

## PLEURAL MALIGNANT MESOTHELIOMA Piemonte, 1990-2018

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

<b>INCIDENCE 1990-2018 (definite, probable and possible diagnoses)</b>						
	<b>MEN</b>			<b>WOMEN</b>		
<b>period</b>	<b>observed</b>	<b>rates</b>	<b>95% CI</b>	<b>observed</b>	<b>rates</b>	<b>95% CI</b>
1990-1994	245	2.7	2.4-3.1	140	1.2	1.0-1.4
1995-1999	446	4.8	4.3-5.2	238	1.9	1.7-2.2
2000-2004	589	5.9	5.4-6.4	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
2015-2018	662	6.8	6.3-7.3	336	2.6	2.3-2.9

<b>INCIDENCE 1990-2018 (definite diagnoses)</b>						
	<b>MEN</b>			<b>WOMEN</b>		
<b>period</b>	<b>observed</b>	<b>rates</b>	<b>95% CI</b>	<b>observed</b>	<b>rates</b>	<b>95% CI</b>
1990-1994	185	2.0	1.7-2.3	113	1.0	0.8-1.2
1995-1999	330	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
2015-2018	547	5.6	5.2-6.1	266	2.2	1.9-2.5

**Pleural malignant mesothelioma. Observed cases, standardized incidence rates ( per 100,000 per year; standard: European population, EU27) and 95% confidence intervals (CI) by calendar period and local health authority (2014-2018).**

<b>INCIDENCE 2014-2018 (definite, probable and possible diagnoses)</b>						
<b>local health authority</b>	<b>MEN</b>			<b>WOMEN</b>		
	<b>observed</b>	<b>rates</b>	<b>95% CI</b>	<b>observed</b>	<b>rates</b>	<b>95% CI</b>
AL	233	17.8	15.5-20.0	149	8.9	7.4-10.4
AT	29	5.0	3.2-6.8	13	1.7	0.8-2.7
BI	27	5.1	3.2-7.1	8	1.3	0.4-2.2
CN1	44	3.8	2.7-5.0	13	1.0	0.4-1.6
CN2	16	3.5	1.8-5.2	5	0.9	0.1-1.8
NO	54	6.0	4.4-7.6	29	2.3	1.5-3.2
TO	126	5.4	4.4-6.3	67	1.8	1.3-2.3
TO3	88	5.5	4.3-6.6	46	2.2	1.6-2.8
TO4	52	5.8	4.5-7.0	32	1.7	1.1-2.3
TO5	39	4.8	3.3-6.3	21	2.0	1.2-2.9
VC	38	7.7	5.3-10.2	15	2.3	1.1-3.5
VCO	42	11.1	7.8-14.5	16	3.0	1.5-4.5

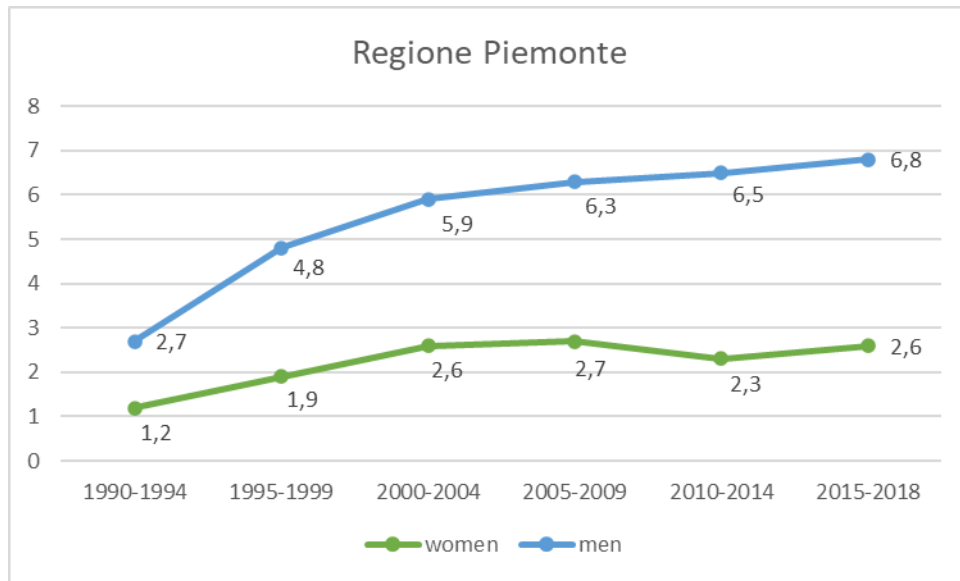
**Pleural malignant mesothelioma. Observed cases, standardized incidence rates ( per 100,000 per year; standard: European populationEU27) and 95% confidence intervals (CI) by area and sex. Definite diagnoses**

