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STUDY OF CANCER INCIDENCE AT SEVESO

1975-80

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## STUDY OF CANCER INCIDENCE AT SEVESO

The animal and laboratory experimental data on the possible carcinogenic effects of Dioxin cannot yet be regarded as satisfactory. The animal work has shown an increase in lung, liver and tongue cancers, soft tissue sarcomas, lymphomas and leukemias.

The few epidemiological data on man pertain rather to the class of compounds to which dioxin belongs such as chlorophenols and weedkillers. These data show an increased risk for soft tissue sarcomas, kidney tumors, lymphomas and leukemias.

The few prospective studies of workers exposed to accidents must be considered with caution because of the small number of exposed persons and the short period of time that has elapsed.

In these circumstances, since the accident of July 1976 it is clearly necessary to keep up the surveillance of the population in the 11 Communes of USSL 62 and 63 of Brianza di Seveso in order to elicit any rises in the incidence of and mortality from some forms of cancer through time and/or in certain areas or population subgroups thought to be at risk. One of the first requirements of a cancer registry is the determination of the denominators, that is the resident population in the geographical area on which information bearing on the development of cancers is to be gathered. From this angle the area covered by the Seveso monitoring plan would never have been chosen a priori for the organisation of a cancer register. However, the 1976 accident made this necessary.

The health service structures serving the area of the 11 Communes do not coincide with a clearly defined catchment area for cancer

admissions since people may well go outside the administrative boundaries for this purpose.

An analysis of admissions in the hospitals of Lombardy up to 1980 shows that residents in the 11 Communes were admitted to 115 of the 279 hospitals of the Region.

In the present situation, since hospitals are the only source in Italy from which data can be systematically collected with some claim to completeness, we concentrated all our efforts on using this source of information, which is available, even if with some gaps, since 1975.

In 1975 the Lombardy Region introduced an admission/discharge (A/D) form on which all hospitals, public or private, in the Region enter information on hospitalisations. From this form information including the date of birth and commune of residence of the patient, the ward, hospital and case sheet number with date of admission, principal diagnosis and any other complications, coded according to the eighth revision of the I.C.D., are extracted and fed into a computer of the Regional Data Agency (ARD).

Our study starts with the information collected in the ARD computer with all the related advantages and disadvantages. The computer holds some 14000 admissions corresponding to around 7700 tumor cases for the period 1975 to 1980.

In working out our research protocol we sought to allow for possible sources of error arising from the use of A/D forms by organising the work in stages according to the priority lines in order with time to attain the necessary level of diagnostic completeness and precision, gained in part as we went along. From the A/D forms we selected admissions with a disease code

in the range 140 to 239.9, that is "malignant tumors and unspecified benign tumors".

According to date of birth, residence and date of admission each form was matched with the possible name and address corresponding to an individual residing in one of the 11 Communes. In cases where there was more than one name for an admission all the resulting names and addresses were assigned to the form. At a later stage the matches were checked by a visit to the hospital concerned. This system showed that 25% of the reports could not be matched up with the subject concerned solely by means of registry data linkage. We therefore focused attention on "checking the diagnosis", by which term we meant the collection and evaluation of all the documentation available at the hospitals for every case (case sheet, histological findings, radiological examinations and so forth).

This documentation was traced for all the priority tumors for the period 1975-80. By priority tumors we mean: 1) all tumors of the liver and biliary system, 2) of the pancreas, 3) of the kidney, 4) of bone, 5) of connective tissue and soft tissue, 6) of the skin, 7) of the endocrine glands, 8) of the lymph nodes, 9) of the CNS and PNS, 10) lymphomas, 11) leukemias, 12) all tumors, malignant and benign, of children.

We decided to focus our attention initially on a selected group of tumors because:

- a) By confining our attention to these tumors, which include all childhood tumors and all forms considered to be relatively rare, representing less than 20% of all neoplasms, we cut down all the organisational problems and so were able to obtain the first reliable information at least on some neoplasms within a short time.

- b) Presumably fetuses and children are more likely to be sensitive to carcinogenic stimuli.
- c) By studying the rarer tumors it is easier to pick out an increase of a few cases on the assumption of a possible additive effect of dioxin.
- d) Some of the tumors chosen, in addition to being rare, are those found in animals (liver tumors, lymphomas, etc) and highlighted by the few available epidemiological investigations (eg soft tissue sarcomas).

Comment on the tables relating to the selected tumors

This is the first processing of the data on the tumors collected in the Seveso area. A further check and more sophisticated processing will follow.

