

ITALY, Romagna (1990-2012)

	Number of cases							Percentage				Incidence rates per million person-years								MV % 0-19	DCO % 0-19		
	Age group							0-14		0-19		Age-specific					Cumulative						
	0	1-4	5-9	10-14	15-19	0-14	0-19	All	Group	All	Group	0	1-4	5-9	10-14	15-19	0-14	ASR	0-19			0-14	0-19
I LEUKAEMIA	9	55	50	25	30	139	169	25.7	100.0	20.3	100.0	46.5	70.9	52.9	25.7	27.4	50.1	45.0	723	861	98.2	0.6	
a. Lymphoid	5	46	41	20	13	112	125	20.7	80.6	15.0	74.0	25.9	59.3	43.4	20.6	11.9	40.3	33.9	583	642	99.2	0.8	
b. Acute myeloid	4	8	7	2	8	21	29	3.9	15.1	3.5	17.2	20.7	10.3	7.4	2.1	7.3	7.8	7.7	109	146	100.0	0.0	
c. CMD	0	1	0	1	5	2	7	0.4	1.4	0.8	4.1	-	1.3	-	1.0	4.6	0.7	1.6	10	33	100.0	0.0	
d. MDS & other	0	0	0	1	1	1	2	0.2	0.7	0.2	1.2	-	-	-	1.0	0.9	0.3	0.4	5	10	100.0	0.0	
e. Unspecified	0	0	2	1	3	3	6	0.6	2.2	0.7	3.6	-	-	2.1	1.0	2.7	1.0	1.4	16	29	66.7	0.0	
II LYMPHOMA & RELATED	3	16	22	39	76	80	156	14.8	100.0	18.8	100.0	15.5	20.6	23.3	40.1	69.5	26.8	36.4	415	763	95.5	0.6	
a. Hodgkin	0	1	6	23	53	30	83	5.5	37.5	10.0	53.2	-	1.3	6.4	23.7	48.5	9.3	18.1	155	398	100.0	0.0	
b. Non-Hodgkin except BL	1	6	8	8	15	23	38	4.3	28.7	4.6	24.4	5.2	7.7	8.5	8.2	13.7	7.9	9.2	120	188	100.0	0.0	
c. Burkitt (BL)	0	3	5	5	5	13	18	2.4	16.3	2.2	11.5	-	3.9	5.3	5.1	4.6	4.4	4.4	68	91	100.0	0.0	
d. Lymphoreticular	2	4	2	0	0	8	8	1.5	10.0	1.0	5.1	10.3	5.2	2.1	-	-	3.1	2.4	42	42	100.0	0.0	
e. Unspecified	0	2	1	3	3	6	9	1.1	7.5	1.1	5.8	-	2.6	1.1	3.1	2.7	2.0	2.2	31	45	22.2	11.1	
III CNS NEOPLASMS †	4	48	39	33	37	124	161	22.9	100.0	19.4	100.0	20.7	61.9	41.3	34.0	33.8	43.9	41.7	644	814	64.6	0.0	
a. Ependymoma	0	3	3	3	1	9	10	1.7	7.3	1.2	6.2	-	3.9	3.2	3.1	0.9	3.1	2.6	47	51	90.0	0.0	
b. Astrocytoma	0	18	14	11	11	43	54	7.9	34.7	6.5	33.5	-	23.2	14.8	11.3	10.1	15.3	14.1	224	274	94.4	0.0	
c. CNS embryonal	1	9	2	2	2	14	16	2.6	11.3	1.9	9.9	5.2	11.6	2.1	2.1	1.8	5.3	4.5	72	82	100.0	0.0	
d. Other gliomas	0	4	1	2	1	7	8	1.3	5.6	1.0	5.0	-	5.2	1.1	2.1	0.9	2.5	2.2	36	41	62.5	0.0	
e. Other specified	1	2	6	5	12	14	26	2.6	11.3	3.1	16.1	5.2	2.6	6.4	5.1	11.0	4.7	6.1	73	128	80.8	0.0	
f. Unspecified CNS	2	12	13	10	10	37	47	6.8	29.8	5.6	29.2	10.3	15.5	13.8	10.3	9.1	13.0	12.1	192	238	4.3	0.0	
