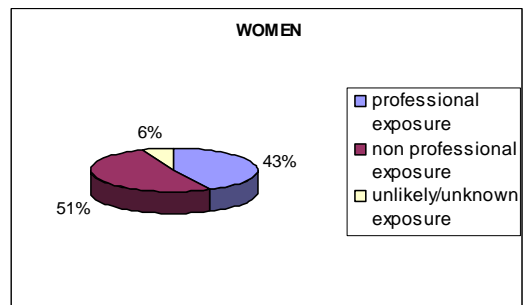
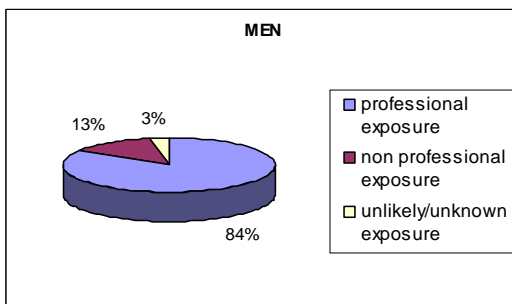


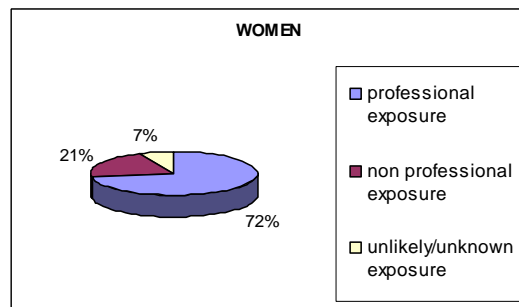
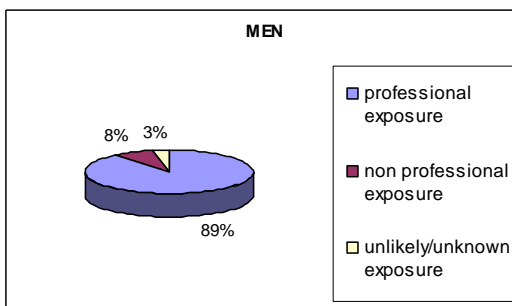
## Exposure

The Piedmont Register of Malignant Mesothelioma includes 5061 cases of malignant mesothelioma diagnosed between 1990 and 2016. Occupational, environmental, familial and residential histories have been investigated in 3764 cases (74.4%), allowing completion of exposure assessment. Most cases occurred in the pleura (92.7%), whereas peritoneal mesothelioma represent only 7% of the total.

### Pleural malignant mesothelioma. All diagnoses. Proportion by sex and exposure type. (Piemonte, 1990-2016)



### Peritoneal malignant mesothelioma. All diagnoses. Proportion by sex and exposure type. (Piemonte, 1990-2016)



**Pleural malignant mesothelioma: distribution of cases with exposure assesment by exposure type and sex ( Piemonte, 1990-2016)**

	<b>Men</b>	<b>Women</b>	<b>Total</b>
<b>Definite occupational exposure</b>	<b>1441</b>	<b>262</b>	<b>1703</b>
	62.5%	22.2%	48.8%
<b>Probable occupational exposure</b>	<b>80</b>	<b>26</b>	<b>106</b>
	3.5%	2.2%	3%
<b>Possible occupational exposure</b>	<b>431</b>	<b>223</b>	<b>654</b>
	18.7%	18.9%	18.7%
<b>Familial exposure</b>	<b>86</b>	<b>325</b>	<b>411</b>
	3.7%	27.5%	11.8%
<b>Environmental exposure</b>	<b>190</b>	<b>242</b>	<b>432</b>
	8.2%	20.4%	12.4%
<b>Other non-occupational exposures</b>	<b>19</b>	<b>30</b>	<b>49</b>
	0.8%	2.5%	1.4%
<b>Unlikely exposure</b>	<b>12</b>	<b>20</b>	<b>32</b>
	0.5%	1.7%	0.9%
<b>Unknown exposure</b>	<b>49</b>	<b>54</b>	<b>103</b>
	2.1%	4.6%	3%
<b>Total</b>	<b>2308</b>	<b>1182</b>	<b>3490</b>