As was to be expected, for any tumor type the numbers are very small and hence difficult to interpret whether they produce apparently significant results or not.

These data have been processed both by Comune and by zone (A, B, R and outside R) and by tumor type for the most interesting types. The rate obtained was compared with that for the Varese Cancer Registry in order to check that the job done at Seveso was handled correctly, and this was confirmed.

Overall, it may be said that there was no significant excess for any tumor except 171 "malignant tumors of the connective tissue of the soft tissues" and group 200-201-202 "lymphosarcoma, reticulosarcoma, Hodgkin's disease and other lymphoid tissue tumors".

I.C.D. 155-156 table

At commune level there are no significant differences, although Meda and Seveso present the highest rates. There is one case in zona A against an expected 0.27 but anyway this is not significant.

I.C.D. 157 table

Nothing significant.

I.C.D. 170 table

A small excess in Bovisio, Meda and zona B, though not significant because of the paucity of cases.

I.C.D. 171 table

This is the most interesting tumor type. At commune level there is no significant datum, mainly because the numbers are too small. The incidence is significantly increased in zone R. On examining the time trends we noted a slight rise. For this reason it will be necessary to recheck the time of onset and keep a close watch on the trend through time.

I.C.D. 172-173 table

The only noteworthy point is that the rate is significantly lower than in the Varese Cancer Registry. One explanation might be that our information is based solely on the A/D forms and we know that these tumors do not always call for hospitalisation.

I.C.D. 189 table

Nothing significant.

I.C.D. 191-192

Nothing significant. Only the Desio and Muggiò rates are slightly above the Varese rate.

I.C.D. 193 table

Only the Seveso rate exceeds the Varese rate. Zone R presents an excess in the internal comparison.

I.C.D. 194 table

A slight excess in Desio and Seregno but the numbers are too small to be rated significant.

I.C.D. 196-197-198 table

Nothing significant.

I.C.D. 200-201-202 table

Lentate and Cesano present a nonsignificant excess over the expected rates and the same applies to zone B. These tumors too will be rechecked and followed through time.



I.C.D. 204-205-206-207 table

A slight excess of observed over expected cases for the communes of Barlassina, Meda, Muggiò and Nova but it cannot be called significant.

With regard to the other tumors, they are benign and hence of little account as evidence for a carcinogenic action of TCDD. It must be said at all events that too little time has passed for the excesses to be safely attributable to the accident of July 1976.

However, as already stated, these data are not definitive and will all have to be checked again and reconsidered in several ways.

TUMORE MALIGNO DELLA CHIANDOLA TIROIDE

I.C.D. 193

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT.%	TASSO
BARLASSINA	-	0.46	-	-
BOVISIO MASCIAGO	-	0.94	-	-
CESANO MADERNO	3	2.26	114.05	0.21
DESIO	3	2.67	112.21	0.21
LENTATE SUL SEVESO	-	1.05	-	-
MEDA	3	1.61	186.52	0.35
MUGGIO'	-	1.60	-	-
NOVA MILANESE	3	1.60	167.01	0.35
SEREGNO	-	3.03	-	-
SEVESO	4	1.43	200.14	0.52
VAZEO	2	0.99	203.00	0.36
<b>TOTALE COMUNI</b>	<b>18</b>	<b>18.00</b>	<b>100</b>	<b>0.19</b>
ZONA A	-	0.06	-	-
ZONA B	-	0.40	-	-
ZONA C	7	2.64	265.23	0.50
FUORI C	11	14.90	73.61	0.14

\* Tasso Registro Tumori di Varese

TUMORE MALIGNO DEL FEGATO E DELLA COLICISTI

I.C.D. 155-156

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT. %	TASSO
BARLASSINA	2	2.33	85.75	0.82
SOVESSO MASCIAGO	6	4.00	124.90	1.19
CESANO MADERNO	13	13.44	96.70	0.92
DESIO	13	13.66	95.10	0.91
LENTATE SUL SEVESO	2	5.37	37.20	0.36
MEDA	12	8.22	146.00	1.40
MUGGIO'	8	8.17	97.90	0.94
NOVA MILANESE	6	8.20	73.20	0.70
SESEGNIO	15	15.46	97.00	0.93
SEVESO	10	7.30	137.00	1.31
VAREDO	5	5.04	90.30	0.95
<b>TOTALE COMUNI</b>	<b>92</b>	<b>92</b>	<b>100</b>	<b>0.96</b>
ZONA A	1	0.27	363.00	3.40
ZONA B	2	2.03	99.40	0.94
ZONA C	9	13.50	66.70	0.64
FUORI C	80	76.17	105.00	1.00

