

PLEURAL MALIGNANT MESOTHELIOMA Piemonte, 1990-2015

Pleural malignant mesothelioma. Observed cases, standardized incidence rates (per 100,000 per year; standard: European population, EU27) and 95% confidence intervals by calendar period and sex.

INCIDENCE 1990-2015 (definite, probable and possible diagnoses)						
period	MEN			WOMEN		
	observed	rates	95% CI	observed	rates	CI 95%
1990-1994	244	2.7	2.4-3.1	143	1.2	1.0-1.4
1995-1999	447	4.8	4.3-5.2	239	1.9	1.7-2.2
2000-2004	590	5.9	5.5-6.4	345	2.6	2.3-2.9
2005-2009	670	6.3	5.8-6.7	376	2.7	2.4-2.9
2010-2014	737	6.5	6.0-6.9	359	2.3	2.1-2.6
2015	164	6.9	5.8-7.9	78	2.4	1.9-3.0

INCIDENCE 1990-2015 (definite diagnoses)						
period	MEN			WOMEN		
	observed	rates	95% CI	observed	rates	CI 95%
1990-1994	184	2.0	1.7-2.3	116	1.0	0.8-1.2
1995-1999	331	3.4	3.0-3.8	153	1.3	1.1-1.5
2000-2004	417	4.0	3.6-4.4	222	1.7	1.5-2.0
2005-2009	502	4.6	4.2-5.0	251	1.9	1.6-2.1
2010-2014	615	5.3	4.9-5.8	285	1.9	1.7-2.2
2015	136	5.7	4.7-6.7	62	2.0	1.5-2.5

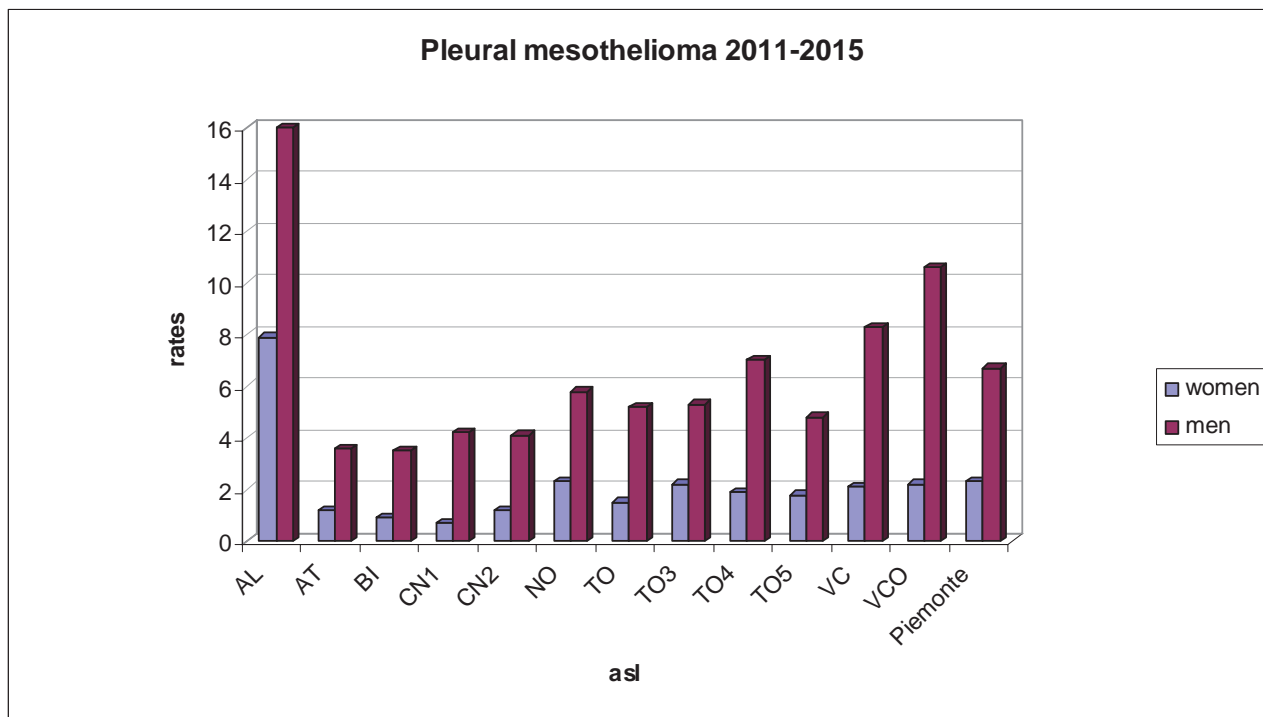
Pleural malignant mesothelioma. Observed cases, standardized incidence rates (per 100,000 per year; standard: European populationEU27) and 95% confidence intervals by area and sex. All diagnoses