INCIDENCE 2014-2018 (definite diagnoses)								
LOCAL DISTRICT	WOMEN				MEN			
	rates	95% CI		observed	rates	95% CI		observed
Regione Piemonte	2.2	1.9	2.4	331	5.6	5.2	6.0	675
AL/1 (Acqui Terme)	0.6	0	1.6	1	4.6	0.9	8.3	6
AL/2 (Alessandria)	2.2	0.7	3.7	9	7.5	4.6	10.5	26
AL/3 (Casale Monferrato)	32.3	25.7	38.9	97	53.3	44.1	62.5	130
Comune Casale Monferrato	50.0	37.4	62.7	63	68.6	51.8	85.3	65
AL/4 (Novi Ligure)	1.7	0	3.4	4	7.1	3.6	10.6	16
AL/5 (Ovada)	2.4	0	5.8	2	7.6	1.9	13.2	7
AL/6 (Tortona)	0.3	0	0.9	1	3.7	1.0	6.5	7
AL/7 (Valenza)	5.0	0.6	9.3	5	3.5	5.8	21.2	12
AT/1 (Asti centro)	1.8	0.2	3.3	5	5.1	2.1	8.1	11
AT/2 (Asti nord)	1.4	0	3.0	3	4.6	1.6	7.6	9
AT/3 (Asti sud-Nizza M.to)	0.3	0	0.8	1	2.9	0.3	5.5	5
BI/1 (Biella)	1.2	0.1	2.3	5	3.8	1.7	5.9	13
BI/2 (Cossato)	1.0	0	2.3	2	6.2	2.5	9.9	11
CN1/1 (Borgo San Dalmazzo)	0.4	0	1.2	1	3.4	1.0	5.7	8
CN1/2 (Ceva)	1.4	0	4.2	1	1.2	0	3.6	1
CN1/3 (Cuneo)	1.2	0	2.7	3	5.1	1.9	8.3	10
CN1/4 (Fossano)	0.4	0	1.3	1	3.8	1.3	6.3	9
CN1/5 (Mondovì)	1.4	0	3.1	3	3.8	1.0	6.7	7
CN1/6 (Saluzzo)	0.4	0	1.3	1	1.8	0	3.6	4
CN2/1 (Alba)	0.9	0	1.9	3	2.7	0.8	4.5	8
CN2/2 (Bra)	1.0	0	2.4	2	3.0	0.3	5.7	5
NO/1 (Arona)	2.1	0.4	3.8	6	4.7	1.8	7.7	10
NO/2 (Borgomanero)	0.8	0	2.0	2	4.7	1.6	7.7	9
NO/3 (Galliate-Trecate)	2.4	0.2	4.6	5	8.7	4.0	13.5	13
NO/4 (Novara)	2.7	1.2	4.3	12	4.5	2.3	6.8	16
TO1-10 (Torino)	1.6	1.1	2.0	53	4.4	3.5	5.2	102
TO3/1 (Collegno)	4.3	2.1	0.6	14	6.4	3.3	9.6	16
TO3/2 (Giaveno)	1.2	0	3.5	1	3.6	0	7.6	3
TO3/3 (Orbassano)	2.9	1.0	4.8	9	3.0	0.9	5.2	8
TO3/4 (Pinerolo)	1.1	0	2.4	3	3.1	0.9	5.2	8
TO3/5 (Rivoli)	1.5	0	3.1	3	4.1	1.0	7.2	7
TO3/6 (Susa)	1.8	0.3	3.2	6	2.3	0.5	4.1	6
TO3/7 (Val Pellice)	2.2	0	5.4	2	4.6	0	9.9	3
TO3/8 (Val Chisone e Germanasca)	0	0	0	0	0	0	0	0
TO3/9 (Venaria)	0.4	0	1.2	1	5.0	2.0	8.1	11
TO4/1 (Ciriè)	2.1	0.6	3.5	8	4.2	2.0	6.5	14
TO4/2 (Chivasso)	2.6	0.6	4.5	7	7.1	3.5	10.8	15
TO4/3 (Settimo Torinese)	0.7	0	1.7	2	2.5	0.5	4.5	6
TO4/4 (San Mauro Torinese)	0	0	0	0	1.7	0	4.0	2
TO4/5 (Ivrea)	1.3	0.1	2.4	5	6.3	3.6	9.0	21
TO4/6 (Cuorgnè)	0.5	0	1.2	2	3.6	1.1	6.0	8
TO5/1 (Carmagnola)	1.3	0	3.0	2	2.3	0	4.8	3
TO5/2 (Chieri)	1.9	0.4	3.4	6	2.9	0.9	4.9	8
TO5/3 (Moncalieri)	2.7	0.7	4.7	7	7.7	3.9	11.5	16
TO5/4 (Nichelino)	0.8	0	2.0	2	3.2	0.8	5.5	7
VC/1 (Vercelli-Santhià)	2.7	1.0	4.5	10	7.5	4.3	10.8	21
VC/2 (Montano-Borghesia-Varallo)	0.5	0	1.3	1	4.7	1.8	7.6	10
VCO/1 (Domodossola)	1.5	0	3.3	3	9.6	4.5	14.6	14
VCO/2 (Omegna)	2.7	0	5.7	3	1.1	0	3.2	1
VCO/3 (Verbania)	3.1	0	5.7	6	8.2	3.6	12.9	12