IV NEUROBLASTOMA	13	21	5	0	0	39	39	7.2	100.0	4.7	100.0	67.2	27.1	5.3	-	-	15.3	11.8	202	202	89.7	0.0	
a. (Ganglio)neuroblastoma	13	21	5	0	0	39	39	7.2	100.0	4.7	100.0	67.2	27.1	5.3	-	-	15.3	11.8	202	202	89.7	0.0	
b. Peripheral nervous	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
V RETINOBLASTOMA	6	5	0	0	0	11	11	2.0	100.0	1.3	100.0	31.0	6.4	-	-	-	4.4	3.4	57	57	81.8	0.0	
VI RENAL TUMOURS	4	16	6	2	1	28	29	5.2	100.0	3.5	100.0	20.7	20.6	6.4	2.1	0.9	10.6	8.4	145	150	86.2	0.0	
a. Nephroblastoma	4	16	5	0	0	25	25	4.6	89.3	3.0	86.2	20.7	20.6	5.3	-	-	9.7	7.5	130	130	92.0	0.0	
b. Renal carcinoma	0	0	0	1	1	1	2	0.2	3.6	0.2	6.9	-	-	-	1.0	0.9	0.3	0.4	5	10	100.0	0.0	
c. Unspecified	0	0	1	1	0	2	2	0.4	7.1	0.2	6.9	-	-	1.1	1.0	-	0.6	0.5	10	10	0.0	0.0	
VII HEPATIC TUMOURS	0	4	2	0	1	6	7	1.1	100.0	0.8	100.0	-	5.2	2.1	-	0.9	2.3	2.0	31	36	100.0	0.0	
a. Hepatoblastoma	0	3	2	0	0	5	5	0.9	83.3	0.6	71.4	-	3.9	2.1	-	-	1.9	1.5	26	26	100.0	0.0	
b. Hepatic carcinoma	0	1	0	0	1	1	2	0.2	16.7	0.2	28.6	-	1.3	-	-	0.9	0.4	0.5	5	10	100.0	0.0	
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VIII BONE TUMOURS	0	1	7	19	17	27	44	5.0	100.0	5.3	100.0	-	1.3	7.4	19.6	15.5	8.5	10.1	140	218	97.7	0.0	
a. Osteosarcoma	0	0	3	6	7	9	16	1.7	33.3	1.9	36.4	-	-	3.2	6.2	6.4	2.8	3.6	47	79	100.0	0.0	
b. Chondrosarcoma	0	0	0	3	0	3	3	0.6	11.1	0.4	6.8	-	-	-	3.1	-	0.9	0.7	15	15	100.0	0.0	
c. Ewing & related	0	1	4	8	10	13	23	2.4	48.1	2.8	52.3	-	1.3	4.2	8.2	9.1	4.2	5.3	67	113	100.0	0.0	
d. Other specified	0	0	0	1	0	1	1	0.2	3.7	0.1	2.3	-	-	-	1.0	-	0.3	0.2	5	5	100.0	0.0	
e. Unspecified	0	0	0	1	0	1	1	0.2	3.7	0.1	2.3	-	-	-	1.0	-	0.3	0.2	5	5	0.0	0.0	
IX SOFT TISSUE SARCOMA	6	6	11	7	20	30	50	5.5	100.0	6.0	100.0	31.0	7.7	11.6	7.2	18.3	10.6	12.4	156	248	100.0	0.0	
a. Rhabdomyosarcoma	1	2	7	4	8	14	22	2.6	46.7	2.6	44.0	5.2	2.6	7.4	4.1	7.3	4.8	5.4	73	110	100.0	0.0	
b. Fibrosarcoma	1	1	1	2	1	5	6	0.9	16.7	0.7	12.0	5.2	1.3	1.1	2.1	0.9	1.7	1.6	26	30	100.0	0.0	
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
d. Other specified	2	1	1	0	10	4	14	0.7	13.3	1.7	28.0	10.3	1.3	1.1	-	9.1	1.5	3.3	21	66	100.0	0.0	