\* Cesso Registro Tumori di Varese

TUMORE MALIGNO DEL PANCREAS

I.C.D. 157

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT.%	TASSO
BARLASSIETA	3	1.95	153.68	1.23
BOVESIO MASCIAGO	4	4.02	99.52	0.80
CESANO MADERNO	15	11.25	133.31	1.07
DESTO	7	11.44	61.21	0.49
LEGNATE SUL SEVESO	3	4.50	66.68	0.53
MEDA	6	6.88	87.20	0.70
MUGGIO'	8	6.84	116.99	0.94
NOVA MILANESE	6	6.86	87.43	0.70
SEREGNO	14	12.94	103.21	0.87
SEVESO	7	6.11	114.60	0.92
VAREDO	4	4.21	94.91	0.76
TOTALE COMUNI	77	77	100	0.80
ZONA A	-	0.26	-	-
ZONA B	1	1.70	58.79	0.47
ZONA C	9	11.29	79.72	0.64
FUORI C	67	63.75	105.10	0.84

Il Tasso Registro Tumori di Varese

TUMORE MALIGNO DELLE OSSA, CARTILAGINE ARTICOLARE-PERIOSTIO

I.C.D. 170

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT.%	TASSO
BARLASSINA	1	0.53	187.83	0.41
BOVISIO MASCIAGO	4	1.10	364.90	0.80
CESANO MADERNO	2	3.07	65.17	0.14
DESIO	4	3.12	128.24	0.28
LEGNATE SUL SEVESO	-	-	-	-
MEDA	3	1.88	159.87	0.35
MUGGIO'	1	1.86	53.62	0.12
NOVA MILANESE	1	1.87	53.43	0.12
SERSICNO	4	3.53	113.37	0.25
SEVESO	-	-	-	-
VAREDO	1	1.15	87.00	0.19
<b>TOTALE COMUNI</b>	<b>21</b>	<b>21</b>	<b>100</b>	<b>0.22</b> = <b>0.10</b>
ZONA A	-	0.03	-	-
ZONA B	2	0.46	431.15	0.94
ZONA R	3	3.08	97.43	0.21
FUORI R	16	17.38	92.03	0.20

\* Tasso Registro Tumori di Varese

TABLE 1.1 - Summary of the main results of the 1977-78 survey

CLASSO	OSS./ANN. %	ANN.	OSS.	COMUNE
0.28	-	1.14	-	VALLE D'AOSTA
-	-	0.56	-	VALLE D'AOSTA
0.28	124.42	3.21	4	VALLE D'AOSTA
0.14	61.21	3.27	2	VALLE D'AOSTA
0.18	77.79	1.29	1	VALLE D'AOSTA
0.23	101.74	1.97	2	VALLE D'AOSTA
0.12	51.18	1.95	1	VALLE D'AOSTA
0.35	153.01	1.56	3	VALLE D'AOSTA
0.25	108.21	2.70	4	VALLE D'AOSTA
0.39	171.90	1.75	3	VALLE D'AOSTA
0.38	166.09	1.20	2	VALLE D'AOSTA
0.23	100	22	22	TOTALE COMUNE
-	-	0.03	-	ZONA A
-	-	0.48	-	ZONA B
0.57	246.01	3.23	8	ZONA C
0.13	76.26	18.21	14	ZONA D

ANNO 1977-78

I.C.D. 171

TUMORE MELANOMA MALIGNO DELLA PELLE - ALTRI TUMORI MALIGNI DELLA PELLE

I.C.D. 172-173

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT.%	TASSO
BARLASSINA	2	2.99	66.86	0.82
BOVISIO MASCIAGO	5	6.16	81.18	1.00
CESANO MADERNO	18	17.24	104.39	1.28
DESIO	18	17.53	102.70	1.26
LENTATE SUL SEVESO	8	6.89	116.03	1.42
MEDA	9	10.54	85.35	1.05
MUGGIO'	12	10.48	114.41	1.40
NOVA MILANESE	12	10.52	114.11	1.40
SEREGNO	19	19.83	95.83	1.17
SEVESO	10	9.36	106.33	1.31
VAREDO	5	6.46	77.42	0.95
<b>TOTALE COMUNE</b>	<b>118</b>	<b>118</b>	<b>100</b>	<b>1.23</b>
ZONA A	1	0.35	283.60	3.43
ZONA B	3	2.61	115.10	1.41
ZONA R	16	17.30	92.48	1.13
FUORI R	98	97.69	100.31	1.23