INCIDENCE 2011-2015 (definite, probable and possible diagnoses)								
LOCAL DISTRICT	MEN				WOMEN			
	rates	95% CI		observed	rates	95% CI		observed
Regione Piemonte	6.7	6.2	7.2	775	2.3	2.1	2.6	359
AL/1 (Acqui Terme)	4.5	0.9	8.1	6	3.7	0.7	6.8	6
AL/2 (Alessandria)	6.7	4.0	9.5	23	3.0	1.3	4.7	13
AL/3 (Casale Monferrato)	54.4	45.1	63.8	131	3.1	24.7	37.3	99
Comune Casale Monferrato	79.8	61.6	98.1	74	48.9	37.5	62.2	67
AL/4 (Novi Ligure)	8.4	4.5	12.2	18	1.3	0.0	2.8	3
AL/5 (Ovada)	6.7	1.3	12.1	6	2.6	0.0	5.7	3
AL/6 (Tortona)	3.9	1.0	6.8	7	0.8	0.0	2.1	2
AL/7 (Valenza)	14.3	6.2	22.4	12	3.6	0.0	7.3	4
AT/1 (Asti centro)	4.0	1.2	6.8	8	1.3	0.0	2.7	4
AT/2 (Asti nord)	4.3	1.3	7.4	8	0.7	0.0	3.5	4
AT/3 (Asti sud-Nizza M.to)	2.3	0.0	4.5	4	0.6	0.0	1.9	1
BI/1 (Biella)	2.7	0.9	4.5	9	0.6	0.0	1.4	2
BI/2 (Cossato)	5.2	1.8	8.6	9	1.6	0.0	3.5	3
CN1/1 (Borgo San Dalmazzo)	3.7	1.1	6.3	8	0.3	0.0	0.8	1
CN1/2 (Ceva)	3.9	0.0	8.3	3	1.4	0.0	4.3	1
CN1/3 (Cuneo)	4.3	1.3	7.2	8	1.8	0.0	3.6	4
CN1/4 (Fossano)	6.9	3.4	10.4	15	0.9	0.0	2.0	2
CN1/5 (Mondovi)	2.3	0.0	4.5	4	0.0	0.0	0.0	0
CN1/6 (Saluzzo)	3.6	0.9	6.2	7	0.5	0.0	1.4	1
CN2/1 (Alba)	3.6	1.4	5.8	10	1.1	0.0	2.2	4
CN2/2 (Bra)	5.1	1.5	8.7	8	1.3	0.0	2.9	3
NO/1 (Arona)	6.4	2.9	9.9	13	1.9	0.2	3.6	5
NO/2 (Borgomanero)	2.8	0.3	5.3	5	1.7	0.0	3.4	4
NO/3 (Galliate-Trecate)	7	2.6	11.3	10	2.4	0.0	4.8	4
NO/4 (Novara)	6.2	3.5	9.0	20	2.8	1.2	4.5	12
TO1-10 (Torino)	5.2	4.3	6.2	118	1.5	1.1	1.9	58
TO3/1 (Collegno)	7.7	4.1	11.3	18	3.9	1.6	6.3	11
TO3/2 (Giaveno)	6.2	0.8	11.6	5	1.9	0.0	4.5	2
TO3/3 (Orbassano)	4.2	1.7	6.7	11	2.3	0.6	4.0	7
TO3/4 (Pinerolo)	4.0	1.5	6.5	10	1.6	0.0	3.2	4
TO3/5 (Rivoli)	7.6	3.3	12.0	12	3.5	0.9	6.2	7
TO3/6 (Susa)	4.2	1.6	6.9	10	0.8	0.0	1.7	3
TO3/7 (Val Pellice)	7.4	0.9	13.9	5	1.5	0.0	4.5	1
TO3/8 (Val Chisone e Germanasca)	1.8	0.0	5.3	1	0.0	0.0	0.0	0
TO3/9 (Venaria)	5.1	2.0	8.2	11	0.8	0.0	1.9	2
TO4/1 (Ciriè)	9.5	6.0	13.0	29	2.7	1.1	4.3	11
TO4/2 (Chivasso)	8.1	4.1	12.2	16	5.0	2.1	7.8	12
TO4/3 (Settimo Torinese)	7.6	3.3	12.0	12	1.9	0.2	3.5	5
TO4/4 (San Mauro Torinese)	7.5	2.2	12.8	8	0.0	0.0	0.0	0
TO4/5 (Ivrea)	7.0	4.1	10.0	22	1.1	0.0	2.2	4
TO4/6 (Cuorgnè)	4.6	1.6	7.6	9	1.2	0.0	2.7	3
TO5/1 (Carmagnola)	2.3	0.0	4.9	3	1.3	0.0	3.2	2
TO5/2 (Chieri)	5.4	2.5	8.2	14	1.5	0.2	2.8	5
TO5/3 (Moncalieri)	6.8	3.0	10.6	13	3.5	1.2	5.9	9
TO5/4 (Nichelino)	4.0	0.9	7.0	7	0.5	0.0	1.4	1
VC/1 (Vercelli-Santhià)	9.9	6.2	13.7	27	3.1	1.3	5.0	12
VC/2 (Montano-Borghesia-Varallo)	6.2	2.8	9.6	13	0.4	0.0	1.1	1
VCO/1 (Domodossola)	11.4	6.2	16.6	19	1.7	0.0	3.5	4
VCO/2 (Omegna)	5.3	1.1	9.5	6	1.6	0.0	3.5	3
VCO/3 (Verbania)	14.0	8.4	19.7	24	3.2	0.8	5.7	7

