

## PLEURAL MALIGNANT MESOTHELIOMA Piemonte, 1990-2017

**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 1990-2017 (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	246	2.7	2.4-3.1	141	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	671	6.3	5.8-6.7	375	2.7	2.4-2.9
2010-2014	737	6.5	6.0-6.9	360	2.3	2.1-2.6
2015-2017	491	6.7	6.1-7.3	257	2.7	2.4-3.1

<b>INCIDENCE 1990-2017 (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	114	1.0	0.8-1.2
1995-1999	331	3.4	3.0-3.8	154	1.3	1.1-1.5
2000-2004	418	4.0	3.6-4.4	222	1.7	1.5-2.0
2005-2009	502	4.6	4.2-5.0	250	1.9	1.6-2.1
2010-2014	615	5.3	4.9-5.8	286	1.9	1.7-2.2
2015-2017	407	5.6	5.0-6.1	207	2.3	2.0-2.6

**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 (2013-2017).**

<b>INCIDENCE 2013-2017 (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	232	17.8	15.5-20.1	148	8.9	7.4-10.4
AT	23	4.0	2.4-5.7	9	1.3	0.4-2.1
BI	23	4.5	2.6-6.3	7	1.1	0.3-2.0
CN1	43	3.8	2.7-5.0	14	1.1	0.5-1.7
CN2	17	3.6	1.9-5.3	5	0.9	0.1-1.7
NO	57	6.4	4.7-8.1	31	2.7	1.7-3.6
TO	129	5.5	4.6-6.5	59	1.6	1.1-2.0
TO3	94	5.9	4.7-7.1	44	2.2	1.5-2.9
TO4	88	6.4	5.1-7.8	33	1.9	1.2-2.6
TO5	36	4.4	2.9-5.8	19	1.9	1.1-2.8
VC	43	9.0	6.3-11.6	15	2.3	1.1-3.5
VCO	46	10.0	7.1-12.9	13	2.1	0.9-3.2

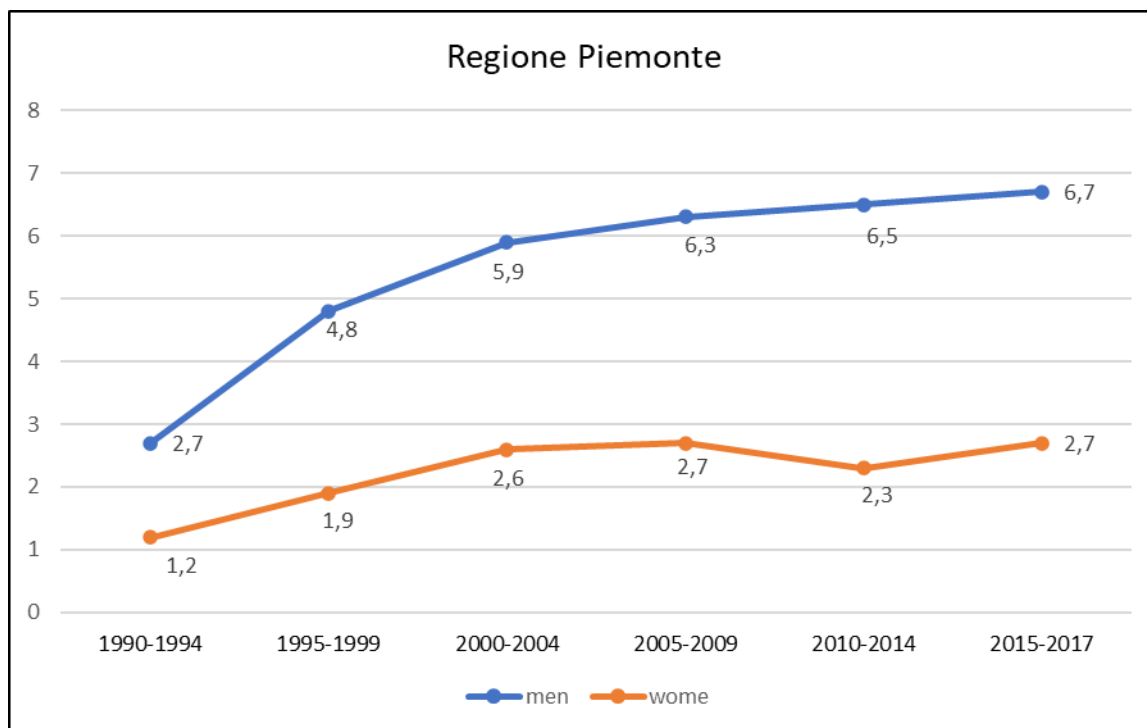
**Pleural malignant mesothelioma. Observed cases, standardized incidence rates ( per 100,000 per year; standard: European populationEU27) and 95% confidence intervals (CI) by area and sex. Definite diagnoses**