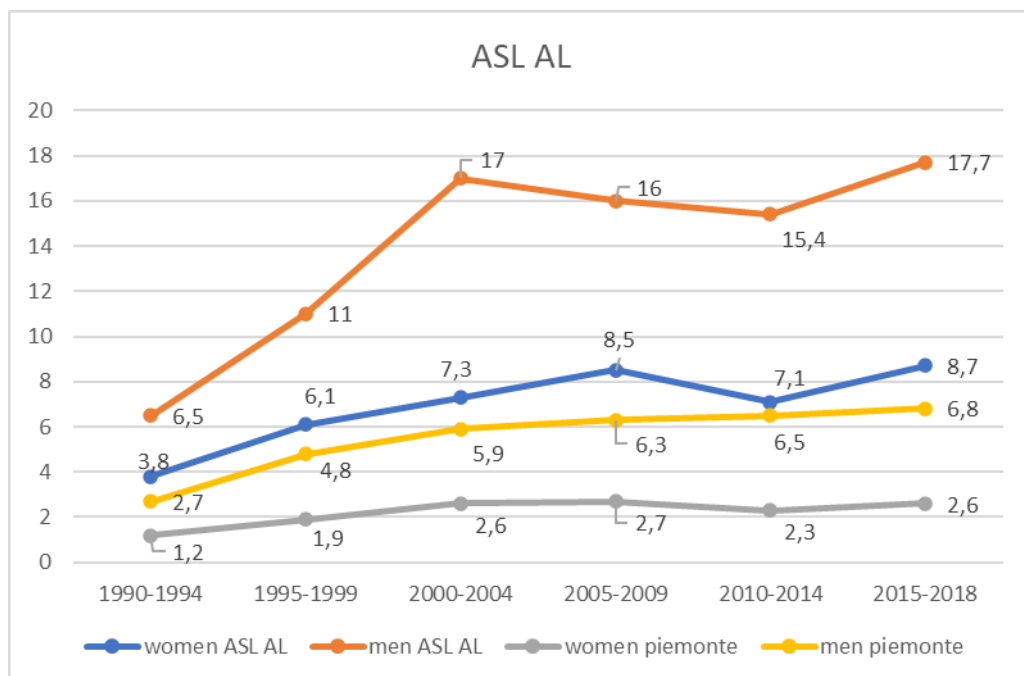
**Pleural malignant mesothelioma. Observed cases, standardized incidence rates ( per 100,000 per year; standard: European populationEU27) and 95% confidence intervals (CI) by area and sex. All diagnoses**