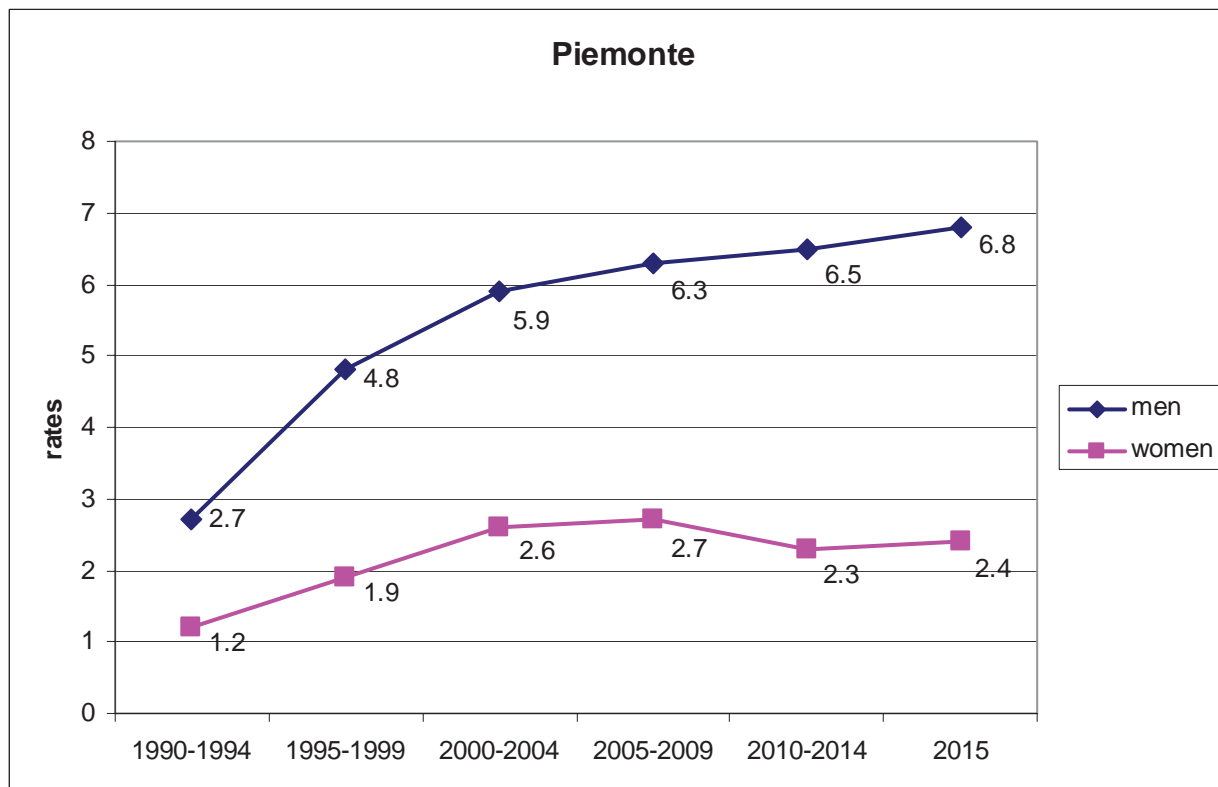
Pleural malignant mesothelioma. Observed cases, standardized incidence rates (per 100,000 per year; standard: European populationEU27) and 95% confidence intervals by area and sex. Definite diagnoses