INCIDENCE 2013-2017 (definite diagnoses)								
LOCAL DISTRICT	WOMEN				MEN			
	rates	95% CI		observed	rates	95% CI		observed
Regione Piemonte	2.1	1.9	2.4	323	5.7	5.2	6.1	681
AL/1 (Acqui Terme)	2.2	0	4.4	4	4.7	0.9	8.4	6
AL/2 (Alessandria)	2.1	0.6	3.6	8	7.0	4.2	9.8	24
AL/3 (Casale Monferrato)	32.0	25.4	38.5	97	54.1	44.8	63.4	132
Comune Casale Monferrato	52.6	39.7	65.6	67	72.1	54.9	89.3	68
AL/4 (Novi Ligure)	2.0	0.2	3.8	5	6.3	3.0	9.6	14
AL/5 (Ovada)	3.8	0	7.7	4	7.4	1.9	12.9	7
AL/6 (Tortona)	0	0	0	0	3.8	1.0	6.6	7
AL/7 (Valenza)	4.4	0.4	8.4	5	10.3	3.6	17.1	9
AT/1 (Asti centro)	1.8	0.2	3.4	5	3.3	0.9	5.8	7
AT/2 (Asti nord)	1.0	0	2.3	2	5.3	2.0	8.6	10
AT/3 (Asti sud-Nizza M.to)	0	0	0	0	1.7	0	3.7	3
BI/1(Biella)	0.7	0	1.5	3	3.6	1.6	5.7	12
BI/2 (Cossato)	1.5	0	3.3	3	4.6	1.4	7.7	8
CN1/1 (Borgo San Dalmazzo)	0.4	0	1.2	1	1.7	0	3.4	4
CN1/2 (Ceva)	1.4	0	4.1	1	1.2	0	3.6	1
CN1/3 (Cuneo)	1.7	0	3.4	4	4.1	1.3	6.9	8
CN1/4 (Fossano)	0.9	0	2.1	2	5.2	2.3	8.2	12
CN1/5 (Mondovi)	0.9	0	2.2	2	2.7	0.3	5.0	5
CN1/6 (Saluzzo)	0	0	0	0	3.2	0.8	5.6	7
CN2/1 (Alba)	0.9	0	1.9	3	3.7	1.5	5.9	11
CN2/2 (Bra)	0.9	0	2.2	2	2.9	0.3	5.5	5
NO/1 (Arona)	2.5	0.6	4.4	7	5.8	2.5	9.1	12
NO/2 (Borgomanero)	1.7	0	3.4	4	2.6	0.3	4.8	5
NO/3 (Galliate-Trecate)	2.5	0.2	4.7	5	9.3	4.4	14.1	14
NO/4 (Novara)	2.7	1.1	4.3	11	5.5	3.0	8.1	19
TO1-10 (Torino)	1.3	0.9	1.7	44	4.7	3.8	5.6	109
TO3/1 (Collegno)	3.6	1.5	5.7	11	7.2	3.9	10.5	18
TO3/2 (Giaveno)	2.3	0	5.6	2	3.7	0	7.8	3
TO3/3 (Orbassano)	3.0	1.0	4.9	9	3.4	1.2	5.6	9
TO3/4 (Pinerolo)	0.7	0	1.7	2	4.0	1.5	6.4	10
TO3/5 (Rivoli)	2.6	0.3	4.8	5	4.2	1.1	7.4	7
TO3/6 (Susa)	1.7	0.3	3.1	6	3.5	1.2	5.8	9
TO3/7 (Val Pellice)	2.2	0	5.4	2	4.5	0	9.7	3
TO3/8 (Val Chisone e Germanasca)	0	0	0	0	0	0	0	0
TO3/9 (Venaria)	0.8	0	1.8	2	4.9	1.8	8.0	10
TO4/1 (Ciriè)	2.1	0.6	3.5	8	4.4	2.1	6.7	14
TO4/2 (Chivasso)	3.9	1.5	6.4	10	6.9	3.3	10.5	14
TO4/3 (Settimo Torinese)	0.7	0	1.8	2	2.2	0.3	4.2	5
TO4/4 (San Mauro Torinese)	0	0	0	0	5.0	1.0	9.1	6
TO4/5 (Ivrea)	1.0	0	2.0	4	6.2	3.4	8.9	20
TO4/6 (Cuorgnè)	1.1	0	2.6	3	2.3	0.3	4.4	5
TO5/1(Carmagnola)	1.3	0	3.1	2	2.3	0	4.8	3
TO5/2 (Chieri)	1.7	0.2	3.2	5	2.8	0.9	4.8	8
TO5/3 (Moncalieri)	2.5	0.5	4.5	6	7.4	3.6	11.2	15
TO5/4 (Nichelino)	0.4	0	1.2	1	2.3	0.3	4.4	5
VC/1(Vercelli-Santhià)	2.5	0.8	4.1	9	8.6	5.2	12.1	24
VC/2 (Montano-Borghesia-Varallo)	0.8	0	1.9	2	5.9	2.6	9.2	12
VCO/1(Domodossola)	1.7	0	3.5	4	9.0	4.5	13.4	16
VCO/2 (Omegna)	1.5	0	3.5	2	0	0	0	0
VCO/3 (Verbania)	1.8	0	3.6	4	7.9	3.7	12.0	14

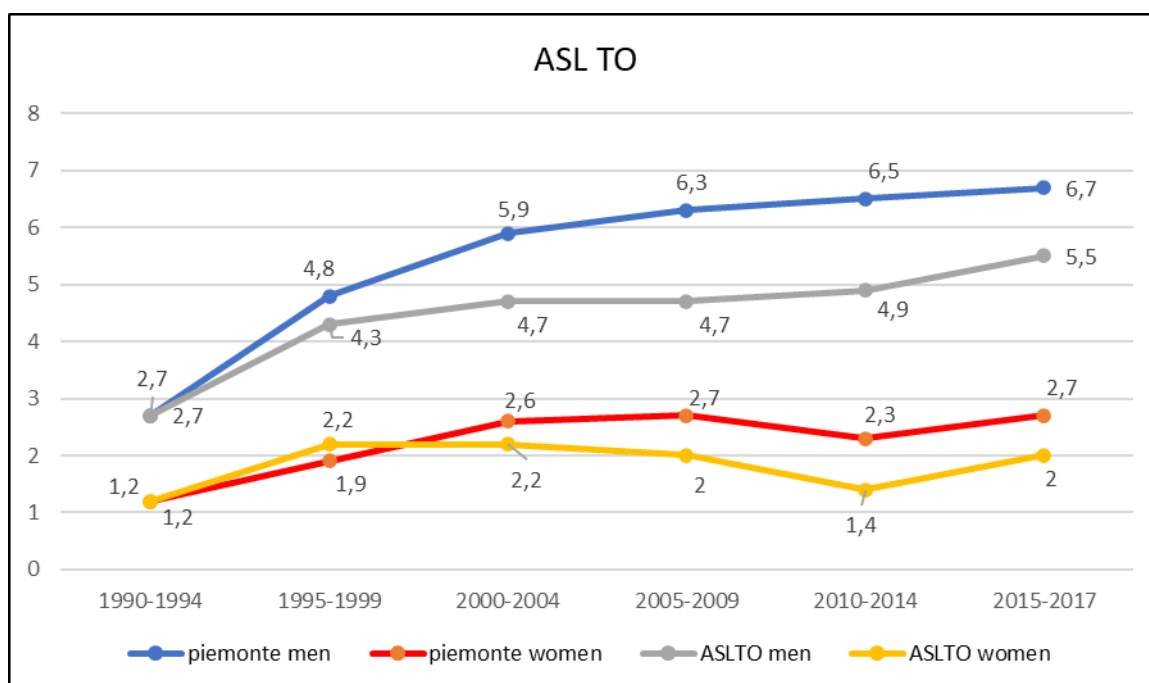
**Pleural malignant mesothelioma. Observed cases, standardized incidence rates ( per 100,000 per year; standard: European populationEU27) and 95% confidence intervals (CI) by area and sex. All diagnoses**