a Tasso Registro Tumori di Varese

TUMORE LINFOSARCOMA E RETICOLOSARCOMA

I.C.D. 200

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT.%	TASSO
BARLASSINA	-	0.7	-	-
BOVISTO MASCIAGO	5	2.29	217.69	1.00
CESANO MADENO	8	6.42	124.42	0.57
DESIO	3	6.53	45.9	0.21
INVERIGO SUL SEVESO	7	2.57	272.27	1.24
MEVA	5	3.93	127.16	0.58
MUGGIO'	2	3.90	51.18	0.23
NOVA MILANESE	1	3.92	25.50	0.12
SESENO	3	7.39	108.21	0.49
SEVESO	4	3.49	114.6	0.52
VAREDO	1	2.40	41.52	0.19
<b>TOTALE COMUNI</b>	<b>44</b>	<b>44</b>	<b>100</b>	<b>0.46</b>
ZONA A	-			
ZONA B	2	0.97	205.77	0.94
ZONA C	6	6.45	93.00	0.43
FUORI C	36	36.42	90.32	0.45

a Casso Registro Tumori di Varese



TUMORE MALIGNO DI BODKIN

I.C.D. 201

ANNO 1977-80

COMUNE	OSS.	ANNI	OSS./ANNI %	TASSO
SARLASSINA	3	0.83	239.06	0.82
BOVISO MASCIAGO	-	1.77	-	-
CESSANO MADRINO	9	4.82	186.63	0.64
DESIO	3	4.90	61.20	0.21
LAVINIO SUL SESSO	1	1.92	51.86	0.18
MEDA	3	2.94	101.73	0.35
MORNO	4	2.93	136.45	0.47
NOVA MANTOVANA	1	2.94	24.00	0.12
OSSESSO	5	5.54	50.17	0.31
SESSO	4	2.61	152.80	0.52
VARESE	1	1.30	5.36	0.19
TOTALE COMUNE	33	33	100	0.34
ZONA A	-	0.13	-	-
ZONA B	3	0.72	411.55	1.41
ZONA C	6	4.63	124.00	0.43
ZONA D	24	27.32	87.64	0.30

TASSO REGISTRATO TUMORE DI BODKIN

I.C.D. - TUMORE MALIGNO DI BODKIN - ANNO 1977-80

ALTRI TUMORI DEL TESSUTO LINFOIDE

I.C.D. 202

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT. %	TASSO
BARLASSINA	1	0.50	197.22	0.41
BOVISIO MASCIAGO	2	1.04	191.57	0.40
CESANO MADERNO	1	2.92	44.21	0.07
DESIO	7	2.97	235.64	0.49
LENTATE SUL SEVESO	1	1.16	85.57	0.18
MEDA	3	1.78	167.86	0.35
MUGGIO'	-	1.77	-	-
NOVA MILANESE	2	1.78	112.20	0.22
SEREGNO	2	3.36	59.51	0.12
SEVESO	1	1.50	63.03	0.13
VARESO	-	1.13	-	-
<b>TOTALE COMUNI</b>	<b>20</b>	<b>20</b>	<b>100</b>	<b>0.21</b>
ZONA A	-	0.02	-	-
ZONA B	1	0.44	226.35	0.47
ZONA C	1	2.92	34.10	0.07
FUORI R	18	16.55	100.70	0.23

\* Tasso Registro Tumori di Varese

LINFOSARCOMA E RETICOLOSARCOMA-MALATTIA DI HODGKIN-ALTRI TUMORI DEL TESSUTO LINFOIDE

I.C.D. 200-201-202

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT.%	TASSO
BARLASSINA	3	2.05	146	1.23
BOVISIO MASCIAGO	7	5.1	187	1.4
CESANO MADERNO	18	14.6	127	1.28
DESIO	13	14.4	90	0.91
LEGNATE SUL SEVESO	9	5.65	159	1.6
MEDA	11	8.65	127	1.28
MUGGIO'	6	8.6	70	0.7
NOVA MILANESE	4	8.6	47	0.45
SPERDIGNO	15	16.3	92	0.92
SEVESO	9	7.60	117	1.17
VAREDO	2	5.32	38	0.38
<b>TOTALE COMUNI</b>	<b>97</b>	<b>97</b>	<b>100</b>	<b>1.01 = 1.10</b>
ZONA A	-	0.30	-	-
ZONA B	6	2.13	282	2.8
ZONA R	15	14.2	92	0.92
FUORI R	76	30.29	97	0.90