INCIDENCE 2011-2015 (definite diagnoses)								
LOCAL DISTRICT	MEN				WOMEN			
	rates	95% CI		observed	rates	95% CI		observed
Regione Piemonte	5.5	5.1	6.0	646	1.9	1.7	2.2	288
AL/1 (Acqui Terme)	4.5	0.9	8.1	6	3.7	0.7	6.8	6
AL/2 (Alessandria)	5.6	3.1	8.1	19	2.6	1.0	4.2	11
AL/3 (Casale Monferrato)	48.6	39.8	57.4	117	25.5	19.7	31.4	77
Comune Casale Monferrato	71.9	54.7	89.2	67	40.2	28.9	51.4	52
AL/4 (Novi Ligure)	6.5	3.1	9.9	14	1.3	0.0	2.8	3
AL/5 (Ovada)	5.6	0.7	10.5	5	2.6	0.0	5.7	3
AL/6 (Tortona)	2.9	0.3	5.4	5	0.8	0.0	2.1	2
AL/7 (Valenza)	9.4	2.9	15.9	8	3.6	0.0	7.3	4
AT/1 (Asti centro)	3.4	0.9	6.0	7	1.1	0.0	2.3	3
AT/2 (Asti nord)	4.3	1.3	7.4	8	1.7	0.0	3.5	4
AT/3 (Asti sud-Nizza M.to)	2.3	0.0	4.5	4	0.0	0.0	0.0	0
BI/1 (Biella)	2.7	0.9	4.5	9	0.6	0.0	1.4	2
BI/2 (Cossato)	4.1	1.1	7.1	7	1.6	0.0	3.5	3
CN1/1 (Borgo San Dalmazzo)	3.1	0.8	5.3	7	0.3	0.0	0.8	1
CN1/2 (Ceva)	2.6	0.0	6.3	2	1.4	0.0	4.3	1
CN1/3 (Cuneo)	4.3	1.3	7.2	8	1.8	0.0	3.6	4
CN1/4 (Fossano)	5.8	2.7	9.0	13	0.4	0.0	1.3	1
CN1/5 (Mondovì)	1.7	0.0	3.6	3	0.0	0.0	0.0	0
CN1/6 (Saluzzo)	2.9	0.6	5.3	6	0.0	0.0	0.0	0
CN2/1 (Alba)	3.6	1.4	5.8	10	1.1	0.0	2.2	4
CN2/2 (Bra)	3.9	0.7	7.0	6	1.3	0.0	2.9	3
NO/1 (Arona)	6.4	2.9	9.9	13	1.9	0.2	3.6	5
NO/2 (Borgomanero)	1.1	0.0	2.6	2	1.7	0.0	3.4	4
NO/3 (Galliate-Trecale)	5.5	1.7	9.3	8	1.7	0.0	3.8	3
NO/4 (Novara)	5.6	3.0	8.2	18	2.6	1.0	4.1	11
TO1-10 (Torino)	4.4	3.5	5.3	100	1.2	0.8	1.6	41
TO3/1 (Collegno)	6.6	3.4	9.8	16	2.8	0.9	4.8	8
TO3/2 (Giaveno)	5.0	0.1	9.8	4	1.2	0.0	3.4	1
TO3/3 (Orbassano)	3.9	1.5	6.2	10	2.0	0.4	3.5	6
TO3/4 (Pinerolo)	3.2	1.0	5.4	8	1.6	0.0	3.2	4
TO3/5 (Rivoli)	4.9	1.5	8.3	8	3.1	0.6	5.6	6
TO3/6 (Susa)	3.3	1.0	5.5	8	0.8	0.0	1.7	3
TO3/7 (Val Pellice)	6.1	0.1	12.1	4	1.5	0.0	4.5	1
TO3/8 (Val Chisone e Germanasca)	1.8	0.0	5.3	1	0.0	0.0	0.0	0
TO3/9 (Venaria)	4.2	1.4	7.1	9	0.8	0.0	1.9	2
TO4/1 (Ciriè)	7.6	4.5	10.8	23	2.1	0.6	3.5	8
TO4/2 (Chivasso)	5.9	2.5	9.2	12	4.6	1.8	7.3	11
TO4/3 (Settimo Torinese)	4.1	1.2	7.0	8	1.2	0.0	2.6	3
TO4/4 (SanMAuro Torinese)	5.2	1.0	9.4	6	0.0	0.0	0.0	0
TO4/5 (Ivrea)	5.4	2.8	7.9	17	0.8	0.0	1.8	3
TO4/6 (Cuorgnè)	3.0	0.6	5.4	6	0.9	0.0	2.1	2
TO5/1 (Carmagnola)	2.3	0.0	4.9	3	1.3	0.0	3.2	2
TO5/2 (Chieri)	4.5	1.9	7.0	12	1.0	0.0	2.1	3
TO5/3 (Moncalieri)	5.9	2.4	9.5	11	2.7	0.7	4.8	7
TO5/4 (Nichelino)	4.0	0.9	7	7	0.5	0.0	1.4	1
VC/1 (Vercelli-Santhià)	7.6	4.3	10.8	21	2.4	0.8	4.0	9
VC/2 (Montano-Borghesio-Varallo)	5.8	2.5	9.1	12	0.4	0.0	1.1	1
VCO/1 (Domodossola)	9.5	4.8	14.2	16	1.7	0.0	3.5	4
VCO/2 (Omegna)	3.5	0.1	7.0	4	0.7	0.0	2.0	1
VCO/3 (Verbania)	9.1	4.7	13.6	16	2.9	0.5	5.3	6