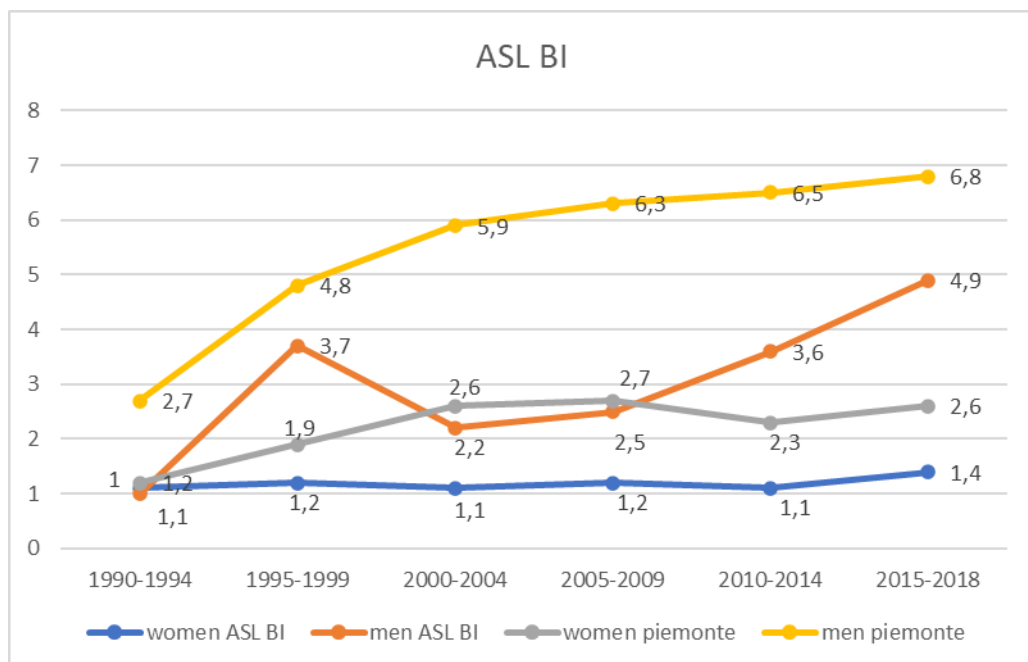
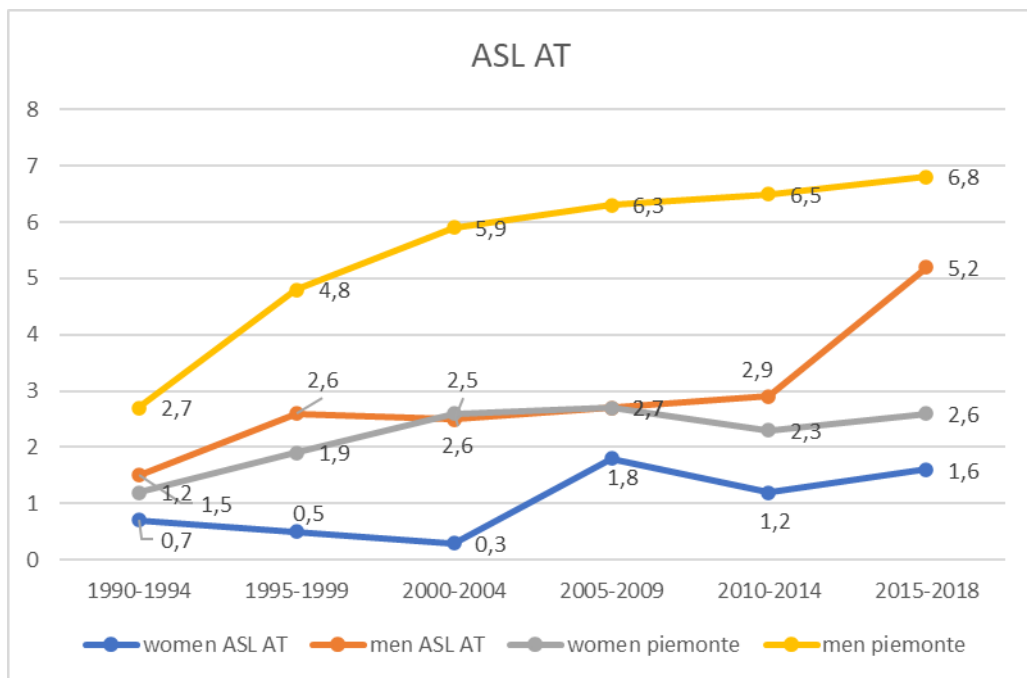
INCIDENCE 2014-2018 (definite, probable and possible diagnoses)								
LOCAL DISTRICT	WOMEN				MEN			
	rates	95% CI		observed	rates	95% CI		observed
Regione Piemonte	2.5	2.3	2.8	414	6.8	6.3	7.3	818
AL/1 (Acqui Terme)	0.9	0	2.1	2	4.6	0.9	8.3	6
AL/2 (Alessandria)	3.2	1.4	4.9	14	8.4	5.3	11.4	29
AL/3 (Casale Monferrato)	36.8	29.9	43.7	119	59.2	49.5	68.9	144
Comune Casale Monferrato	57.3	44.1	70.5	77	74.6	57.0	92.1	70
AL/4 (Novi Ligure)	1.9	0.2	3.7	5	9.4	5.4	13.5	21
AL/5 (Ovada)	2.4	0	5.8	2	7.6	1.9	13.2	7
AL/6 (Tortona)	0.3	0	0.9	1	4.7	1.6	7.8	9
AL/7 (Valenza)	5.5	1.0	10.0	6	19.1	9.9	28.2	17
AT/1 (Asti centro)	2.0	0.4	3.7	6	5.5	2.4	8.7	12
AT/2 (Asti nord)	2.1	0.2	4.0	5	5.6	2.3	8.9	11
AT/3 (Asti sud-Nizza M.to)	0.9	0	2.3	2	3.6	0.7	6.5	6
BI/1(Biella)	1.5	0.3	2.7	6	4.1	1.9	6.2	14
BI/2 (Cossato)	1.0	0	2.3	2	7.3	3.3	11.3	13
CN1/1 (Borgo San Dalmazzo)	0.4	0	1.2	1	3.4	1.0	5.7	8
CN1/2 (Ceva)	2.2	0	5.3	2	1.2	0	3.6	1
CN1/3 (Cuneo)	1.2	0	2.7	3	5.6	2.3	8.9	11
CN1/4 (Fossano)	1.1	0	2.4	3	4.8	1.9	7.6	11
CN1/5 (Mondovi)	1.4	0	3.1	3	5.0	1.7	8.2	9
CN1/6 (Saluzzo)	0.4	0	1.3	1	1.8	0	3.6	4
CN2/1 (Alba)	0.9	0	1.9	3	3.4	1.3	5.5	10
CN2/2 (Bra)	1.0	0	2.4	2	3.6	0.7	6.5	6
NO/1 (Arona)	2.1	0.4	3.8	6	5.6	2.4	8.8	12
NO/2 (Borgomanero)	1.3	0	2.7	4	5.7	2.3	9.1	11
NO/3 (Galliate-Trecate)	2.4	0.2	4.6	5	9.4	4.5	14.4	14
NO/4 (Novara)	3.0	1.4	4.6	14	4.8	2.5	7.1	17
TO1-10 (Torino)	1.8	1.3	2.3	67	5.4	4.4	6.3	126
TO3/1 (Collegno)	1.3	2.1	6.6	14	8.4	4.8	12.1	21
TO3/2 (Giaveno)	1.2	0	3.5	1	4.7	0.1	9.3	4
TO3/3 (Orbassano)	2.9	1.0	4.8	9	5.7	2.6	8.7	14
TO3/4 (Pinerolo)	1.1	0	2.4	3	3.5	1.2	5.8	9
TO3/5 (Rivoli)	2.3	0.3	4.3	5	5.4	1.8	9.0	9
TO3/6 (Susa)	2.5	0.8	4.1	9	5.1	2.2	8.0	12
TO3/7 (Val Pellice)	2.2	0	5.4	2	7.1	0.8	13.3	5
TO3/8 (Val Chisone e Germanasca)	0.8	0	2.3	1	1.4	0	4.2	1
TO3/9 (Venaria)	0.7	0	1.7	2	6.0	2.7	9.4	13
TO4/1 (Ciriè)	2.6	1.1	4.2	11	5.7	3.1	8.2	19
TO4/2 (Chivasso)	3.2	1.1	5.3	9	8.8	4.7	12.9	18
TO4/3 (Settimo Torinese)	1.4	0	2.7	4	3.6	1.1	6.1	8
TO4/4 (San Mauro Torinese)	0	0	0	0	2.5	0	5.4	3
TO4/5 (Ivrea)	1.3	0.1	2.4	5	7.3	4.4	10.3	24
TO4/6 (Cuornè)	0.9	0	1.9	3	4.5	1.7	7.4	10
TO5/1(Carmagnola)	1.3	0	3.0	2	2.3	0	4.8	3
TO5/2 (Chieri)	2.1	0.5	3.6	7	4.5	1.9	7.0	12
TO5/3 (Moncalieri)	3.0	0.9	5.1	8	8.2	4.3	12.1	17
TO5/4 (Nichelino)	1.6	0	3.2	4	3.2	0.8	5.5	7
VC/1(Vercelli-Santhià)	3.4	1.5	5.4	13	9.0	5.4	12.5	25
VC/2 (Montano-Borghesia-Varallo)	0.7	0	1.6	2	6.0	2.7	9.3	13
VCO/1(Domodossola)	1.5	0	3.3	3	12.6	6.7	18.4	18
VCO/2 (Omegna)	3.7	0.4	7.1	5	2.1	0	5.1	2
VCO/3 (Verbania)	3.9	1.1	6.8	8	15.6	9.0	22.1	22