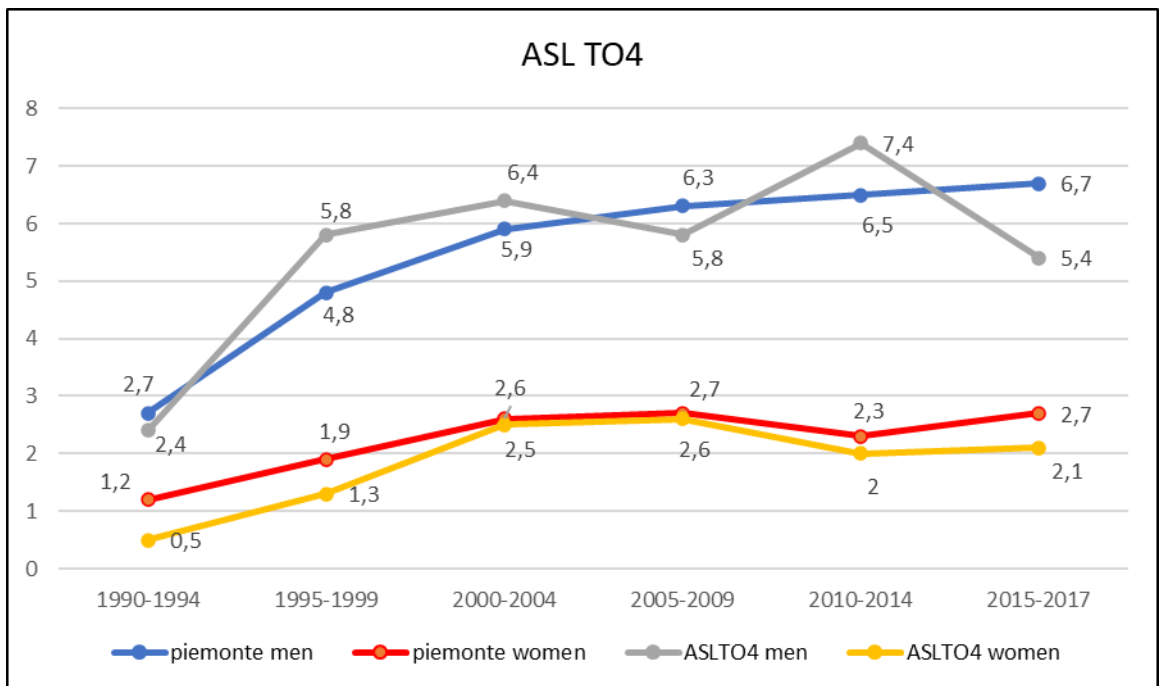
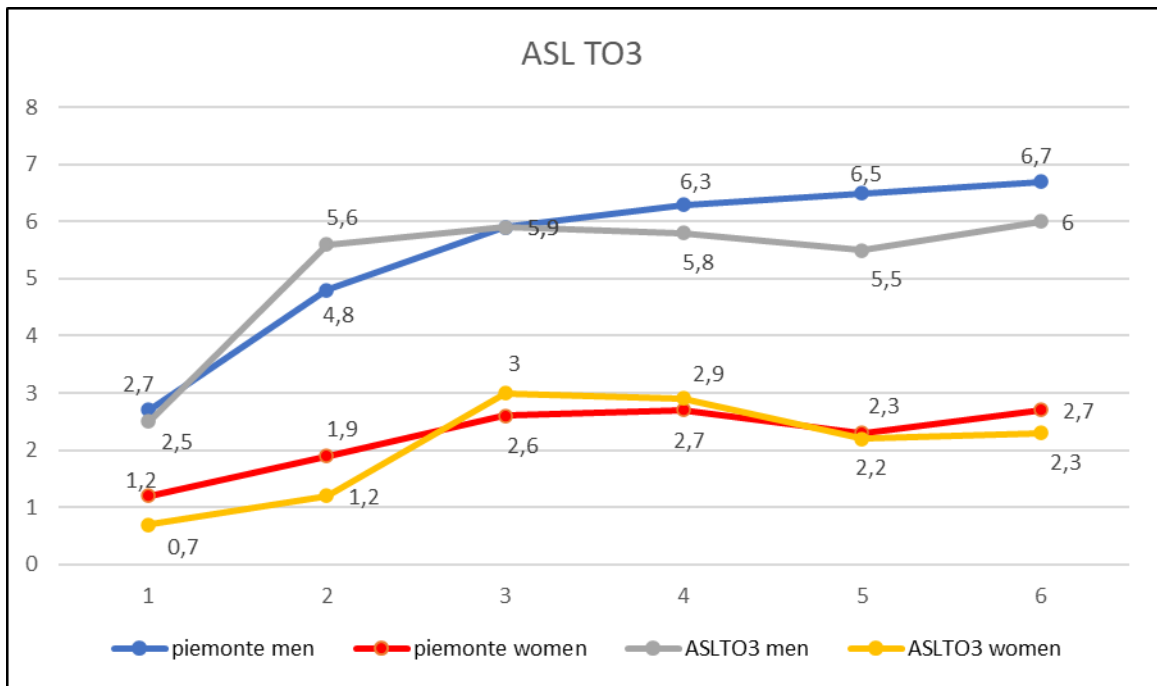
INCIDENCE 2013-2017 (definite, probable and possible diagnoses)								
LOCAL DISTRICT	WOMEN				MEN			
	rates	95% CI		observed	rates	95% CI		observed
Regione Piemonte	2.5	2.2	2.7	397	6.9	6.5	7.4	831
AL/1 (Acqui Terme)	2.5	0.2	4.9	5	4.7	0.9	8.4	6
AL/2 (Alessandria)	3.1	1.4	4.9	13	7.8	4.8	10.7	27
AL/3 (Casale Monferrato)	35.8	29.0	42.6	115	61.7	51.8	71.6	150
Comune Casale Monferrato	58.8	45.4	72.3	78	81.4	63.0	99.8	76
AL/4 (Novi Ligure)	2.0	0.2	3.8	5	8.6	4.7	12.5	19
AL/5 (Ovada)	3.8	0	7.7	4	7.4	1.9	12.9	7
AL/6 (Tortona)	0	0	0	0	4.8	1.6	7.9	9
AL/7 (Valenza)	5.0	0.8	9.1	6	16.0	7.6	24.4	14
AT/1 (Asti centro)	2.0	0.4	3.7	6	3.8	1.1	6.4	8
AT/2 (Asti nord)	1.0	0	2.3	2	6.3	2.7	9.9	12
AT/3 (Asti sud-Nizza M.to)	0.6	0	1.9	1	1.7	0	3.7	3
BI/1(Biella)	0.9	0	1.9	4	3.9	1.8	6.0	13
BI/2 (Cossato)	1.5	0	3.3	3	5.7	2.1	9.2	10
CN1/1 (Borgo San Dalmazzo)	0.4	0	1.2	1	2.3	0.3	4.3	5
CN1/2 (Ceva)	2.1	0	5.2	2	2.4	0	5.7	2
CN1/3 (Cuneo)	1.7	0	3.4	4	4.6	1.6	7.6	9
CN1/4 (Fossano)	1.6	0	3.2	4	6.2	2.9	9.4	14
CN1/5 (Mondovì)	0.9	0	2.2	2	3.3	0.6	5.9	6
CN1/6 (Saluzzo)	0.5	0	1.4	1	3.2	0.8	5.6	7
CN2/1 (Alba)	0.9	0	1.9	3	3.7	1.5	5.9	11
CN2/2 (Bra)	0.9	0	2.2	2	3.5	0.7	6.3	6
NO/1 (Arona)	2.5	0.6	4.4	7	5.8	2.5	9.1	12
NO/2 (Borgomanero)	2.0	0.2	3.8	5	4.7	1.6	7.8	9
NO/3 (Galliate-Trecate)	3.1	0.5	5.7	6	9.9	4.9	15.0	15
NO/4 (Novara)	3.0	1.3	4.7	13	6.1	3.5	8.8	21
TO1-10 (Torino)	1.6	1.1	2.0	59	5.5	4.6	6.5	129
TO3/1 (Collegno)	3.6	1.5	5.7	11	8.9	5.2	12.7	22
TO3/2 (Giaveno)	3.0	0	6.5	3	6.0	0.7	11.2	5
TO3/3 (Orbassano)	3.3	1.2	5.3	10	5.0	2.3	7.8	13
TO3/4 (Pinerolo)	0.7	0	1.7	2	4.8	2.1	7.4	12
TO3/5 (Rivoli)	3.4	0.9	5.9	7	5.6	1.9	9.3	9
TO3/6 (Susa)	1.7	0.3	3.1	6	5.9	2.8	9.0	14
TO3/7 (Val Pellice)	2.2	0	5.4	2	7.0	0.8	13.2	5
TO3/8 (Val Chisone e Germanasca)	0.8	0	2.3	1	1.4	0	4.2	1
TO3/9 (Venaria)	0.8	0	1.8	2	6.4	2.8	9.9	13
TO4/1 (Ciriè)	2.3	0.8	3.8	9	5.9	3.2	8.5	19
TO4/2 (Chivasso)	4.2	1.7	6.8	11	8.6	4.5	12.7	17
TO4/3 (Settimo Torinese)	1.4	0	2.8	4	4.2	1.4	6.9	9
TO4/4 (San Mauro Torinese)	0	0	0	0	7.1	2.1	12.1	8
TO4/5 (Ivrea)	1.3	0.1	2.4	5	8.1	5.0	11.3	26
TO4/6 (Cuorgnè)	1.5	0	3.1	4	4.4	1.5	7.2	9
TO5/1(Carmagnola)	1.3	0	3.1	2	2.3	0	4.8	3
TO5/2 (Chieri)	2.1	0.5	3.7	7	4.0	1.6	6.3	11
TO5/3 (Moncalieri)	2.8	0.7	4.9	7	8.3	4.3	12.3	17
TO5/4 (Nichelino)	1.2	0	2.7	3	2.3	0.3	4.4	5
VC/1(Vercelli-Santhià)	3.2	1.3	5.0	12	10.9	7.0	14.8	30
VC/2 (Montano-Borghesia-Varallo)	1.0	0	2.2	3	6.3	2.9	9.7	13
VCO/1(Domodossola)	1.7	0	3.5	4	11.9	6.8	17.1	21
VCO/2 (Omegna)	2.4	0	4.8	4	1.7	0	4.1	2
VCO/3 (Verbania)	2.2	0.2	4.2	5	13.2	7.8	18.5	23