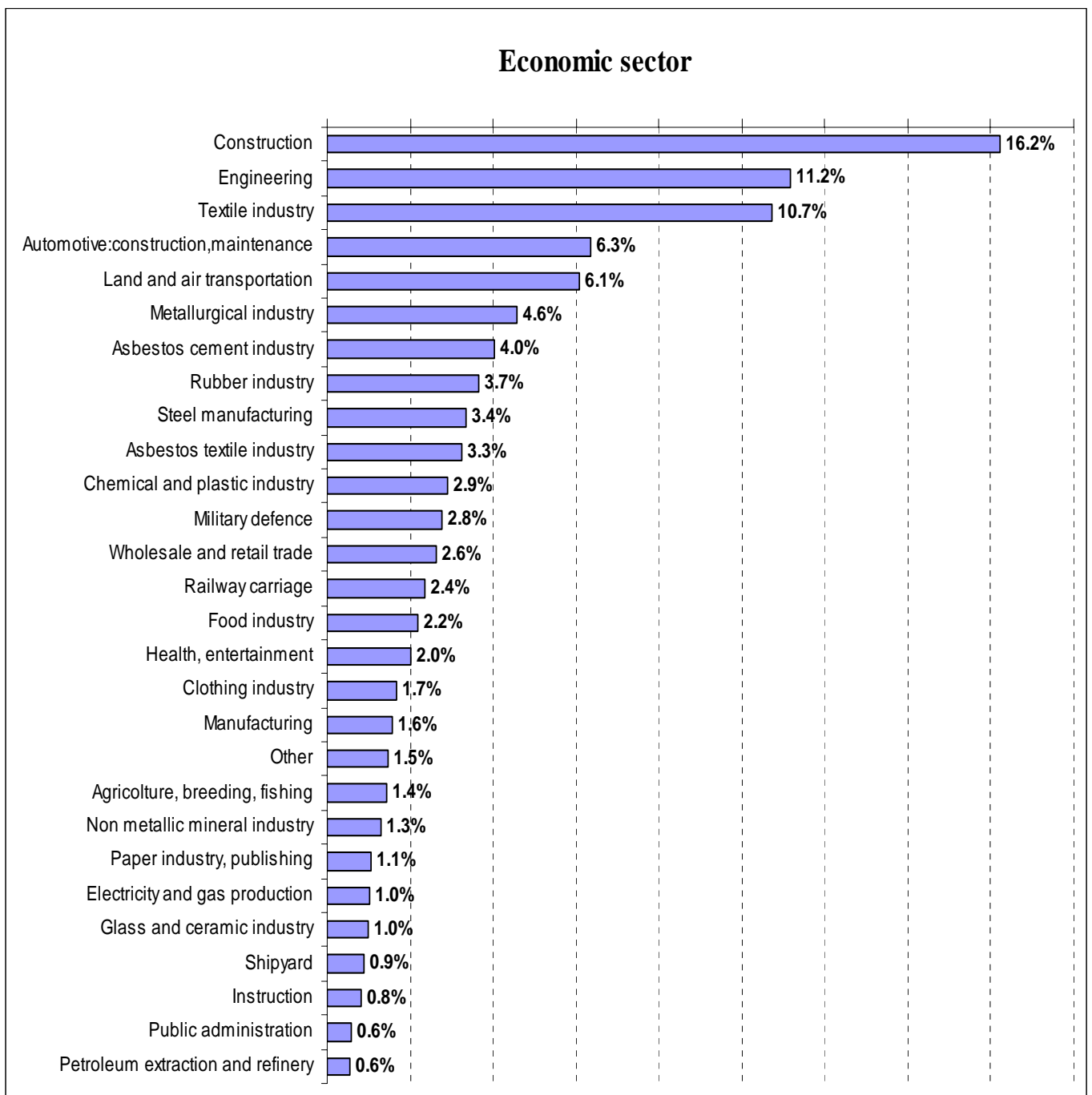
**Peritoneal malignant mesothelioma: distribution of cases with exposure assesment by exposure type and sex ( Piemonte, 1990-2016)**

	<b>Men</b>	<b>Women</b>	<b>Total</b>
<b>Definite occupational exposure</b>	<b>110</b>	<b>61</b>	<b>171</b>
	71.9%	56%	65.3%
<b>Probable occupational exposure</b>	<b>3</b>	<b>1</b>	<b>4</b>
	2.0%	0.9%	1.5%
<b>Possible occupational exposure</b>	<b>23</b>	<b>16</b>	<b>39</b>
	15.0%	14.7%	14.9%
<b>Familial exposure</b>	<b>5</b>	<b>10</b>	<b>15</b>
	3.3%	9.1%	5.7%
<b>Environmental exposure</b>	<b>6</b>	<b>10</b>	<b>16</b>
	3.9%	9.1%	6.1%
<b>Other non-occupational exposures</b>	<b>2</b>	<b>3</b>	<b>5</b>
	1.3%	2.8%	1.9%
<b>Unlikely exposure</b>	<b>0</b>	<b>3</b>	<b>3</b>
	0	2.8%	1.2%
<b>Unknown exposure</b>	<b>4</b>	<b>5</b>	<b>9</b>
	2.6%	4.6%	3.4%
<b>Total</b>	<b>153</b>	<b>109</b>	<b>262</b>