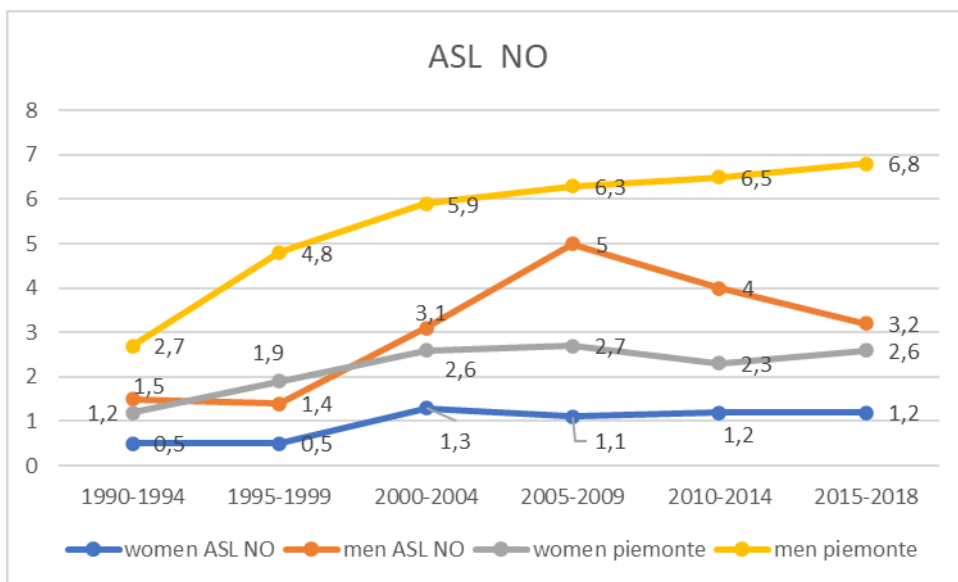
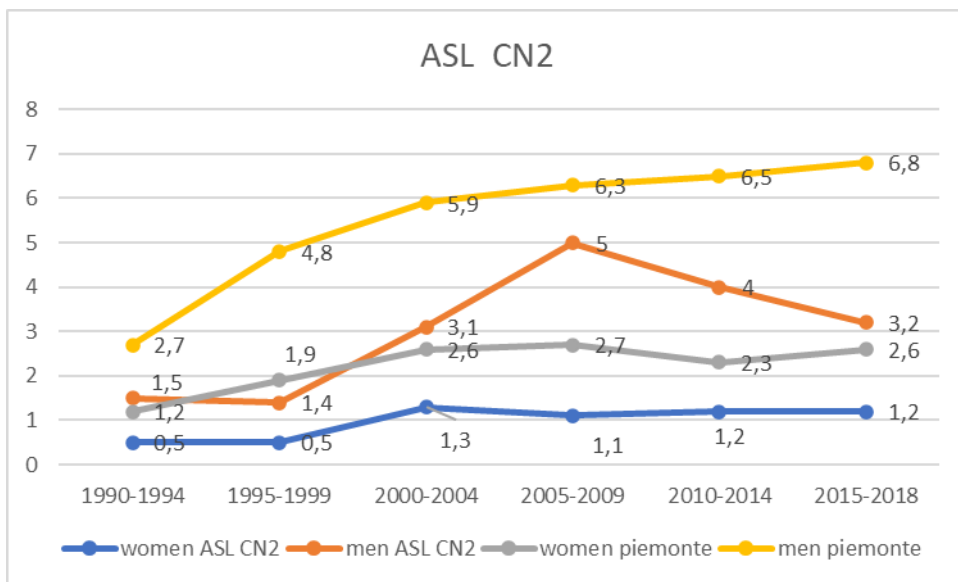
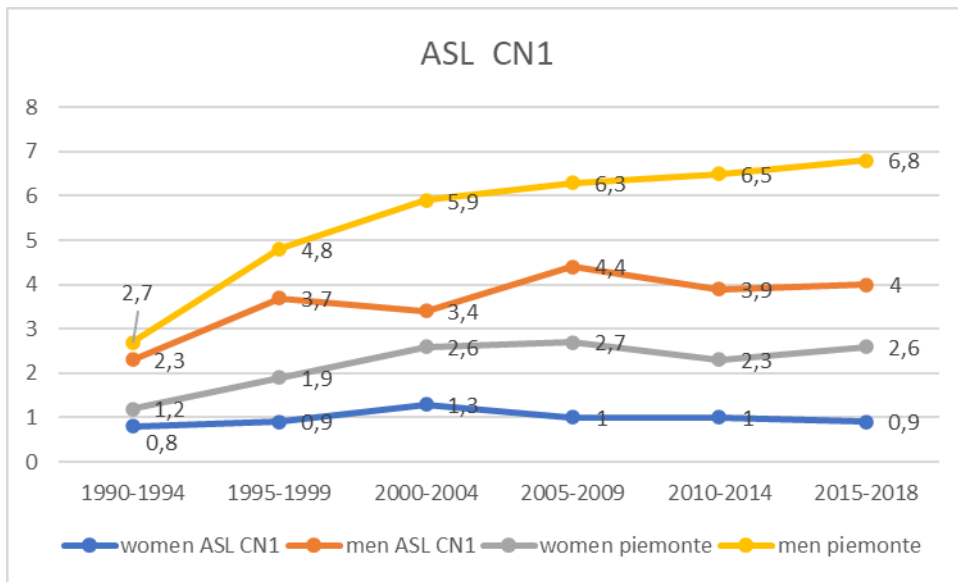
**Pleural malignant mesothelioma. Regione Piemonte, time trends by sex. All diagnoses. Standardized rates (per 100,000 per year; standard: European population EU27) 1990-2018**