è Tasso Registro Tumori di Varese

## LEUCEMIA LINFATICA

I.C.D. 204

ANNI 1977-80

COMUNE	CSS.	ATT.	CSS./ATT.%	TASSO
SARLASSINA	1	1.01	98.61	0.41
BOVISIO MASCIAGO	1	2.06	47.69	0.20
CESANO MADERNO	5	5.84	85.54	0.36
DESIO	1	5.94	16.83	0.07
LEGNATE SUL SEVESO	4	2.33	171.14	0.71
MEDA	5	3.57	139.88	0.58
MUGGIO'	6	3.55	168.90	0.70
NOVA MILANESE	3	3.56	84.15	0.35
SESTEGGIO	8	6.72	119.03	0.49
SEVESO	6	3.17	189.09	0.79
VAREDO	-	2.23	-	-
<b>TOTALE COMUNI</b>	<b>40</b>	<b>40.00</b>	<b>100</b>	<b>0.42</b>
ZONA A	-	0.15	-	-
ZONA B	1	0.88	119.17	0.47
ZONA C	4	5.86	60.20	0.26
FUORI B	35	39.11	105.78	0.44

\* Cesso Registro Tumori di Varese

## LEUCEMIA MIELOIDE

I.C.D. 205

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT.%	TASSO
BARIASSITA	4	0.36	464.06	1.64
BOVISIO MASCIAGO	1	1.77	56.34	0.20
COSSANO MANSERO	3	4.96	60.38	0.21
DESIO	3	5.03	59.40	0.21
LENTATE SUL SEVESO	5	1.98	251.68	0.89
MEDA	4	3.03	131.65	0.47
MUGGIO'	3	3.02	99.35	0.35
NOVA MILANESE	1	3.03	33.00	0.12
SESEGIO	5	5.71	87.52	0.31
SEVESO	3	2.69	111.23	0.29
VAREDO	2	1.86	107.47	0.38
<b>TOTALE COMUNI</b>	<b>34</b>	<b>34</b>	<b>100</b>	<b>0.35</b>
ZONA A	-	0.13	-	-
ZONA B	1	0.75	133.15	0.47
ZONA R	2	4.98	40.11	0.14
FUORI R	31	28.14	110.12	0.39

\* 0.47

a Tasso Registro Tumori di Varese

## LEUCEMIA MONOCITICA

I.C.D. 206

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT. %	TASSO
BARLASSINA	-	0.05	-	-
BOVESTO MASCIAGO	-	0.10	-	-
CESANO MADERNO	-	0.29	-	-
DESTO	-	0.30	-	-
LEVATE SUL SEVESO	-	0.12	-	-
MEDA	-	0.18	-	-
MUGGIO'	-	0.12	-	-
NOVA MILANESE	2	0.12	1122.07	0.23
SEREGNO	-	0.33	-	-
SEVESO	-	0.16	-	-
VAREDO	-	0.11	-	-
<b>TOTALE COMUNI</b>	<b>2</b>	<b>2</b>	<b>100</b>	<b>0.02</b>
ZONA A	-	0.01	-	-
ZONA B	-	0.04	-	-
ZONA C	-	0.29	-	-
FUORI R	2	1.68	120.79	0.03

a Tasso Registro Tumori di Varese

## LEUCENIE NON SPECIFICATE

I.C.D. 207

ANNO 1977-80

COMUNE	OSS.	ACT.	OSS./ACT. %	TASSO
BAELASSIA	1	0.46	219.14	0.41
BOVISIO MASCIAGO	2	0.94	212.36	0.40
CESABO MADRINO	4	2.63	152.07	0.28
DESIO	-	2.67	-	-
LAVINATE SUL SEVESO	-	1.05	-	-
MEDA	4	1.61	248.69	0.47
MOGGIO'	1	1.60	62.56	0.12
NOVA MONTAZZE	4	1.60	245.35	0.47
SESTENO	1	3.02	33.07	0.06
SEVESO	-	0.45	-	-
VAREDO	1	0.95	101.50	0.15
TOTALE COMUNI	10	10	100	0.15
ZONA A	-	0.06	-	-
ZONA B	1	0.40	251.51	0.47
ZONA R	1	2.64	37.39	0.07
TOTALE Z	10	14.90	107.37	0.20