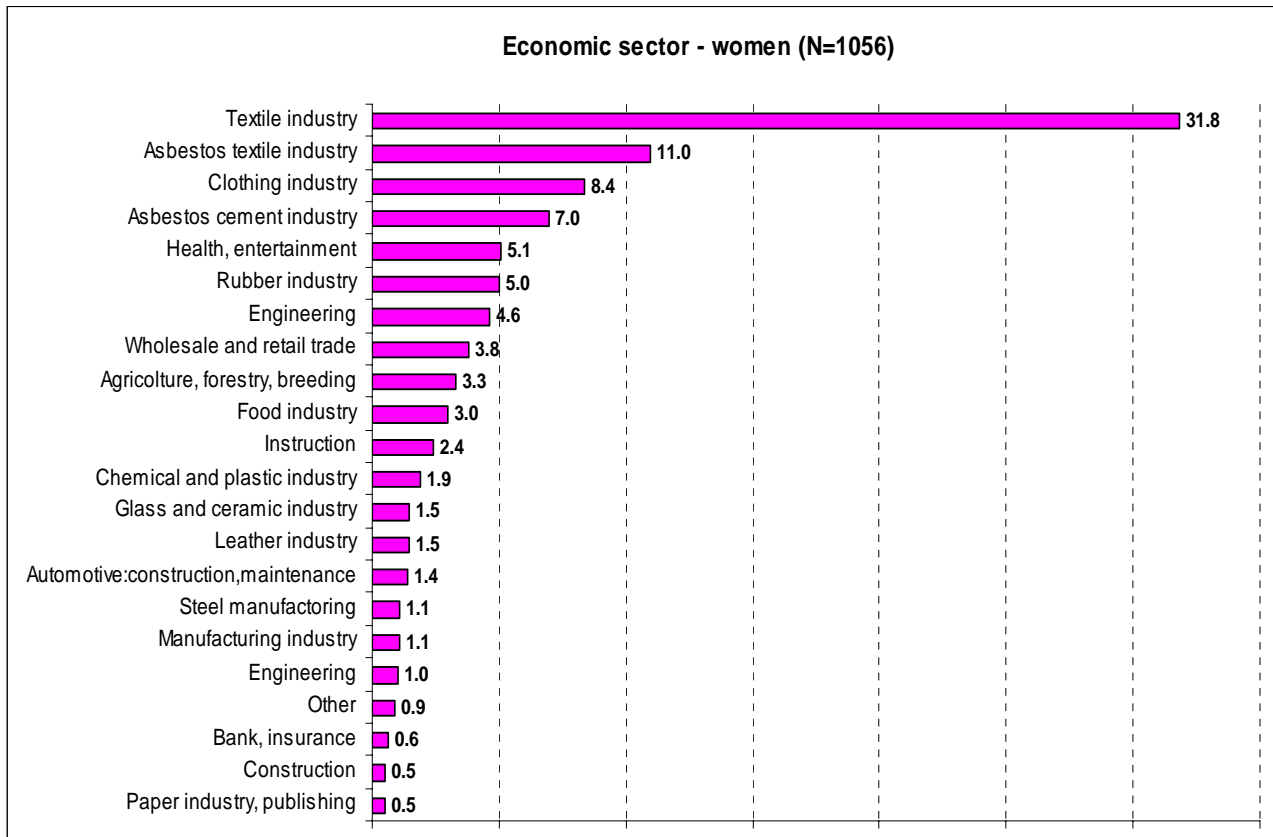
## OCCUPATIONAL EXPOSURE

A total of 6628 definite, probable or possible employment periods of occupational asbestos exposure were identified in 1990-2016.