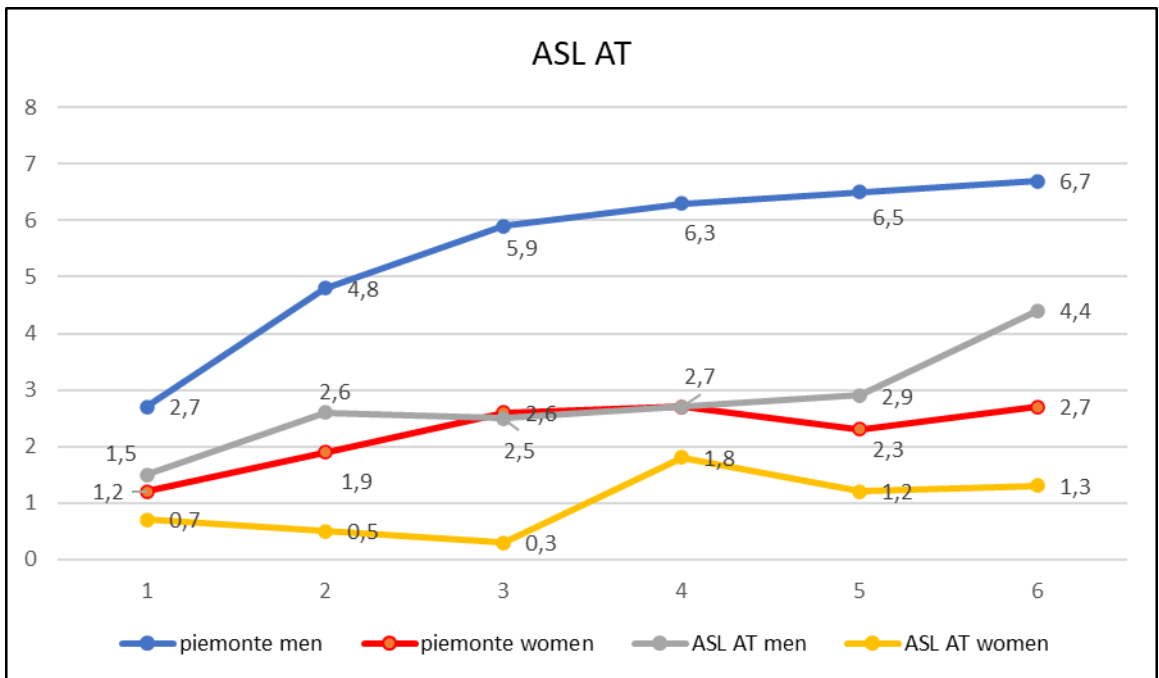
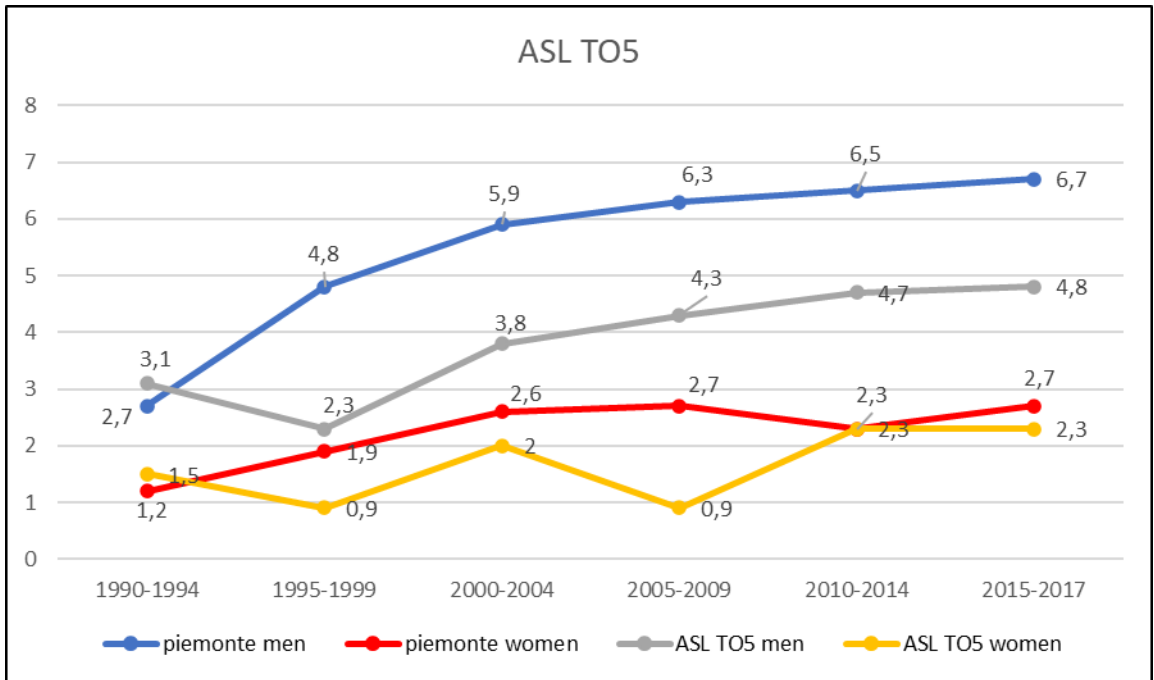
**Pleural malignant mesothelioma. Regione Piemonte, time trends by sex. All diagnoses. Standardized rates (per 100,000 per year; standard: European population EU27) 1990-2017**