\* TASSO REGIONE COMPTI DI VARESE

## LEUCEMIE; LINFATICA-MIELOIDE-MONOCITICA- ALTRE E NON SPECIFICATE LEUCEMIE

I.C.D. 204 - 205 - 206 - 207

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT. %	TASSO
BARIASSITA	7	2.38	252.10	2.46
BOVESIO MASCIAGO	4	4.89	81.80	0.8
CESANO MADERNO	12	13.4	89.55	0.85
DESIO	4	13.95	28.67	0.28
LEGNATE SUL SEVESCO	2	5.48	164.23	1.6
MEDA	13	8.4	154.66	1.52
MUGGIO'	10	8.35	119.76	1.17
NOVA MILANESE	10	8.36	119.62	1.17
SESTO	14	15.78	88.72	0.86
SEVESCO	9	7.45	120.81	1.18
VAREDO	3	6.13	48.94	0.57
<b>TOTALE COMUNI</b>	<b>94</b>	<b>94</b>	<b>100</b>	<b>0.98</b>
ZONA A	-	0.31	-	-
ZONA B	3	2.09	144	1.41
ZONA R	7	13.79	51	0.49
FUORI R	82	77.81	105	1.06

\* Tasso Registro Tumori di Varese



TUMORE MALIGNO DELLE ALTRE GLIANDOLE ENDOCRINE: SURRENALI, PARATIROIDE, TIMO, IPOFISI, EPIFISI

I.C.D. 194

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT.*	TASSO
BARLASSINA				
BOVESIO MASCIAGO				
CESANO MADRINO				
DESIO	1	0.45	224.43	0.07
LENTATE SUL SEVESO				
MEDA				
MUGGIO'				
NOVA MILANESE				
SESEGNIO	2	0.50	396.78	0.12
SEVESO				
VAREDO				
<b>TOTALE COMUNI</b>	<b>3</b>	<b>3</b>	<b>100</b>	<b>0.03</b>
ZONA A				
ZONA B				
ZONA C				
FUORI C	3	2.48	120.79	0.04

\* Classe Registro Tumori di Varese

POLICITEMIA VERA

I.C.D. 208

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT.%	TASSO
BARLASSINA				
BOVISIO MASCIAGO	2	0.42	478.93	0.40
CESANO MADERNO	1	1.17	85.54	0.07
DESTO	2	1.19	168.32	0.14
LEVATE SUL SEVESO				
MEDA				
MIGGIO'				
NOVA MILANESE				
SEREGNO	3	1.34	223.19	0.19
SEVESO				
VAREDO				
TOTALE COMUNI	8	8	100	0.08
ZONA A				
ZONA B				
ZONA C	2	1.17	170.50	0.14
FUORI R	6	6.62	90.55	0.08

a Tasso Registro Tumori di Varese

MIELOFIBROSI

I.C.D. 209

ANZI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT.%	TASSO
BARLASSERA	1	0.02	3944.52	0.41
BOVISIO MASCIAGO				
CESANO MADERNO				
DESIO				
LENTATE SUL SEVESO				
MEDA				
MUGGIO'				
NOVA MILANESE				
SEREGNO				
SEVESO				
VAREDO				
<b>TOTALE COMUNI</b>	<b>1</b>	<b>1</b>	<b>100</b>	<b>0.01</b> * <b>0.02</b>
ZONA A				
ZONA B				
ZONA C				
FUORI R	1	0.83	120.79	0.01

\* Tasso Registro Tumori di Varese

TUMORE BENIGNO DEL FEGATO E VIE BILIARI

I.C.D. 211.5

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT.%	TASSO
BARLASSINA				
BOVISIO MASCIAGO				
CESANO MADERNO				
DESIO				
LEGNATE SUL SEVESO				
MEDA	1	0.18	559.55	0.12
MUGGIO'				
NOVA MILANESE				
SESEGIO				
SEVESO	1	0.16	630.31	0.13
VAREDO				
<b>TOTALE COMUNI</b>	<b>2</b>	<b>2</b>	<b>100</b>	<b>0.02</b>
ZONA A				
ZONA B	1	0.04	2263.56	0.47
ZONA C				
FUORI C	1	1.66	60.39	0.01

