

Occupational and non-occupational attributable risk of asbestos exposure for malignant pleural mesothelioma

Supplementary material

Table 1 : Occupational and non-occupational attributable risk of asbestos exposure for pleural mesothelioma, 437 cases (362 men; 75 women) and 874 controls (724 men; 150 women), French case-control study, 1998-2002: variation of the “ever exposed” definition, sensitivity analyses 1 to 4.

Overall asbestos exposure		Men						Women							
		Cases (362)		Controls (724)		OR	99% CI	95% CI	Cases (75)		Controls (150)		OR	99% CI	95% CI
		n	%	n	%				n	%	n	%			
Analysis 1															
Not exposed and initially assessed as possibly exposed		59	16.3	367	50.7	1.0	-	-	51	68.0	142	94.7	1.0	-	-
Definitely exposed at any intensity		303	83.7	357	49.3	5.6	3.6-8.8	4.0-7.9	24	32.0	8	5.3	6.0	2.1-17.2	2.7-13.4
ARp [CI]						68.6	58.0-79.1	60.6-76.5					26.7	12.0-41.3	15.6-37.8
						68.8	59.0-78.6	61.3-76.2					26.7	11.1-42.2	14.9-38.5
Analysis 2															
Not exposed and initially assessed as exposed at a very low intensity		19	5.3	263	36.3	1.0	-	-	35	46.7	135	90.0	1.0	-	-
Exposed at any probability with an intensity equal or higher to low		343	94.7	461	63.7	11.3	5.6-22.8	6.6-19.2	40	53.3	15	10.0	9.9	3.4-28.7	4.4-22.3
ARp [CI]						85.9	77.2-94.7	79.3-92.6					47.4	30.0-65.0	34.2-60.8
						86.3	78.7-93.9	80.5-92.1					47.9	31.2-64.7	35.2-60.6
Analysis 3															
Not exposed and initially assessed as possibly exposed at a very low intensity		19	5.3	263	36.3	1.0	-	-	31	41.3	132	88.0	1.0	-	-
Exposed at any probability with an intensity equal or higher to low or exposed at any intensity with a definite probability		343	94.7	461	63.7	11.3	5.6-22.8	6.6-19.2	44	58.7	18	12.0	9.3	3.4-25.3	4.4-20.0
ARp [CI]						86.0	77.2-94.7	79.3-92.6					52.0	34.1-69.8	38.4-65.6
						86.3	78.7-93.9	80.5-92.1					52.4	35.3-69.4	39.4-69.4
Analysis 4															
Not exposed and initially assessed as possibly exposed or exposed at a very low level intensity		59	16.3	367	50.7	1.0	-	-	56	74.7	145	96.7	1.0	-	-
Exposed at a definite probability and an intensity equal or higher to low		303	83.7	357	49.3	5.6	3.6-8.8	4.0-7.9	19	25.3	5	3.3	7.6	2.1-27.7	2.8-20.4
ARp [CI]						68.6	58.0-79.1	60.6-76.5					22.0	8.0-36.0	11.3-32.7
						68.8	59.0-78.6	61.3-76.2					22.0	8.1-35.9	11.4-32.6

Table 2 : Occupational asbestos exposure and risk of pleural mesothelioma, 437 cases (362 men; 75 women) and 874 controls (724 men; 150 women), French case-control study, 1998-2002 – no lag period