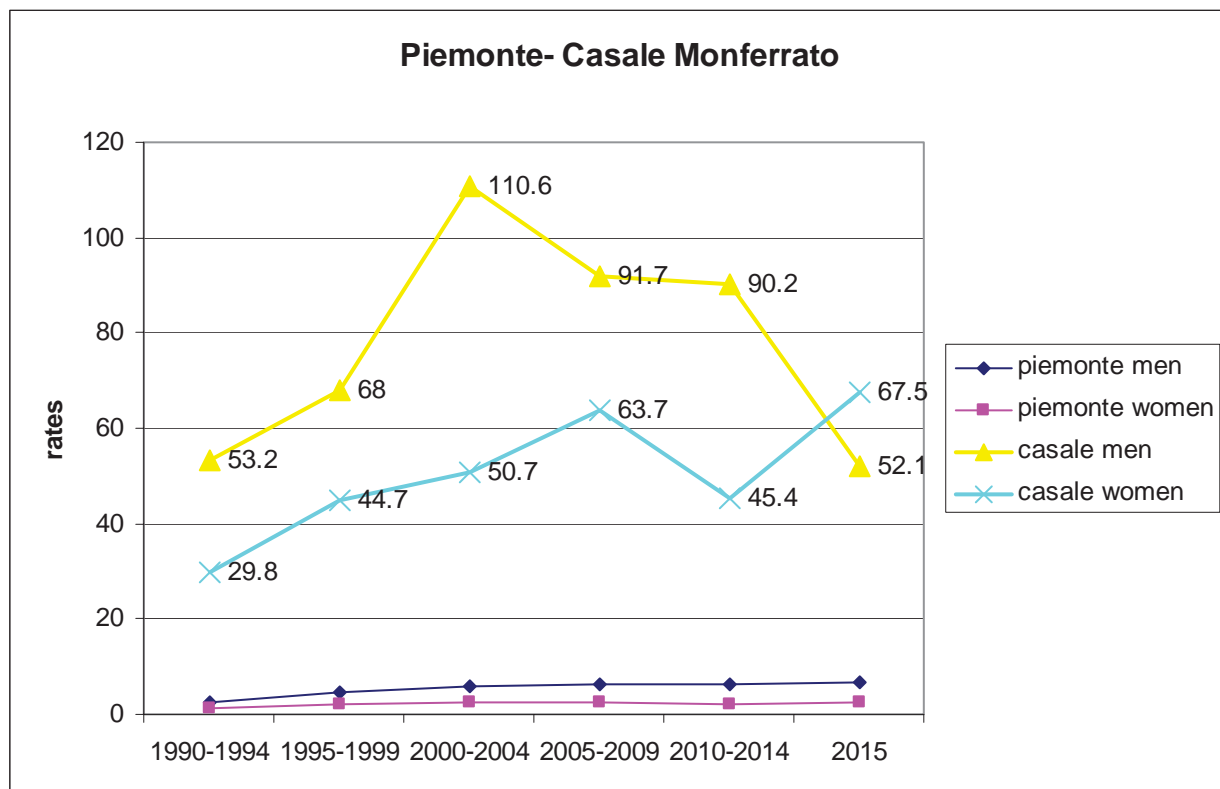
Pleural malignant mesothelioma. Incidence by sex and local health authority (all diagnoses) : Standardized rates (per 100,000 per year; standard: European population EU27) (Piemonte, 2011-2015)