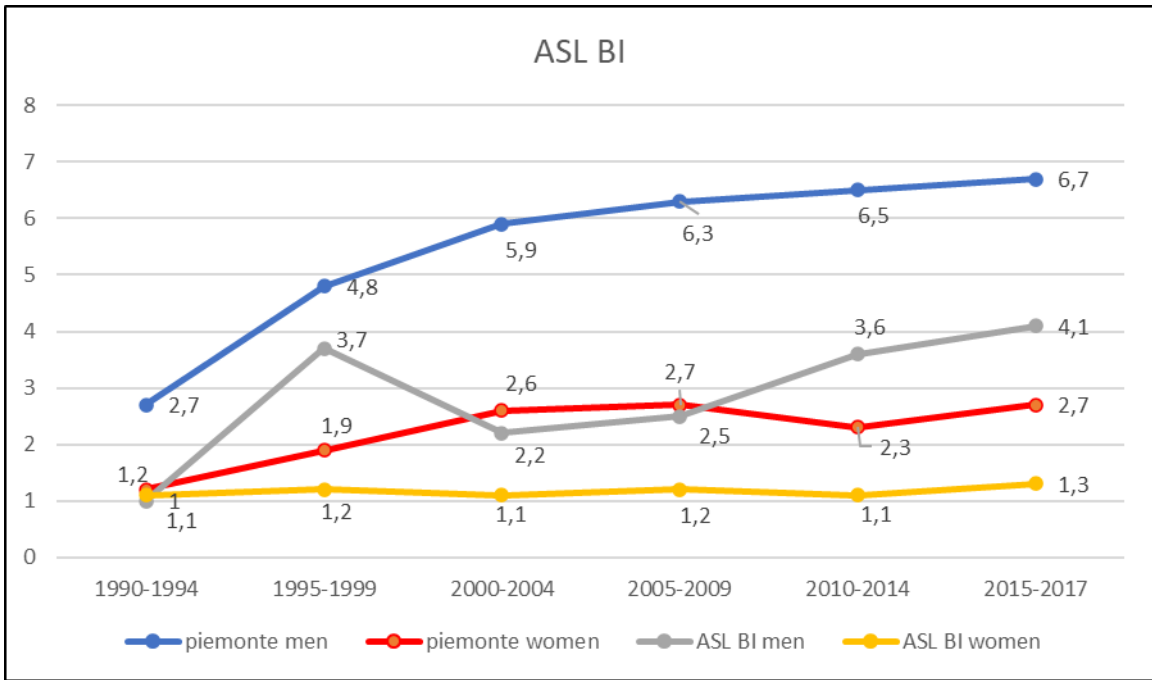
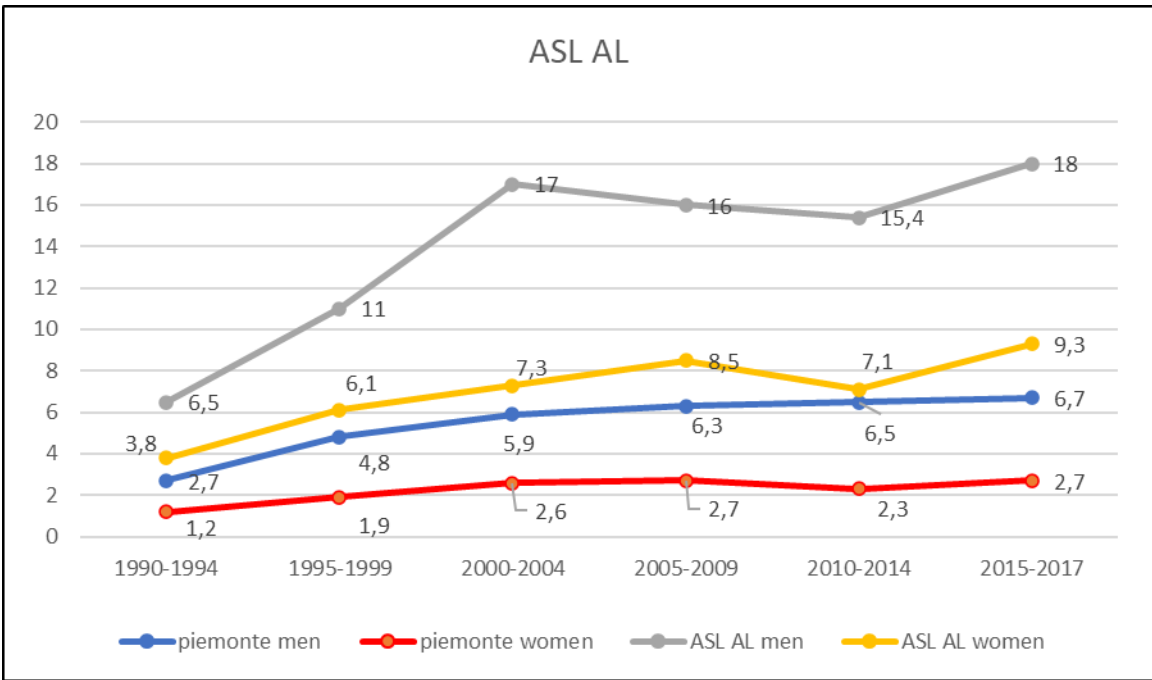