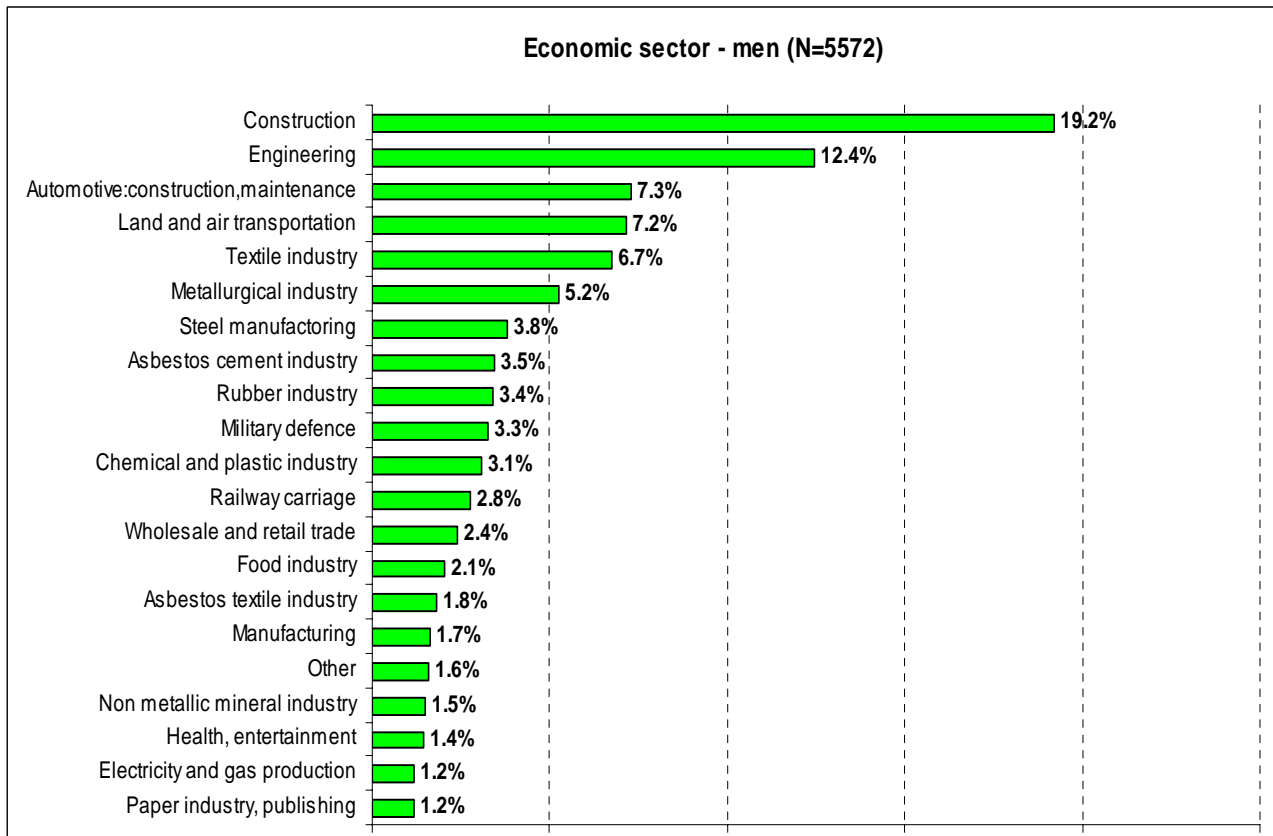
### Proportion of professional exposure periods by economic sector (all diagnoses, Piemonte, 1990-2016)



**Proportion of professional exposure periods by economic sector. Women (all diagnoses, Piemonte, 1990-2016)**



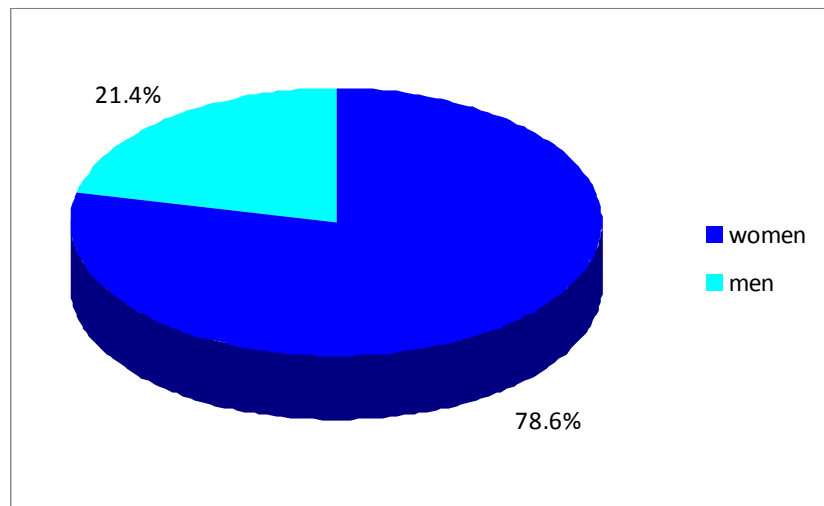
**Proportion of professional exposure periods by economic sector. Men (all diagnoses, Piemonte, 1990-2016)**