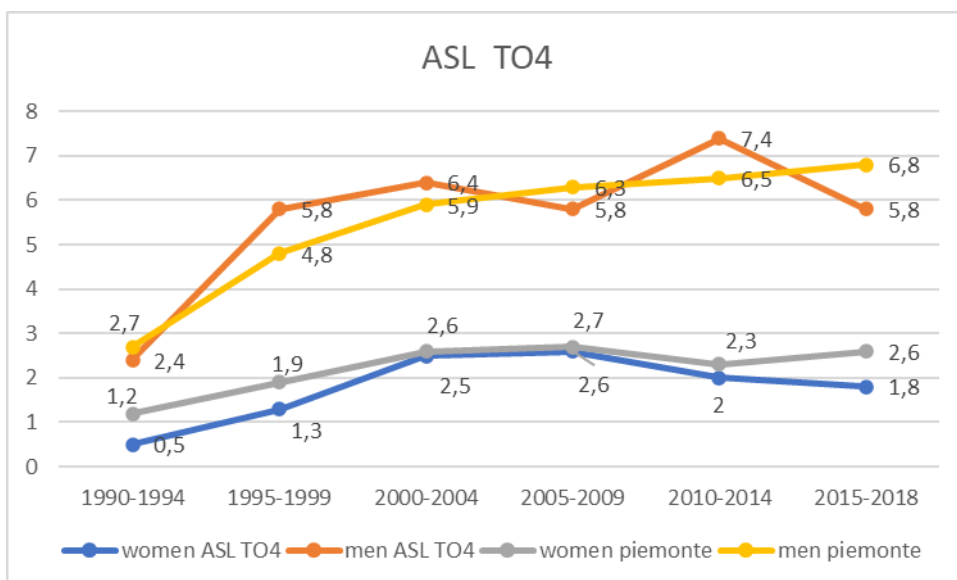
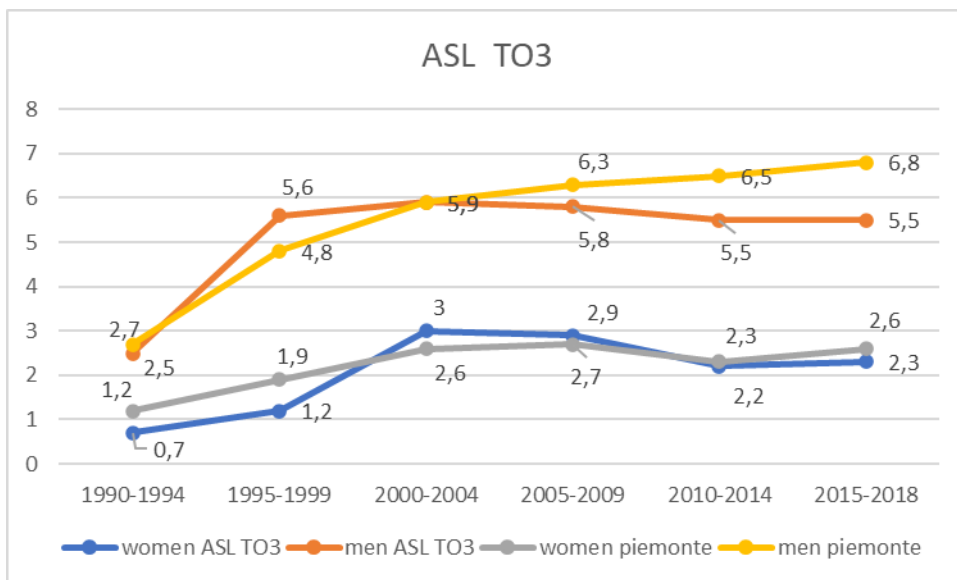
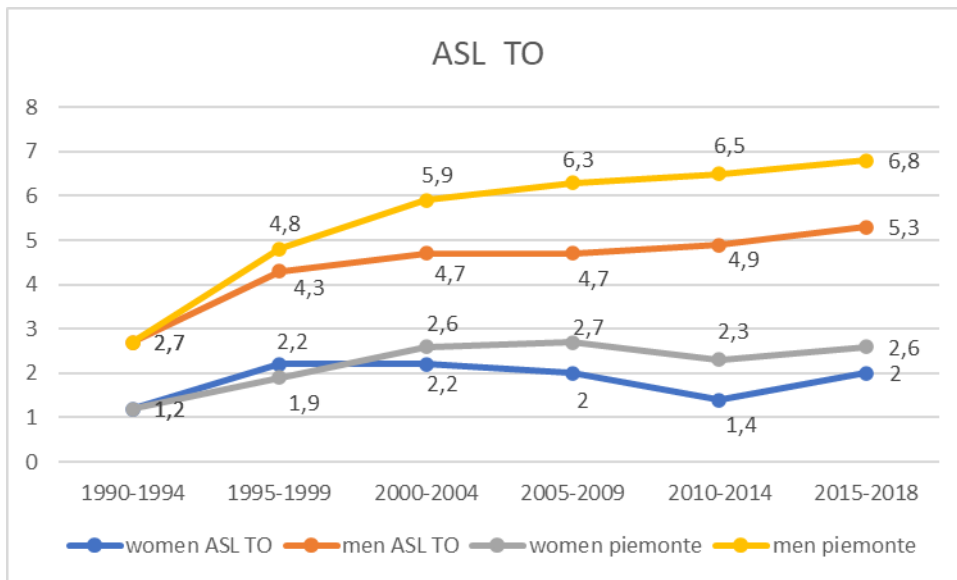