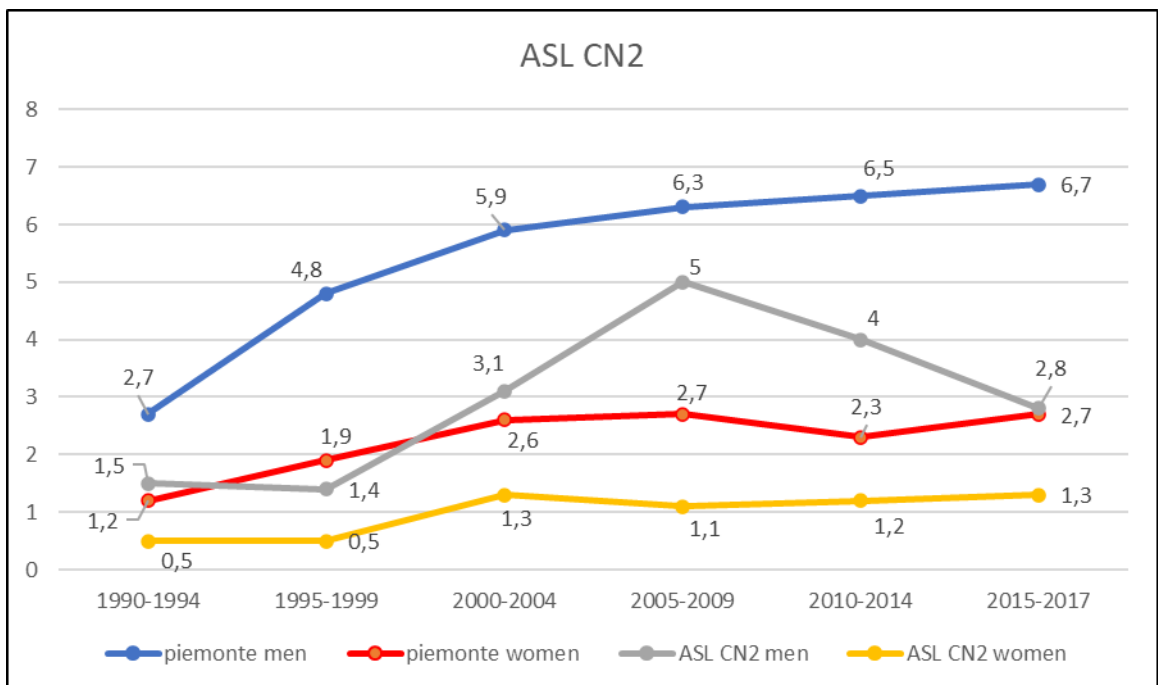
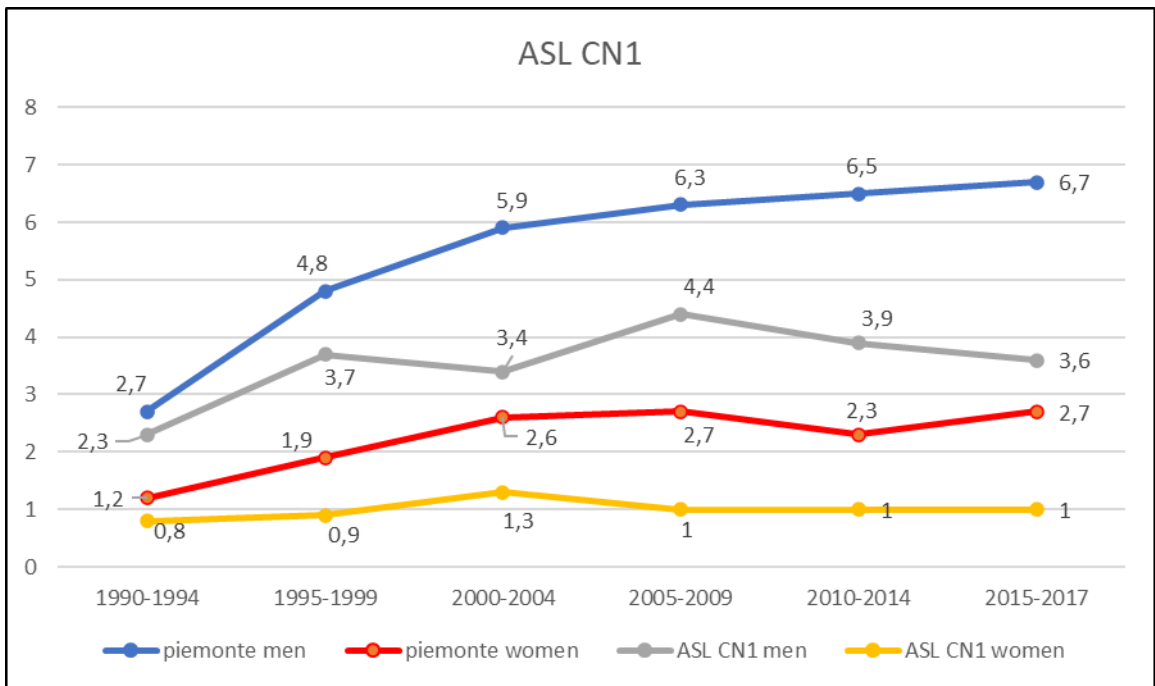
**Pleural malignant mesothelioma. Regione Piemonte, time trends by sex and local health authority. All diagnoses. Standardized rates (per 100,000 per year; standard: European population EU27) 1990-2017**