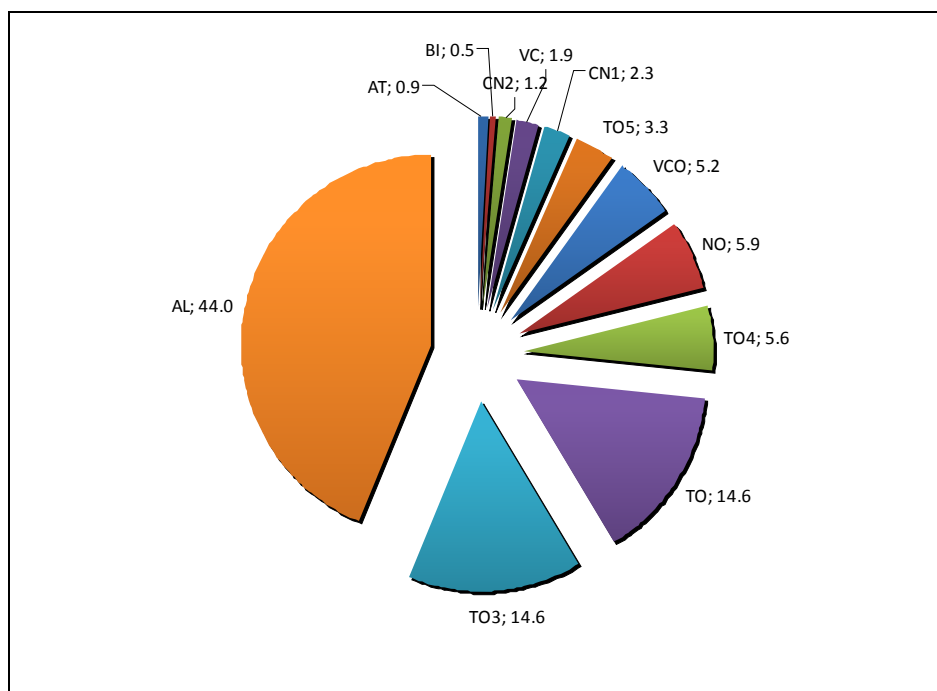
## FAMILIAL EXPOSURE

Familial exposures are defined as sharing home with an occupationally exposed worker. Overall 426 familial asbestos exposures were identified in 1990-2016 (11.3% of all exposures).

### Proportion of familial exposures by sex . All diagnoses (Piemonte, 1990-2016)



### Proportion of familial exposures by residential local health authority. All All diagnoses. (Piemonte, 1990-2016)



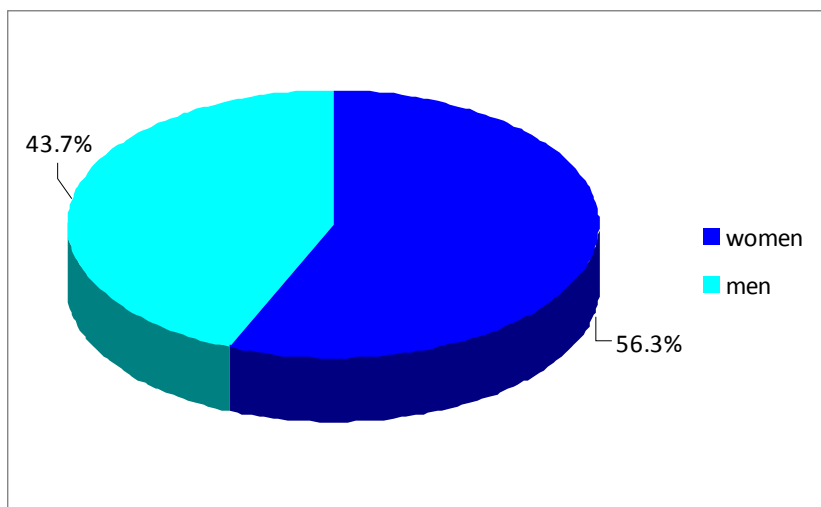
## ENVIRONMENTAL EXPOSURE

Environmental exposures are defined as living near premises where asbestos was extracted, processed or used.