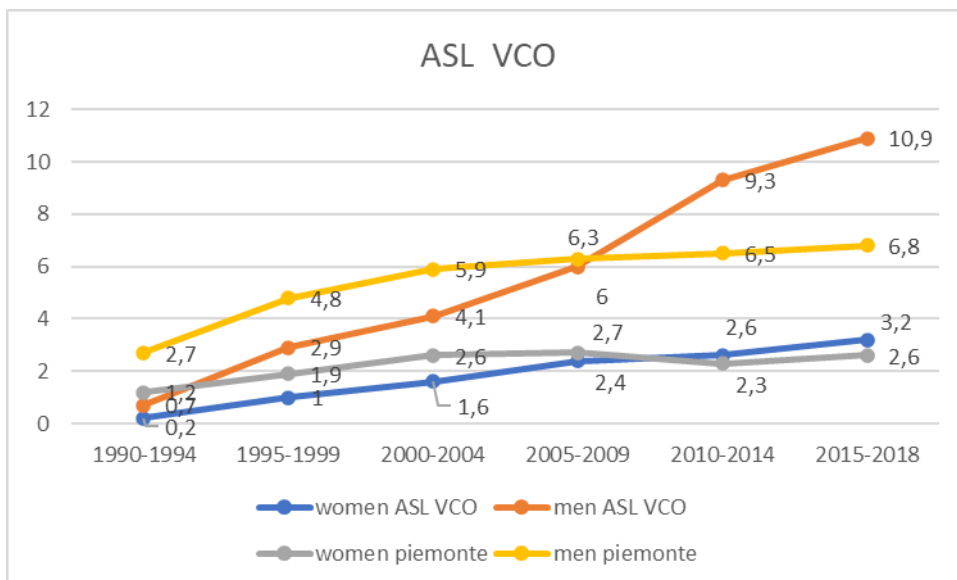
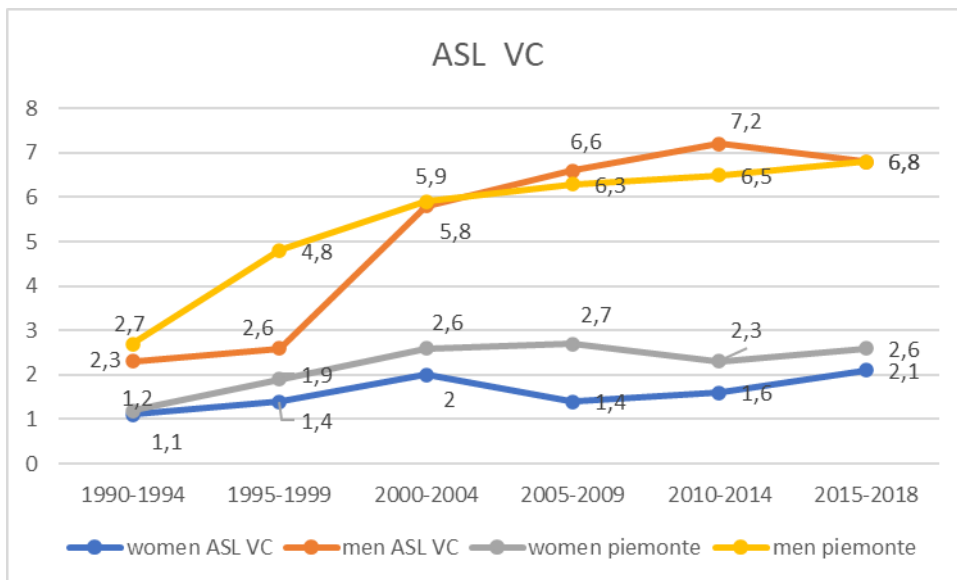
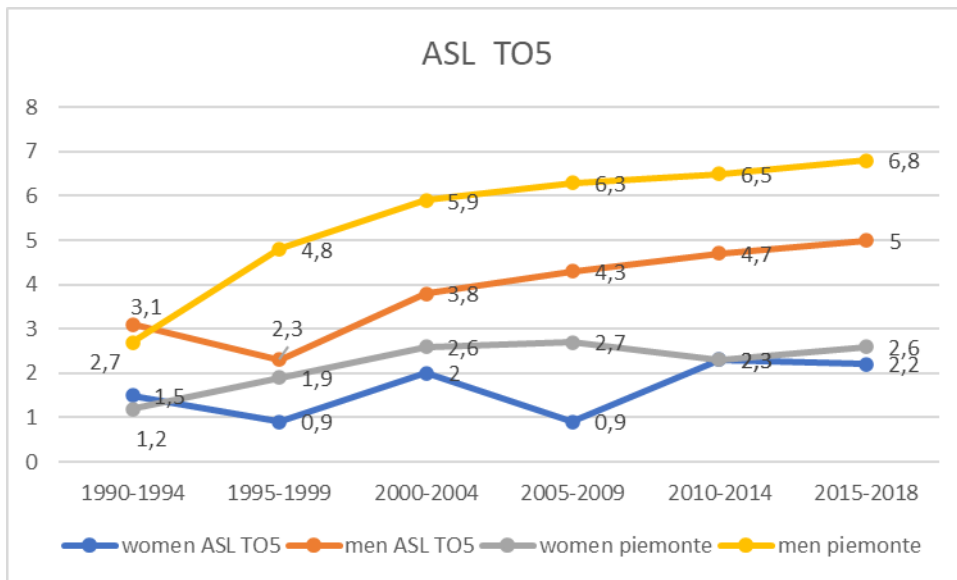
**Pleural malignant mesothelioma. Regione Piemonte, time trends by sex and local health authority. All diagnoses. Standardized rates (per 100,000 per year; standard: European population EU27) 1990-2018**