Occupational asbestos exposure		Men (1086)							Women (225)							
		Cases (362)		Controls (724)		OR	99% CI	95% CI	Cases (75)		Controls (150)		OR	99% CI	95% CI	
		n	%	n	%				n	%	n	%				
Not exposed		26	7.2	315	43.5	1.0	-	-	39	52.0	133	88.7	1.0	-	-	
Exposed		336	92.8	409	56.5	11.5	6.1-21.9	7.1-18.8	36	48.0	17	11.3	6.8	2.6-18.1	3.3-14.3	
Highest probability of exposure	Possible	42	11.6	106	14.6	5.3	2.4-11.7	2.9-9.7	Possible	21	28.0	11	7.3	6.4	2.0-20.3	2.7-15.4
	Definite	294	81.2	303	41.9	13.6	7.1-26.3	8.3-22.4	Definite	15	20.0	6	4.0	7.5	2.0-28.7	2.7-20.8
Duration of exposure (years)	1-10	55	15.2	106	14.7	7.3	3.5-15.5	4.2-13.0	1-10	18	24.0	6	4.0	17.2	2.5-120.6	3.9-75.8
	>10-20	45	12.4	58	8.0	11.2	4.9-25.3	6.0-20.8	>10	18	24.0	11	7.3	4.5	1.5-13.7	1.9-10.5
	>20	236	65.2	245	33.8	13.3	6.9-25.9	8.1-22.1								
Age at first exposure (years)	≤ 15	77	21.3	63	8.7	16.2	7.5-35.0	9.1-29.1	≤ 20	14	18.7	2	1.3	35.9	2.4-542.5	4.6-283.5
	>15-20	122	33.7	115	15.9	15.3	7.5-31.4	8.9-26.4	>20	22	29.3	15	10.0	4.6	1.6-13.2	2.1-10.3
	>20	137	37.8	231	31.9	8.4	4.3-16.5	5.1-14.0								
Time since first exposure (years)	>19-40	83	22.9	131	18.1	7.9	3.8-16.5	4.5-13.8	>19-40	17	22.7	11	7.3	4.6	1.4-14.8	1.9-11.1
	>40-50	114	31.5	131	18.1	13.0	6.3-26.9	7.5-22.6	>40	19	25.3	6	4.0	12.6	2.5-63.8	3.7-43.3
	>50	139	38.4	147	20.3	13.8	6.8-28.0	8.0-23.6								
Year at first exposure	≤1960	256	70.7	275	38.0	14.3	7.3-28.0		≤1960	19	25.3	6	4.0	14.0	2.7-74.0	
	>1960-1977	75	20.7	108	14.9	8.7	4.1-18.5		>1960-1977	13	17.4	4	2.6	9.6	1.9-48.9	
	>1977	5	1.4	26	3.6	1.9	0.4-8.5		>1977	4	5.3	7	4.7	1.5	0.3-8.9	
Cumulative exposure (« f/ml-years »)	>0-0.1	51	14.1	174	24.0	4.1	1.9-8.7	2.3-7.3	>0-0.1	12	16.0	8	5.3	4.7	1.2-17.7	1.7-12.9
	>0.1-1	69	19.1	128	17.7	8.3	3.9-17.7	4.6-14.7	>0.1	24	32.0	9	6.0	8.9	2.6-30.4	3.5-22.7
	>1-10	107	29.5	76	10.5	19.0	8.8-41.1	10.6-34.2								
	>10	109	30.1	31	4.3	70.9	27.2-185.0	34.2-147.1								
ARp [CI]	Bootstrap					84.7	77.3-92.0	79.1-90.3					41.0	24.1-57.8	28.2-53.8	
	Greenland					83.6	74.9-92.2	77.0-90.2					41.3	23.6-58.9	27.9-54.6	

Table 3 : Non occupational asbestos exposure and risk of pleural mesothelioma among subjects non exposed to occupational asbestos exposure, 45 cases (9 men; 36 women) and 90 controls (18 men; 72 women), French case-control study, 1998-2002 – no lag period

Non occupational asbestos exposure	Men (24)							Women (90)						
	Cases (8)		Controls (16)		OR	99% CI	95% CI	Cases (30)		Controls (60)		OR	99% CI	95% CI
	n	%	n	%				n	%	n	%			
Not exposed	3	37.5	13	81.3	1.0	-	-	12	40.0	46	76.7	1.0	-	-
Exposed	5	62.5	3	18.7	4.3	0.5-38.5	0.8-22.8	18	60.0	14	23.3	5.9	1.4-25.8	1.9-18.1
Highest probability of exposure	Possible	0	0.0	0	0.0			10	33.3	11	18.3	4.5	0.8-24.2	1.2-16.2
	Definite	5	62.5	3	18.7	4.3	0.5-38.5	0.8-22.8	8	26.7	3	5.0	8.6	1.2-59.4
ARp [CI]	Bootstrap				48.1	-15.7-112.8	-034-96.5					49.4	16.5-82.3	24.4-74.4
	Greenland				48.6	-14.0-111.3	1.0-96.2					48.9	17.0-80.8	24.6-73.1

Table 4 : All asbestos exposure and risk of pleural mesothelioma, 437 cases (362 men; 75 women) and 874 controls (724 men; 150 women), French case-control study, 1998-2002 – no lag period