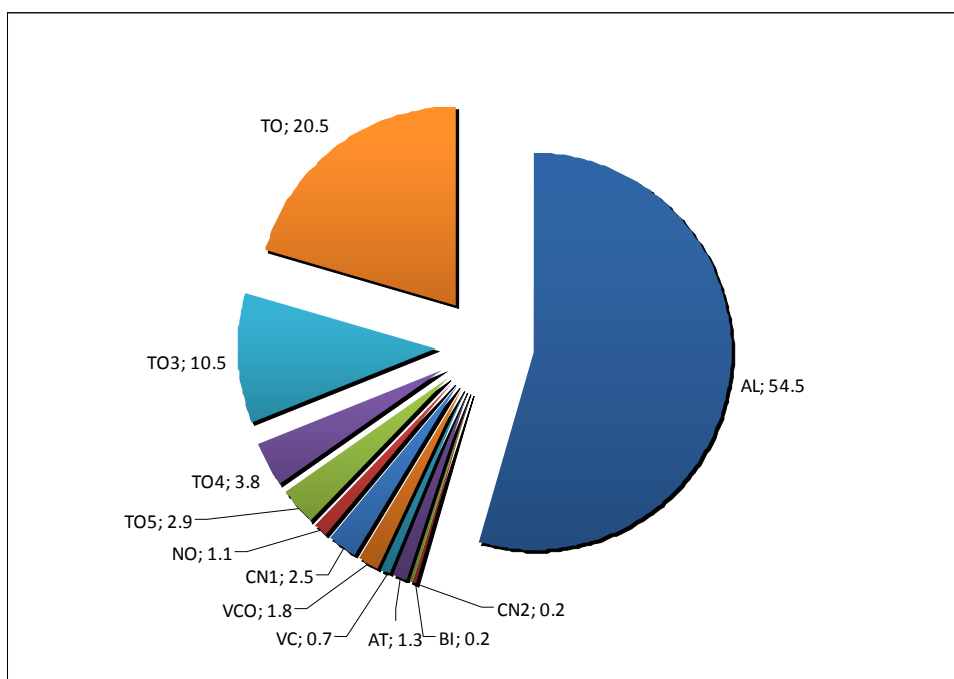
Furthermore this category includes exposures related to the presence of anthropic asbestos (such as warehouses of asbestos containing materials) or in nature (such as outcrops of rocks containing asbestos).

Overall 448 environmental asbestos exposures were identified in 1990-2016 (11.9% of all exposures).

### Proportion of environmental exposures by sex. All diagnoses (Piemonte, 1990-2016)



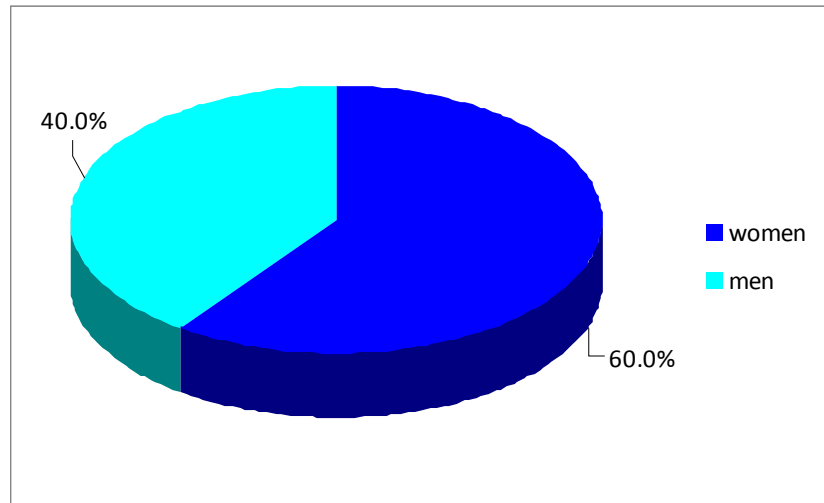
### Proportion of environmental exposures by local health authority. All diagnoses (Piemonte, 1990-2016)



## OTHER NON-OCCUPATIONAL EXPOSURES

By definition, such exposures occurred during activities carried out in the home environment (use of asbestos products), in other non-occupational settings or during leisure-time activities. Overall 55 other non-occupational asbestos exposures were identified in 1990-2016 (1.5% of all exposures).

### Proportion of other non-occupational asbestos exposures by sex. All diagnoses. (Piemonte, 1990-2016)



### Proportion of other non-occupational asbestos exposures by residential local health authority. All diagnoses. (Piemonte, 1990-2016)