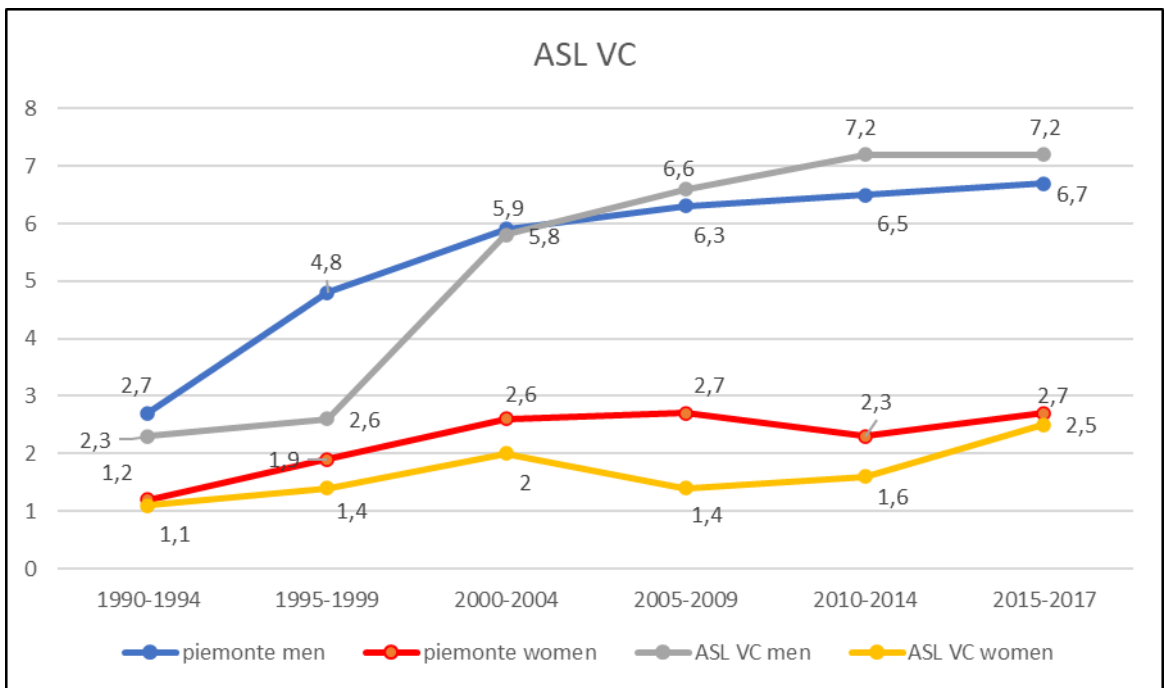
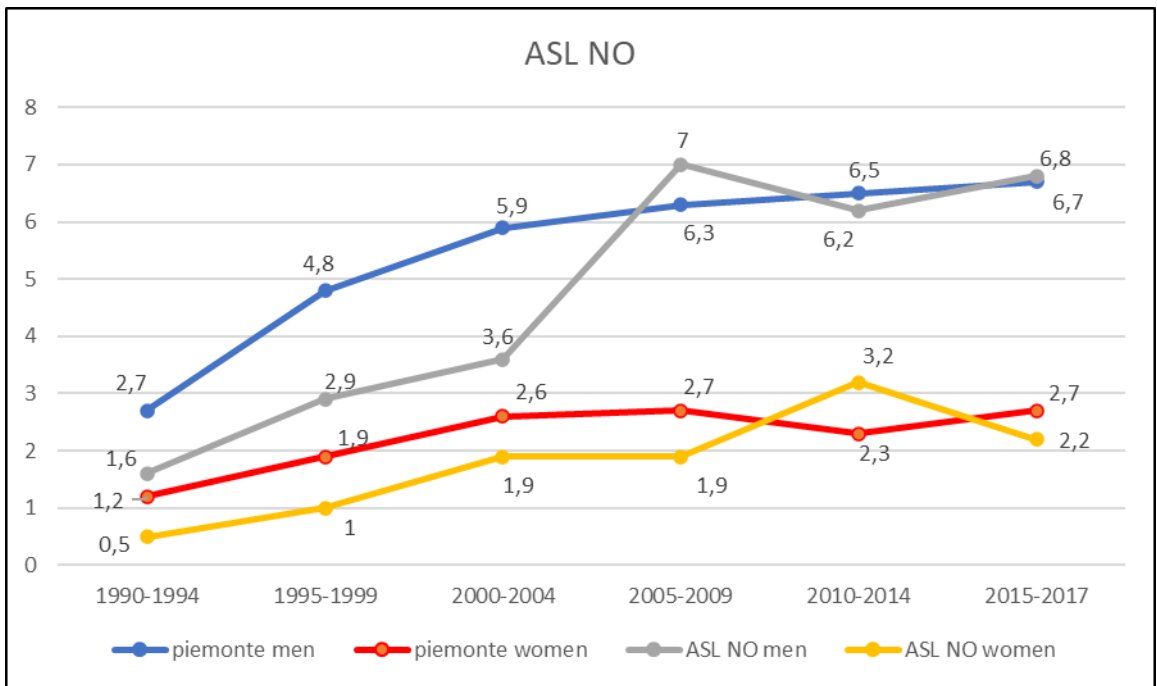