All asbestos exposure	Men						Women							
	Cases (362)		Controls (724)		OR	99% CI	95% CI	Cases (75)		Controls (150)		OR	99% CI	95% CI
	n	%	n	%				n	%	n	%			
Not exposed	11	3.0	224	30.9	1.0	-	-	16	21.3	95	63.3	1.0	-	-
Exposed	351	97.0	500	69.1	14.6	6.3-34.2	7.7-27.9	59	78.7	55	36.7	7.6	2.8-20.8	3.5-16.3
Occupational only	236	67.2	301	60.2				28	47.5	14	25.5			
Non occupational only	15	4.3	91	18.2				23	39.0	38	69.1			
Both occupational and non occupational	100	28.5	108	21.6				8	13.5	3	5.4			
Highest probability of exposure														
Possible	38	10.5	103	14.2	7.4	2.8-19.7	3.5-15.6	34	45.3	43	28.7	5.9	2.0-17.4	2.6-13.5
Probable	313	86.5	397	54.9	16.3	6.9-38.2	8.5-31.2	25	33.4	12	8.0	11.0	3.3-36.7	4.4-27.5
ARp [CI]	Bootstrap				90.2	83.8-96.7	85.3-95.2					67.9	49.6-86.3	54.0-81.9
	Greenland				89.8	81.7-98.0	83.6-96.0					67.9	47.9-87.9	52.7-83.1

Table 5 : Occupational asbestos exposure and risk of pleural mesothelioma, 437 cases (362 men; 75 women) and 874 controls (724 men; 150 women), French case-control study, 1998-2002 – 10-years lag period

Occupational asbestos exposure		Men (1 086)							Women (225)							
		Cases (362)		Controls (724)		OR	99% CI	95% CI	Cases (75)		Controls (150)		OR	99% CI	95% CI	
		n	%	n	%				n	%	n	%				
Not exposed		26	7.2	317	43.8	1.0	-	-	39	52.0	135	90.0	1.0	-	-	
Exposed		336	92.8	407	56.2	11.7	6.1-22.2	7.2-19.0	36	48.0	15	10.0	7.2	2.7-18.8	3.4-15.0	
Highest probability of exposure	Possible	42	11.6	105	14.5	5.4	2.5-11.9	3.0-9.9	Possible	21	28.0	10	6.7	6.4	2.1-19.9	2.7-15.1
	Definite	294	81.2	302	41.7	13.8	7.1-26.5	8.4-22.6	Definite	15	20.0	5	3.3	8.6	2.1-35.6	2.9-25.4
Duration of exposure (years)	1-10	55	15.2	110	15.2	7.2	3.4-15.2	4.1-12.7	1-10	19	25.3	7	4.7	9.0	2.2-37.3	3.0-26.5
	>10-20	54	14.9	62	8.6	12.5	5.5-28.2	6.7-23.2	>10	17	22.7	8	5.3	5.9	1.6-20.9	2.2-15.4
	>20	227	62.7	235	32.4	13.5	6.9-26.2	8.1-22.3								
Age at first exposure (years)	≤ 15	77	21.3	63	8.7	16.3	7.5-35.3	9.1-29.3	≤ 20	14	18.7	2	1.3	33.1	2.2-493.9	4.2-258.8
	>15-20	122	33.7	115	15.9	15.3	7.5-31.3	8.9-26.4	>20	22	29.3	13	8.7	4.9	1.7-13.9	2.2-10.8
	>20	137	37.8	229	31.6	8.6	4.4-16.8	5.1-14.3								
Time since first exposure (years)	>9-40	83	22.9	129	17.8	8.1	3.9-17.1	4.6-14.3	>19-40	17	22.7	9	6.0	4.9	1.5-15.9	2.0-12.0
	>40-50	114	31.5	131	18.1	13.0	6.3-26.8	7.5-22.5	>40	19	25.3	6	4.0	12.7	2.5-64.5	3.7-43.8
	>50	139	38.4	147	20.3	13.8	6.8-28.1	8.1-23.7								
Year at first exposure	≤1960	256	70.7	275	38.0	14.3	7.3-28.1	8.6-23.9	≤1960	19	25.3	6	4.0	14.0	2.7-73.9	4.0-49.7
	>1960-1977	75	20.7	108	14.9	8.7	4.1-18.6	4.9-15.5	>1960-1977	13	17.3	4	2.7	9.6	1.9-48.5	2.8-32.9
	>1977	5	1.4	24	3.3	2.0	0.5-9.3	0.6-6.5	>1977	4	5.4	5	3.3	1.9	0.3-10.9	0.5-7.1
Cumulative exposure (« f/ml-years »)	>0-0.1	53	14.7	175	24.2	4.3	2.0-9.0	2.4-7.5	>0-0.1	13	17.3	7	4.7	5.0	1.3-19.0	1.8-13.8
	>0.1-1	67	18.5	126	17.4	8.3	3.9-17.7	4.6-14.8	>0.1	23	30.7	8	5.3	9.5	2.6-34.8	3.5-25.5
	>1-10	108	29.8	76	10.5	19.5	9.0-42.2	10.9-35.1								
	>10	108	29.8	30	4.1	72.1	27.6-188.3	34.7-149.7								
ARp [CI]	Bootstrap					84.8	77.5-92.1	79.2-90.3					41.3	24.6-58.0	28.6-54.0	
	Greenland					83.7	75.0-92.3	77.1-90.2					41.5	23.9-59.0	28.1-57.8	