a Tasso Registro Tumori di Varese

TUMORE BENIGNO DELLE OSSA E DELLE CARTILAGINI

I.C.D. 213

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT. %	TASSO
<b>BARLASSERA</b>				
BOVISTO MASCIAGO	6	2.92	205.26	1.19
CESANO MADERNO	8	8.18	97.76	0.57
DESIO	7	8.32	84.16	0.48
LENTATE SUL SEVESO	2	3.27	61.12	0.36
MEDA	5	5.00	99.92	6.58
MUGGIO'	7	4.97	140.76	0.82
NOVA MELARESE	4	4.99	80.15	0.47
SEREGNO	9	9.41	95.65	0.56
SEVESO	4	4.44	90.04	0.52
VARESO	4	3.06	130.50	0.76
<b>TOTALE COMUNI</b>	<b>56</b>	<b>56</b>	<b>100</b>	<b>0.58</b>
<b>ZONA A</b>				
ZONA A	1	0.17	597.60	3.48
<b>ZONA B</b>				
ZONA B	1	1.24	80.84	0.47
<b>ZONA C</b>				
ZONA C	5	8.21	60.39	0.35
<b>FUORI B</b>				
FUORI B	49	46.36	105.69	0.61

\* Tasso Registro Tumori di Varese

ALTRI TUMORI BENIGNI DEI TESSUTI MUSCOLARE E CONNETTIVO

I.C.D. 215

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT.%	TASSO
BARLASSINA				
BOVISIO MASCIAGO				
CESANO MADERNO				
DESIO	2	1.19	168.32	0.14
LEGNATE SUL SEVESO	1	0.47	213.93	0.18
MEDA	1	0.71	139.88	0.12
MUGGIO'				
NOVA MILANESE	1	0.71	140.26	0.12
SESECIANO	2	1.34	148.79	0.12
SEVESO				
VAREDO	1	0.44	228.37	0.19
<b>TOTALE COMUNI</b>	<b>8</b>	<b>8</b>	<b>100</b>	<b>0.08</b>
ZONA A				
ZONA B				
ZONA R	1	1.17	82.25	0.07
FUCSI B	7	6.62	105.69	0.09

a Tasso Registro Tumori di Varese

TUMORE BENIGNO DELLE ghiandole endocrine

I.C.D. 226

ANNI 1977-80

COMUNE	CSS.	ATT.	CSS./ATT.%	TASSO
BARLASSINA				
BOVISIO MASCIAGO				
CESANO MADERNO	1	0.29	342.16	0.07
DESIO	1	0.30	336.64	0.07
LENTATE SUL SEVESO				
MEDA				
MUGGIO'				
NOVA MILANESE				
SESEGIO				
SEVESO				
VAREDO				
<b>TOTALE COMUNI</b>	<b>2</b>	<b>2</b>	<b>100</b>	<b>0.02</b>
ZONA A				
ZONA B				
ZONA R	1	0.29	341.01	0.07
FUORI R	1	1.66	60.39	0.01

\* Tasso Registro Tumori di Varese

TUMORE DI NATURA NON SPECIFICATA DEL FEGATO E DELLE VIE BILIARI

I.C.D. 230.5

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT.%	TASSO
BARLASSINA				
BOVISIO MASCIAGO				
CESANO MADERNO	1	0.88	114.05	0.07
DESIO				
LEGNATE SUL SEVESO	1	0.35	285.25	0.18
MEHA				
MUGGIO'	2	0.53	375.35	0.23
NOVA MILANESE				
SESEGIO	2	1.01	198.39	0.12
SEVESO				
VARESGO				
<b>TOTALE COMUNI</b>	<b>6</b>	<b>6</b>	<b>100</b>	<b>0.06</b>
ZONA A				
ZONA B				
ZONA C	1	0.88	113.67	0.07
FUORI C	5	4.97	166	0.06

\* Tasso Registro Tumori di Varese



L. 11. 1977 - 332

COMUNE	SSS.	AMM.	OSS./AMM. %	TRASSO
VALMADRERA	1	0.88	114.05	0.07
VALMADRERA	1	0.35	285.25	0.18
VALMADRERA	3	0.53	963.03	0.35
VALMADRERA	1	0.53	107.01	0.12
<b>TOTALE</b>	<b>6</b>	<b>4.37</b>	<b>100.79</b>	<b>0.86</b>