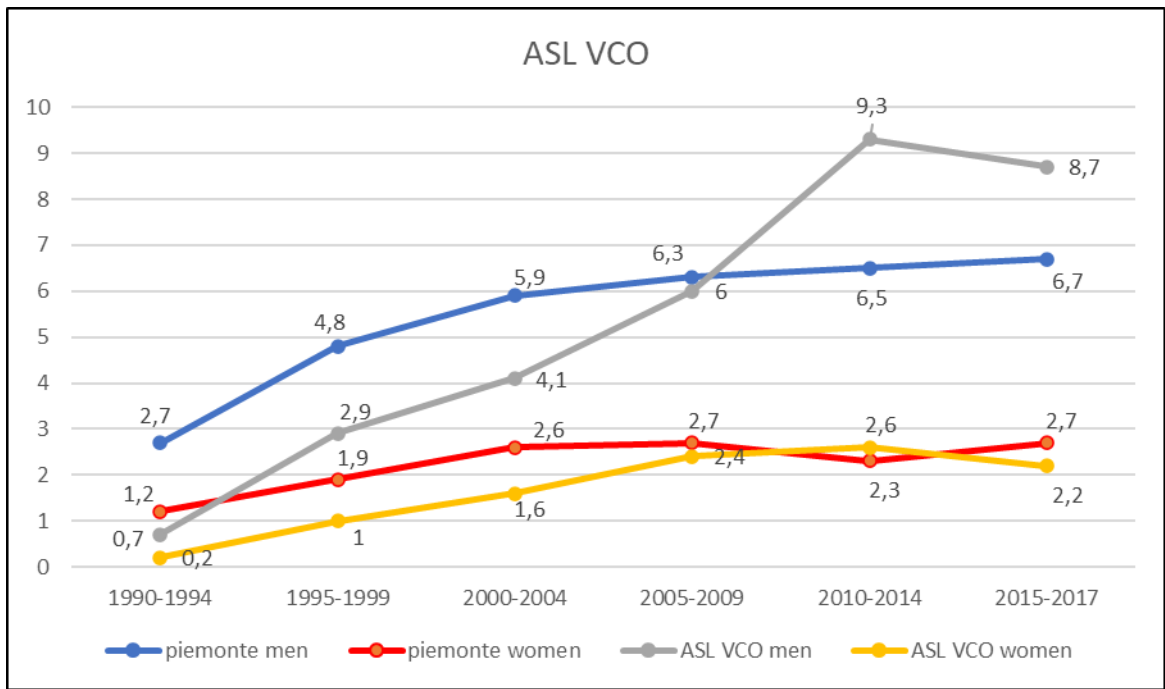












## SURVIVAL

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

<b>SURVIVAL 1990-2017</b>							
		median (months)	Survival probability at :				
			6 months	1 yr	2 yrs	3 yrs	5 yrs
<b>period</b>	1990-1994	8.6	64%	35%	15%	8%	3%
	1995-1999	8.8	61%	39%	16%	8%	4%
	2000-2004	10.0	66%	41%	17%	9%	3%
	2005-2009	11.0	71%	47%	20%	12%	5%
	2010-2014	11.0	70%	46%	20%	11%	5%
	2015-2017	11.2	70%	47%	21%	11%	-

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

SURVIVAL 1990-2017							
age class	median (months)	Survival probability at :					
		6 months	1 yr	2 yrs	3 yrs	5 yrs	
00-54	13.4	81%	54%	29%	19%	9%	
55-64	13.7	78%	56%	26%	15%	7%	
65-74	12.3	74%	51%	22%	11%	4%	
75+	7.0	54%	30%	11%	6%	2%	

### Median survival time and survival probability by histotype

SURVIVAL 1990-2017							
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%	12%	5%	2%	
sarcomatoid	5.0	43%	18%	5%	3%	2%	
not specified	7.0	55%	31%	12%	7%	4%	
unknown	3.1	31%	16%	9%	6%	3%	