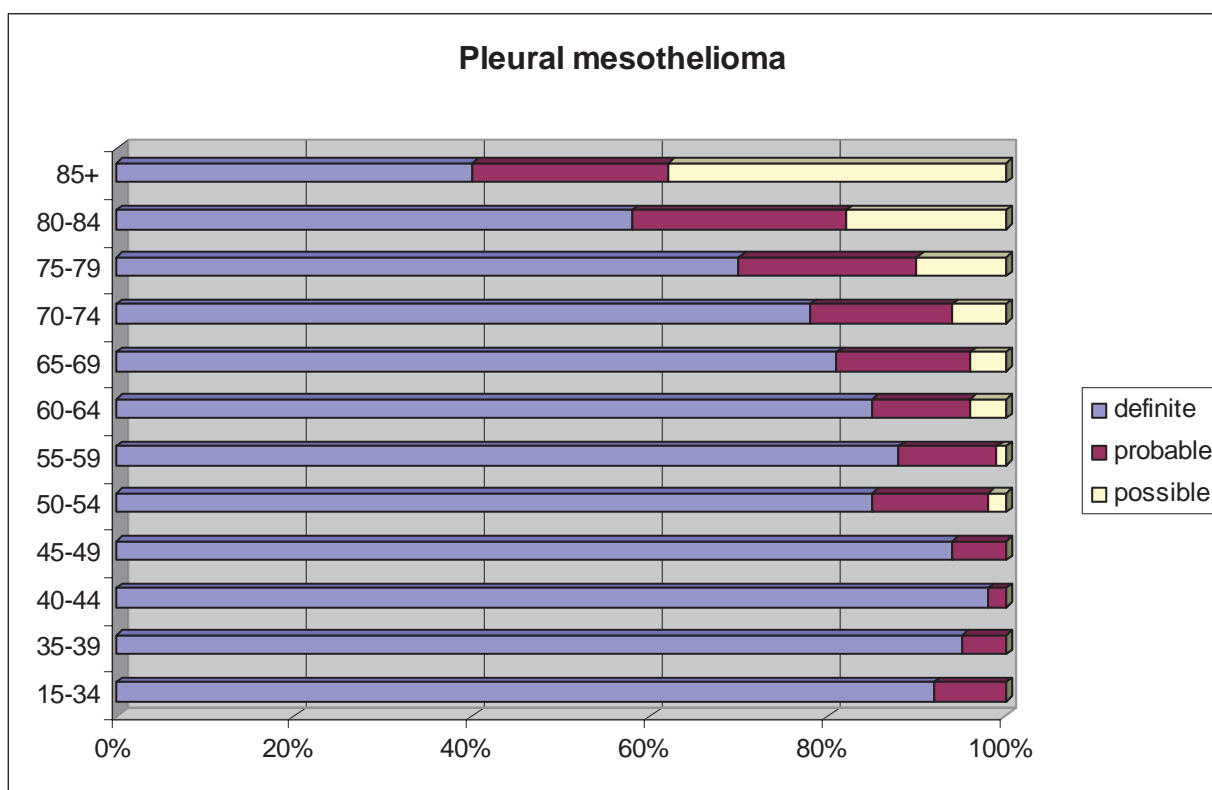
Pleural malignant mesothelioma. Regione Piemonte time trends by sex. All diagnoses. Standardized rates (per 100,000 per year; standard: European population EU27) and 95% confidence intervals (Piemonte, 1990-2015)