AMM. 1977-80

L. 11. 1977 - 332

TUMORE DI NATURA NON SPECIFICATA DELLA PELLE E DEL SISTEMA OSTEO-MUSCOLARE

TUMORE DI NATURA NON SPECIFICATA DELLA PELLE E DEL SISTEMA OSTEO-MUSCOLARE

I.C.D. 232

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT.%	TASSO
BARLASSINA				
BOVISIO MASCIAGO				
CESANO MADERNO	1	0.88	114.05	0.07
DESIO				
LEGNATE SUL SEVESO	1	0.35	285.25	0.18
MEGA				
MUGGIO'	3	0.53	563.03	0.35
NOVA MILANESE	1	0.53	107.01	0.12
SPEREGNO				
SEVESO				
VAREDO				
TOTALE COMUNI	6	6	100	0.06
ZONA A				
ZONA B				
ZONA C				
FUORI C	6	4.97	120.79	0.08

in Casso Registro Tumori di Varese

RECAPITOLAZIONE PER SETTORE

COMUNE	OSS.	AMM.	OSS./AMM. %	TASSO
BARLASSINA	1	0.31	319.29	0.20
BOVISIO MASCIAGO				
CESANO MADRINO				
DESIO				
LEGNATE SUL SEVISO	1	0.35	285.25	0.18
MEVA				
MORIGIO				
NOVA MANTOVANA				
SESTO	2	1.01	156.39	0.12
SEVISO	1	0.46	210.10	0.13
VAREDO	1	0.35	104.50	0.19
TOTALE COMUNI	6	6.00	100	0.06
ZONA A				
ZONA B	1	0.38	113.67	0.07
ZONA C	5	4.97	100.66	0.06

ANNO 1977-80

I.C.D. 238

TEMORE DI NATURA NON SPECIFICA DELLA ENCEFALITE E DELLE ALTRE PARTI DEL SISTEMA NERVOSO

TUMORE MALIGNO DEL RENE E DELLA PELVI RENALE

L.C.D. 189

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT. %	TASSO
BARLASSINA	-	-	-	-
BOVESIO MASCIAGO	1	2.40	41.65	0.20
CESANO MADERNO	9	6.72	133.89	0.64
DESIO	8	6.83	117.09	0.56
LEGNATE SUL SEVESO	4	2.69	148.82	0.71
META	3	4.11	62.08	0.35
MUGGIO	5	4.09	122.40	0.58
NOVA MILANESE	-	4.09	-	-
SESTO	11	7.73	142.32	0.36
SEVESO	2	3.65	54.81	0.26
VAREDO	3	2.52	119.15	0.57
TOTALE COMUNI	46	46	100	0.48
ZONA A	-	0.17	-	-
ZONA B	-	1.01	-	-
ZONA C	6	6.74	88.96	0.43
FUORI C	40	38.08	105.03	0.50

« Tasso Registro Tumori di Varese »

TUMORE DI NATURA NON SPECIFICATA DEL RENE E DELLA PELVI RENALE

I.C.D. 237

ANNI 1977-80

COMUNE	OSS.	ATT.	OSS./ATT. %	TASSO
BARIASSINA				
BOVESIO MASCIAGO				
CESANO MADERNO				
DESIO				
LEGNATE SUL SEVESO				
MEDA				
MUGGIO'	1	0.27	375.35	0.12
NOVA MILESESE	1	0.27	374.02	0.12
SESEGIO	1	0.50	198.39	0.06
SEVESO				
VAREDO				
<b>TOTALE COMUNI</b>	<b>3</b>	<b>3</b>	<b>100</b>	<b>0.03</b>
ZONA A				
ZONA B				
ZONA C				
<b>FUORI R</b>	<b>3</b>	<b>2.48</b>	<b>120.79</b>	<b>0.04</b>

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« Casso Registro Tumori di Varese

TUMORE MALIGNO DEL S.N.C. E DEL S.N.P.

I.C.D. 191-192

ANNE 1977-80

COMUNE	OSS.	ATT.	OSS./ATT. %	TASSO
BARLASSINA	-	1.23	-	-
SOVIZIO MASCIAGO	3	2.56	117.29	0.60
COSSANO MADERNO	5	7.16	69.83	0.36
DESIO	11	7.28	151.14	0.77
LENTATE SUL SEVESO	2	2.86	69.86	0.36
MEDA	4	4.38	91.35	0.47
MUGGIO'	7	4.35	160.87	0.82
NOVA MILANESE	5	4.37	114.50	0.58
SERSIZIO	7	3.23	85.02	0.43
SEVESO	4	3.89	102.91	0.52
VAREDO	1	2.68	37.29	0.19
<b>TOTALE COMUNI</b>	<b>49</b>	<b>49</b>	<b>100</b>	<b>0.51</b>
ZONA 1	-	0.18	-	-
ZONA 2	-	1.07	-	-
ZONA 3	7	7.18	97.43	0.50
FUORI 3	42	40.57	106.53	0.53

a Tasso Registro Tumori di Varese