Table 6 : Non occupational asbestos exposure and risk of pleural mesothelioma among subjects non exposed to occupational asbestos exposure, 45 cases (9 men; 36 women) and 90 controls (18 men; 72 women), French case-control study, 1998-2002 – 10-years lag period

Non occupational asbestos exposure		Men (24)							Women (90)						
		Cases (8)		Controls (16)		OR	99% CI	95% CI	Cases (30)		Controls (60)		OR	99% CI	95% CI
		n	%	n	%				n	%	n	%			
Not exposed		4	50.0	13	81.2	1.0	-	-	12	40.0	47	78.3	1.0	-	
Exposed		4	50.0	3	18.8	3.3	0.3-32.5	0.6-18.9	18	60.0	13	21.7	6.2	1.4-27.1	2.1-19.1
Highest probability of exposure	Possible	0	0.0	0	0.0	-			11	36.7	10	16.7	5.3	1.0-27.0	1.5-18.3
	Definite	4	50.0	3	18.8	3.3	0.3-32.5	0.6-18.9	7	23.3	3	2.0	8.4	1.1-62.1	1.8-38.5
ARp [CI]	Bootstrap					35.1	-33.5-103.6	-17.0-87.1					50.3	18.4-82.1	26.1-74.5
	Greenland					35.7	-26.4-97.8	-11.5-82.9					49.3	17.8-80.8	25.4-73.2

Table 7 : All asbestos exposure and risk of pleural mesothelioma, 437 cases (362 men; 75 women) and 874 controls (724 men; 150 women), French case-control study, 1998-2002 – 10-years lag period

All asbestos exposure		Men (1 086)							Women (225)						
		Cases (362)		Controls (724)		OR	99% CI	95% CI	Cases (75)		Controls (150)		OR	99% CI	95% CI
		n	%	n	%				n	%	n	%			
Not exposed		14	3.9	237	32.7	1.0	-	-	16	21.3	98	65.3	1.0	-	
Exposed	All	348	96.1	487	67.3	12.9	5.9-28.1	7.1-23.3	59	78.7	52	34.7	7.9	2.9-21.6	3.7-17.0
	Occupational only	245	70.4	309	63.4				28	47.5	12	23.1			
	Non occupational only	12	3.4	80	16.4				23	39.0	37	71.2			
	Both occupational and non occupational	91	26.2	98	20.2				8	13.5	3	5.7			
Highest probability of exposure															
	Possible	37	10.2	103	14.2	6.2	2.5-15.5	3.1-12.5	35	46.7	41	27.3	6.2	2.1-18.1	2.8-14.0
	Probable	311	85.9	384	53.1	14.7	6.7-32.2	8.1-26.6	24	32.0	11	7.4	12.0	3.5-41.4	4.6-30.8
ARp [CI]	Bootstrap					88.6	81.5-95.7	83.2-94.0					68.5	50.6-86.4	54.9-82.1
	Greenland					87.7	79.0-96.5	81.1-94.3					68.3	48.7-87.9	53.4-83.2

Table 8 : Occupational asbestos exposure and risk of pleural mesothelioma, 437 cases (362 men; 75 women) and 874 controls (724 men; 150 women), French case-control study, 1998-2002 – 20-years lag period

