbestos exposure

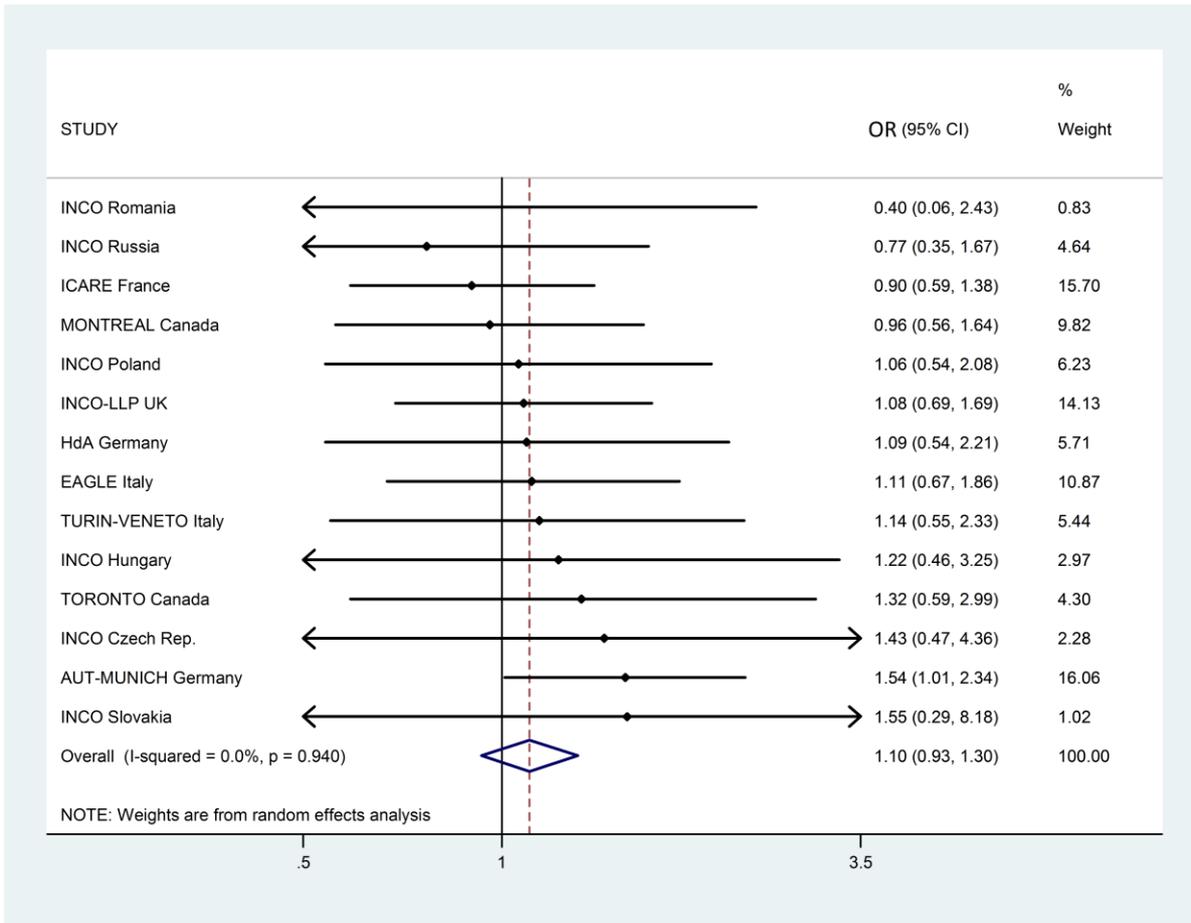
Study	All male control subjects		Excl. labourer n.e.c. (ISCO 9-99.xx)		All male control subjects	
	Asbestos exposure		Asbestos exposure		High asbestos exposure (DOM-JEM=2)	
	No.	%	No.	% of all	No.	% of all
AUT-Munich	1285	47.6	1100	40.7	205	7.6
CAPUA	197	43.3	151	33.2	19	4.2
EAGLE	500	31.6	477	30.1	71	4.5
HdA	434	51.9	310	37.1	96	11.5
ICARE	1060	39.2	940	34.8	182	6.7
INCO_CZ	141	48.1	135	46.1	19	6.5
INCO_Hungary	127	51.6	94	38.2	22	8.9
INCO_Poland	220	38.4	191	33.3	18	3.1
INCO_Romania	46	30.5	43	28.5	4	2.6
INCO_Russia	288	57.3	237	47.1	45	8.9
INCO_Slovakia	94	39.8	76	32.2	25	10.6
INCO/LLP_UK	359	62.8	263	46.0	72	12.6
LUCA	110	39.0	90	31.9	20	7.1
LUCAS	614	26.6	569	24.7	89	3.9
MONTREAL	412	46.1	301	33.7	45	5.0
MORGEN	12	21.1	12	21.1	2	3.5
PARIS	102	47.2	77	35.6	18	8.3
ROME	118	45.9	74	28.8	12	4.7
TURIN/VENETO	616	49.9	414	33.5	76	6.2
TORONTO	67	19.3	58	16.7	6	1.7
TOTAL	6802	41.3	5612	34.1	1046	6.4