## SURVIVAL

### Median survival time and survival probability by calendar period

SURVIVAL 1990-2018							
period	median (months)	Survival probability at :					
		6 months	1 yr	2 yrs	3 yrs	5 yrs	
1990-1994	8.6	64%	35%	15%	8%	3%	
1995-1999	8.7	61%	39%	16%	8%	4%	
2000-2004	10.0	66%	41%	17%	9%	4%	
2005-2009	11.1	71%	47%	20%	12%	5%	
2010-2014	11.0	70%	46%	20%	11%	5%	
2015-2018	11.0	68%	46%	21%	11%	6%	

### Median survival time and survival probability by age class

SURVIVAL 1990-2018							
age class	median (months)	Survival probability at :					
		6 months	1 yr	2 yrs	3 yrs	5 yrs	
00-54	13.5	81%	54%	29%	19%	9%	
55-64	13.6	78%	56%	26%	15%	7%	
65-74	12.3	74%	51%	22%	11%	5%	
75+	7.1	54%	30%	11%	6%	2%	

### Median survival time and survival probability by histotype

SURVIVAL 1990-2018							
histotype	median (months)	Survival probability at :					
		6 months	1 yr	2 yrs	3 yrs	5 yrs	
epithelioid	14.1	80%	57%	26%	14%	6%	
biphasic	9.5	69%	37%	13%	5%	2%	
sarcomatoid	4.8	41%	17%	5%	3%	2%	
not specified	6.9	55%	31%	12%	7%	4%	
unknown	3.1	31%	16%	9%	6%	3%	