Occupational asbestos exposure		Men (1 086)							Women (225)							
		Cases (362)		Controls (724)		OR	99% CI	95% CI	Cases (75)		Controls (150)		OR	99% CI	95% CI	
		n	%	n	%				n	%	n	%				
Not exposed		28	7.7	327	45.2	1.0	-	-	41	54.7	139	92.7	1.0	-	-	
Exposed	All	334	92.3	397	54.8	11.4	6.1-21.4	7.1-18.4	All	34	45.3	11	7.3	12.0	3.5-41.7	4.7-31.0
	Direct	270	80.8	280	70.5				Direct	9	26.5	2	18.2			
	Indirect	64	19.2	117	29.5				Indirect	25	73.5	9	81.8			
Time since last Exposure (years)	>19-30	274	75.7	299	41.3	12.4	6.6-23.5	7.7-20.2	>19-30	19	25.3	7	4.6	9.3	2.3-36.8	3.3-26.4
	>30-40	27	7.5	45	6.2	7.7	3.2-18.8	3.9-15.2	>30	15	20.0	4	2.7	20.9	2.7-163.4	4.4-99.9
	>40	33	9.1	53	7.3	8.9	3.8-20.7	4.7-16.9								
Mean index of exposure (f/ml)	>0-0.01	39	10.8	130	18.0	4.3	1.9-9.3	2.3-7.8	>0-0.01	7	9.3	5	3.3	4.1	0.8-21.9	1.2-14.7
	>0.01-0.1	62	17.1	158	21.8	5.3	2.5-11.1	3.0-9.3	>0.01	27	36.0	6	4.0	27.2	4.0-183.7	6.3-116.3
	>0.1-1	117	32.3	77	10.6	20.1	9.4-42.9	11.3-35.7								
	>1	116	32.1	32	4.4	54.6	22.4-133.0	27.8-107.5								
Year at first exposure	≤ 1977	331	91.5	383	52.9	12.0	6.4-22.6		≤1977	32	42.7	10	6.7	12.4	3.5-44.1	
	>1977	3	0.8	14	1.9	2.3	0.4-14.8		>1977	2	2.6	1	0.6	8.4	0.2-282.3	
Year at first exposure	≤ 1960	256	70.7	275	38.0	14.0	7.2-27.1		≤ 1960	19	25.3	6	4.0	14.2	2.7-75.0	
	>1960-1970	63	17.4	80	11.0	9.8	4.6-21.1		> 1960	25	20.0	5	3.3	10.2	2.1-50.5	
	> 1970	15	4.2	42	5.8	3.3	1.1-9.8									
Year at first exposure	≤ 1950	152	42.0	148	20.4	15.9	7.8-32.4		≤ 1950	7	9.3	1	0.7	41.5	2.0-864.4	
	>1950-1970	167	46.1	207	28.6	10.8	5.5-21.2		> 1950	27	36.0	10	6.6	10.5	3.0-37.1	
	> 1970	15	4.2	42	5.8	3.4	1.2-10.1									
ARp [CI]	Bootstrap					84.1	76.6-91.5	78.4-89.7						41.6	25.8-57.4	29.6-53.6
	Greenland					83.1	74.5-91.7	76.5-89.6						41.7	25.3-58.0	29.3-54.1

Table 9 : Non occupational asbestos exposure and risk of pleural mesothelioma among subjects non exposed to occupational asbestos exposure, 45 cases (9 men; 36 women) and 90 controls (18 men; 72 women), French case-control study, 1998-2002 – 20-years lag period

Non occupational asbestos exposure	Men							Women						
	Cases (9)		Controls (18)		OR	99% CI	95% CI	Cases (36)		Controls (72)		OR	99% CI	95% CI
	n	%	n	%				n	%	n	%			
Not exposed	6	66.7	15	83.3	1.0	-	-	17	47.2	56	77.8	1.0	-	-
Exposed All	3	33.3	3	16.7	2.4	0.2-26.7	0.4-15.0	19	52.8	16	22.2	4.3	1.2-15.1	1.7-11.2
<i>Domestic</i>	2	66.7	3	100.0				15	78.9	12	75.0			
<i>Paraoccupational</i>	1	33.3	0	0.0				3	15.8	4	25.0			
<i>Environnemental</i>	0	0.0	0	0.0				1	5.3	0	0.0			
Highest intensity of exposure														
Very low	0	0.0	0	0.0	-	-	-	13	36.1	13	18.1	4.5	0.9-20.8	1.4-14.4
Low	2	22.2	2	11.1	2.3	0.2-33.6	0.3-17.7	2	5.6	3	4.1	1.4	0.1-21.1	0.2-11.1
Medium	1	11.1	1	5.6	2.6	0.1-113.7	0.1-46.0	4	11.1	0	0.0	-	-	-
ARp [CI]					19.3	-38.2-76.9	-24.4-63.0					40.2	6.6-73.8	14.7-65.7
	Bootstrap				20.0	-33.5-73.5	-20.7-60.7					38.7	8.4-69.0	15.7-61.7
	Greenland													