eTable 3. Prevalence of occupational asbestos exposure among control subjects in women by study before and after excluding the category “laborers not elsewhere classified (n.e.c.)”(ISCO 9-99.XX), and ever high asbestos exposure

Study	All female control subjects		Excl. labourer n.e.c. (ISCO 9-99.xx)		All female control subjects	
	Asbestos exposure		Asbestos exposure		High asbestos exposure (DOM-JEM=2)	
	No.	%	No.	% of all	No.	% of all
AUT-Munich	55	10.1	41	7.5	3	0.5
CAPUA	4	7.0	3	5.3	0	0.0
EAGLE	47	9.7	47	9.7	2	0.4
HdA	23	13.9	18	10.9	2	1.2
ICARE	68	9.2	52	7.0	1	0.1
INCO_CZ	14	8.8	13	8.2	0	0.0
INCO_Hungary	11	18.6	4	6.8	0	0.0
INCO_Poland	25	9.5	23	8.8	0	0.0
INCO_Romania	9	12.2	8	10.8	0	0.0
INCO_Russia	26	33.8	11	14.3	0	0.0
INCO_Slovakia	5	10.2	4	8.2	2	4.1
INCO/LLP_UK	119	34.6	116	33.7	1	0.3
MONTREAL	47	7.7	46	7.5	2	0.3
MORGEN	0	0.0	0	0.0	0	0.0
PARIS	1	9.1	1	9.1	1	9.1
ROME	4	6.3	3	4.7	0	0.0
TURIN/VENETO	30	11.8	24	9.4	0	0.0
TORONTO	22	4.4	18	3.6	0	0.0
TOTAL	510	11.3	432	9.6	14	0.3



eFigure 4. Study-specific odds ratios (OR) for ever-exposure to asbestos compared with never-exposed in men adjusted for age group, cigarette pack-years, time-since-quitting smoking, and ever-employment in a “List A” job



eFigure 5. Study-specific odds ratios (OR3) for ever exposure to asbestos compared with never-exposed in women adjusted for age group, cigarette pack-years, time-since-quitting smoking, and ever-employment in a “List A” job

eTable 6. Lung cancer odds ratios for models with and without interaction between occupational asbestos exposure and smoking among men and women overall and by major lung cancer cell types, in the SYNERGY study, 1985–2010

<u>Lung cancer cell type</u>	<u>Exposure categories</u> <u>asbestos</u>	<u>Men</u>			<u>Women</u>		
		OR (SE)	with Interaction	P value ^a	OR (SE)	with Interaction	P-value ^a
All lung cancers	Exposed	1.27 (1.03)	1.23 (1.09)	0.74	1.13 (1.07)	1.06 (1.14)	0.55
	Ever Smoker	8.08 (1.05)	8.00 (1.06)		4.31 (1.05)	4.26 (1.06)	
	Exposed * Ever Smoker		1.03 (1.09)			1.09 (1.16)	
Squamous cell lung cancer	Exposed	1.36 (1.03)	1.30 (1.17)	0.72	1.20 (1.13)	0.97 (1.35)	0.44
	Ever Smoker	11.02 (1.08)	10.70 (1.11)		8.08 (1.12)	7.85 (1.13)	
	Exposed * Ever Smoker		1.06 (1.17)			1.28 (1.39)	
Small cell lung cancer	Exposed	1.22 (1.05)	1.70 (1.28)	0.18	1.32 (1.15)	3.22 (1.36)	0.002
	Ever Smoker	11.47 (1.13)	13.33 (1.20)		13.60 (1.16)	16.78 (1.19)	
	Exposed * Ever Smoker		0.72 (1.28)			0.35 (1.40)	
Adenocarcinoma	Exposed	1.17 (1.04)	1.30 (1.16)	0.48	1.02 (1.11)	0.91 (1.17)	0.37
	Ever Smoker	5.87 (1.08)	6.11 (1.11)		2.61 (1.07)	2.56 (1.07)	
	Exposed * Ever Smoker		0.90 (1.16)			1.20 (1.22)	

'Never Smokers' and 'Not asbestos exposed' are the reference categories

OR are adjusted for study, age-group, ever-employment in List A job.

^a P-value on Interaction variable