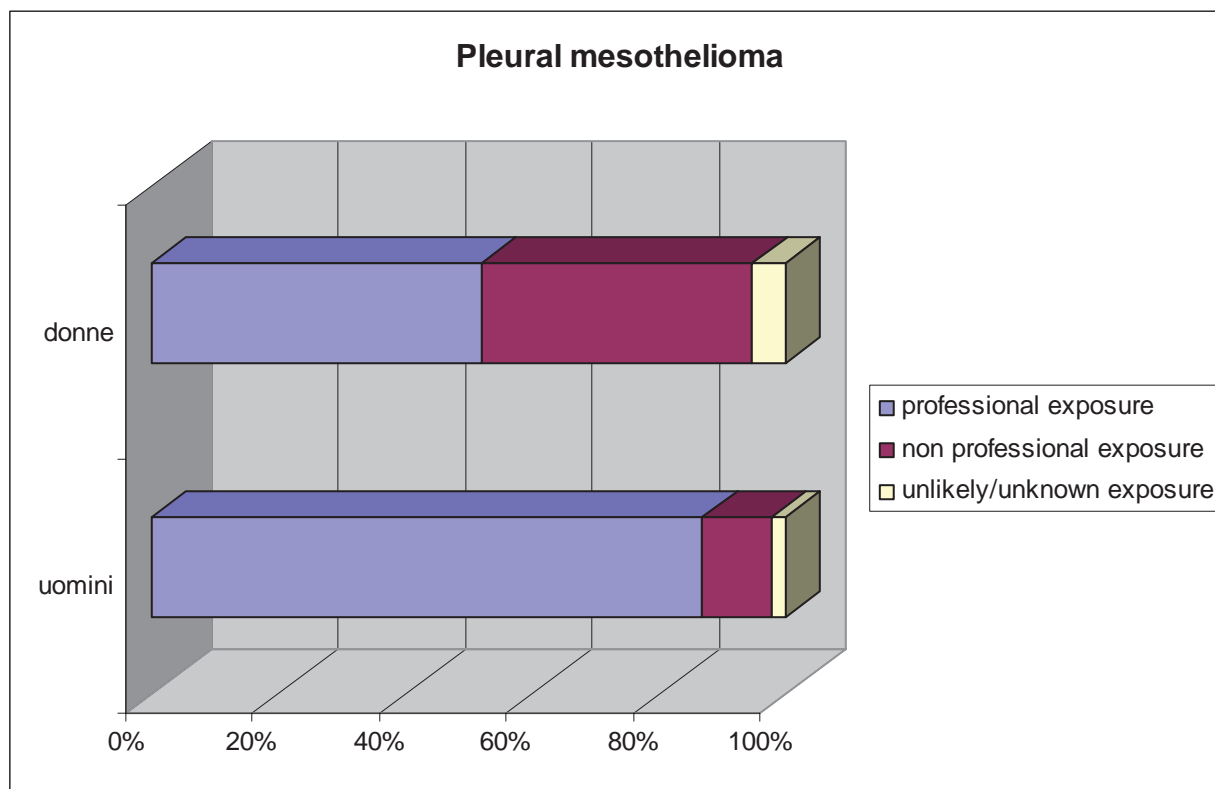
Pleural malignant mesothelioma. Regione Piemonte and Casale Monferrato time trends by sex. All diagnoses. Standardized rates (per 100,000 per year; standard: European population EU27) and 95% confidence intervals