Table 10 : All asbestos exposure and risk of pleural mesothelioma, 437 cases (362 men; 75 women) and 874 controls (724 men; 150 women), French case-control study, 1998-2002 – 20-years lag period

Non occupational asbestos exposure	Men							Women						
	Cases (362)		Controls (724)		OR	99% CI	95% CI	Cases (75)		Controls (150)		OR	99% CI	95% CI
	n	%	n	%				n	%	n	%			
Not exposed	17	4.7	263	36.3	1.0	-	-	19	25.3	104	69.3	1.0	-	-
Exposed	345	95.3	461	63.7	13.0	6.2-27.5		56	74.7	46	30.7	8.0	2.9-21.8	
Possible	42	11.6	104	14.4	6.8	2.8-16.2		32	42.7	38	25.3	5.8	2.0-17.0	
Probable	303	83.7	357	49.3	14.8	7.0-31.6		24	32.0	8	5.4	14.7	4.0-54.2	
ARp [CI]					88.0	81.0-94.9	82.7-93.2					65.2	46.9-83.5	51.3-79.1
	Bootstrap				87.3	78.9-95.7	80.9-93.7					64.8	45.4-84.3	50.1-79.6
	Greenland													

Table 11 : Occupational asbestos exposure and risk of pleural mesothelioma, 437 cases (362 men; 75 women) and 874 controls (724 men; 150 women), French case-control study, 1998-2002 – 30-years lag period

Occupational asbestos exposure	Men (1 086)								Women (225)							
	Cases (362)		Controls (724)		OR	99% CI	95% CI	Cases (75)		Controls (150)		OR	99% CI	95% CI		
	n	%	n	%				n	%	n	%					
Not exposed	44	12.2	362	50.0	1.0	-	-	45	60.0	140	93.3	1.0	-	-		
Exposed	318	87.8	362	50.0	9.7	5.5-17.0	6.3-14.9	30	40.0	10	6.7	10.7	3.1-37.6	4.1-27.9		
Highest probability of exposure	Possible	41	11.3	98	13.5	4.6	2.2-9.7	2.6-8.2	Possible	16	21.3	7	4.7	8.6	2.0-37.0	2.9-26.1
	Definite	277	76.5	264	36.5	11.1	6.2-19.6	7.1-17.1	Definite	14	18.7	3	2.0	14.8	2.5-88.8	3.8-57.8
Duration of exposure (years)	1-10	106	29.3	146	20.2	7.7	4.1-14.3	4.8-12.4	1-10	20	26.7	6	4.0	13.5	2.6-69.1	3.9-46.8
	>10-20	107	29.5	114	15.7	10.9	5.7-21.1	6.6-18.1	>10	10	13.3	4	2.7	7.6	1.3-45.7	2.0-29.8
	>20	105	29.0	102	14.1	11.7	6.0-22.8	7.0-19.4								
Age at first exposure (years)	≤ 15	77	21.3	63	8.7	12.4	6.2-25.1	7.3-21.2	≤ 20	14	18.7	2	1.3	31.1	2.1-465.7	4.0-243.9
	>15-20	119	32.8	112	15.5	11.2	5.9-21.1	6.9-18.1	>20	16	21.3	8	5.4	6.8	1.7-27.6	2.3-19.7
	>20	122	33.7	187	25.8	7.4	4.0-13.6	4.6-11.8								
Time since first exposure (years)	>29-40	65	18.0	84	11.6	7.3	3.6-14.5	4.3-12.3	>19-40	11	14.7	4	2.7	8.1	1.5-42.3	2.3-28.5
	>40-50	114	31.5	131	18.1	10.6	5.5-20.5	6.4-17.6	>40	19	25.3	6	4.0	13.6	2.6-71.2	3.9-48.0
	>50	139	38.3	147	20.3	11.0	5.8-20.9	6.8-17.9								
Year at first exposure	≤1960	256	70.7	275	38.0	11.1	6.1-20.0	7.1-17.4	≤1960	19	25.3	6	4.0	13.6	2.6-71.2	3.9-48.0
	>1960-1977	62	17.1	87	12.0	6.8	3.4-13.6	4.0-11.5	>1960-1977	11	14.7	4	2.7	8.1	1.5-42.3	2.3-28.5
	>1977	0	0.0	0	0.0	-	-	-	>1977	0	0.0	0	0.0	-	-	-
Cumulative exposure (« f/ml-years »)	>0-0.1	56	15.5	170	23.5	3.6	1.9-7.1	2.2-6.0	>0-0.1	14	18.7	5	3.3	7.6	1.8-32.5	2.5-22.9
	>0.1-1	74	20.4	106	14.6	8.3	4.1-17.0	4.8-14.4	>0.1	16	21.3	5	3.3	18.8	2.5-141.4	4.0-87.2
	>1-10	108	29.8	65	9.0	19.2	9.2-39.9	11.0-33.5								
	>10	80	22.1	21	2.9	58.3	22.1-153.8	27.9-122.0								
ARp [CI]					78.5	70.5-86.4	72.4-84.5					36.3	20.7-51.8	24.4-46.1		
Greenland					78.7	70.0-87.3	72.1-85.2					36.3.	20.4-52.4	24.2-48.5		