Pleural malignant mesothelioma. Proportion by age class and diagnosis level (Piemonte, 1990-2015)



Pleural malignant mesothelioma. All diagnoses. Proportion by sex and exposure (Piemonte, 1990-2015)



Pleural malignant mesothelioma (observed cases with defined exposure) by exposure type and gender (Piemonte, 1990-2015)

	Men	Women	Total
Definite occupational exposure	1675	436	2111
	67.5%	34.2%	56.2%
Probable occupational exposure	79	26	105
	3.2%	2.0%	2.8%
Possible occupational exposure	400	202	602
	16.1%	15.8%	16.0%
Familial exposure	79	288	367
	3.2%	22.6%	9.8%
Environmental exposure	174	231	405
	7.0%	18.2%	10.8%
Other non-occupational exposures	19	26	45
	0.8%	2.0%	1.2%
Unlikely exposure	10	17	27
	0.4%	1.3%	0.7%
Unknown exposure	46	50	96
	1.8%	3.9%	2.5%
Total	2482	1276	3758

Median survival time and survival probability by calendar period

SURVIVAL 1990-2015							
period		median	Survival probability at :				
		(months)	6 months	1 yr	2 yrs	3 yrs	5 yrs
	1990-1994	8.5	63%	35%	15%	8%	2%
	1995-1999	8.5	60%	38%	16%	8%	4%
	2000-2004	10.0	66%	41%	17%	9%	4%
	2005-2009	11.2	71%	47%	20%	12%	5%
	2010-2014	11.1	70%	46%	20%	12%	5%
	2015	11.2	73%	46%	19%	10%	-

Median survival time and survival probability by age class

SURVIVAL 1990-2015							
age class		median	Survival probability at :				
		(months)	6 months	1 yr	2 yrs	3 yrs	5 yrs
	00-54	13.4	80%	53%	28%	19%	8%
	55-64	13.7	78%	55%	25%	15%	6%
	65-74	11.8	73%	49%	21%	10%	4%
	75+	7.1	55%	29%	11%	6%	2%

Median survival time and survival probability by histotype

SURVIVAL 1990-2015							
histotype		median	Survival probability at :				
		(months)	6 months	1 yr	2 yrs	3 yrs	5 yrs
	epithelioid	13.9	80%	56%	25%	14%	5%
	biphasic	9.6	69%	38%	12%	6%	2%
	sarcomatoid	5.0	42%	17%	5%	3%	2%
	not specified	7.2	56%	32%	13%	7%	4%
	unknown	3.4	33%	19%	11%	7%	4%