Table 12 : Non occupational asbestos exposure and risk of pleural mesothelioma among subjects non exposed to occupational asbestos exposure, 45 cases (9 men; 36 women) and 90 controls (18 men; 72 women), French case-control study, 1998-2002 – 30-years lag period

Non occupational asbestos exposure		Men (60)							Women (120)								
		Cases (20)		Controls (40)		OR	99% CI	95% CI	Cases (40)		Controls (80)		OR	99% CI	95% CI		
		n	%	n	%				n	%	n	%					
Not exposed		15	75.0	36	90.0	1.0	-	-	25	62.5	65	81.2	1.0	-	-		
Exposed		5	25.0	4	10.0	3.7	0.4-33.7	0.7-19.9	15	37.5	15	18.8	10.4	1.4-75.0	2.3-46.8		
Highest probability of exposure		Possible		2	10.0	3	7.5	1.4	0.1-21.1	0.2-11.1	10	25.0	11	13.8	2.7	0.7-11.4	0.9-8.1
		Definite		3	15.0	1	2.5	-	-	5	12.5	4	5.0	3.2	0.5-19.5	0.8-12.7	
ARp [CI]		Bootstrap				18.1	-26.1-62.3	-15.5-51.7					24.9	-3.9-52.9	2.9-46.1		
		Greenland				16.7	-14.1-47.4	-6.7-40.0					24.5	-2.1-51.0	4.3-44.6		

Table 13 : All asbestos exposure and risk of pleural mesothelioma, 437 cases (362 men; 75 women) and 874 controls (724 men; 150 women), French case-control study, 1998-2002 – 30-years lag period

All asbestos exposure		Men (1 086)							Women (225)								
		Cases (362)		Controls (724)		OR	99% CI	95% Ci	Cases (75)		Controls (150)		OR	99% CI	95% CI		
		n	%	n	%				n	%	n	%					
Not exposed		34	9.4	318	43.9	1.0	-	-	27	36.0	109	72.7	1.0	-	-		
Exposed		328	90.6	406	56.1	9.5	5.2-17.4	6.0-15.0	48	64.0	41	27.3	6.2	2.4-16.5	3.0-13.1		
		Occupational only		264	80.5	315	77.6		22	45.8	8	19.5					
		Non occupational only		10	3.0	44	10.8		18	37.5	31	75.6					
		Both occupational and non occupational		54	16.5	47	11.6		8	16.7	2	4.9					
Highest probability of exposure		Possible		43	11.9	108	14.9	4.5	2.1-9.5	2.6-7.9	28	37.3	34	22.7	4.5	1.6-13.0	2.0-10.1
		Probable		285	78.7	298	41.2	11.5	6.2-21.2	7.2-18.3	20	26.7	7	4.6	11.2	3.0-41.7	4.1-30.4
ARp [CI]		Bootstrap				81.1	73.2-89.0	75.1-87.1					53.4	34.5-72.2	39.0-67.7		
		Greenland				80.9	71.9-89.9	74.1-87.4					54.2	34.3-74.0	39.1-69.2		