e. Unspecified	2	2	2	1	1	7	8	1.3	23.3	1.0	16.0	10.3	2.6	2.1	1.0	0.9	2.6	2.2	36	41	100.0	0.0	
X GERM CELL TUMOURS	4	2	2	6	22	14	36	2.6	100.0	4.3	100.0	20.7	2.6	2.1	6.2	20.1	4.9	8.3	72	173	97.2	0.0	
a. CNS germ cell	1	0	0	1	0	2	2	0.4	14.3	0.2	5.6	5.2	-	-	1.0	-	0.7	0.5	10	10	100.0	0.0	
b. Other extragonadal	3	0	0	0	0	3	3	0.6	21.4	0.4	8.3	15.5	-	-	-	-	1.2	0.9	15	15	100.0	0.0	
c. Gonadal germ cell	0	2	2	4	18	8	26	1.5	57.1	3.1	72.2	-	2.6	2.1	4.1	16.5	2.7	5.8	41	124	100.0	0.0	
d. Gonadal carcinoma	0	0	0	0	3	0	3	-	-	0.4	8.3	-	-	-	-	2.7	-	0.6	-	14	14	100.0	0.0
e. Unspecified gonadal	0	0	0	1	1	1	2	0.2	7.1	0.2	5.6	-	-	-	1.0	0.9	0.3	0.4	5	10	50.0	0.0	
XI CARCINOMA & MELANOMA	0	2	6	22	83	30	113	5.5	100.0	13.6	100.0	-	2.6	6.4	22.6	75.9	9.4	24.4	155	535	100.0	0.0	
a. Adrenocortical	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
b. Thyroid	0	0	1	5	30	6	36	1.1	20.0	4.3	31.9	-	-	1.1	5.1	27.4	1.8	7.6	31	168	100.0	0.0	
c. Nasopharyngeal	0	0	0	1	1	1	2	0.2	3.3	0.2	1.8	-	-	-	1.0	0.9	0.3	0.4	5	10	100.0	0.0	
d. Melanoma	0	1	1	7	23	9	32	1.7	30.0	3.8	28.3	-	1.3	1.1	7.2	21.0	2.8	6.9	46	152	100.0	0.0	
e. Skin carcinoma	0	1	1	3	15	5	20	0.9	16.7	2.4	17.7	-	1.3	1.1	3.1	13.7	1.6	4.4	26	94	100.0	0.0	
f. Other & unspecified	0	0	3	6	14	9	23	1.7	30.0	2.8	20.4	-	-	3.2	6.2	12.8	2.8	5.1	47	111	100.0	0.0	
XII OTHER & UNSPECIFIED	2	5	3	3	4	13	17	2.4	100.0	2.0	100.0	10.3	6.4	3.2	3.1	3.7	4.7	4.5	67	86	23.5	0.0	
a. Other specified	0	2	0	0	1	2	3	0.4	15.4	0.4	17.6	-	2.6	-	-	0.9	0.8	0.8	10	15	100.0	0.0	
b. Other unspecified	2	3	3	3	3	11	14	2.0	84.6	1.7	82.4	10.3	3.9	3.2	3.1	2.7	3.9	3.7	57	71	7.1	0.0	
TOTAL	51	181	153	156	291	541	832	100.0	100.0	100.0	100.0	263.7	233.2	162.0	160.5	266.1	191.5	208.3	2809	4139	88.9	0.2	

† includes 82 non-malignant

Please consult the quality indicators for this registry

ITALY, Romagna (1990-2012)

	Males										M/F ratio		Females									
	Number of cases in age groups										0-14	0-19	Number of cases in age groups									
	0	1-4	5-9	10-14	15-19	0-14	0-19	ASR per million	0-14	0-19			0	1-4	5-9	10-14	15-19	0-14	0-19	ASR per million	0-14	0-19
I LEUKAEMIA	4	37	25	15	16	81	97	57.2	50.7	1.4	1.3	5	18	25	10	14	58	72	42.6	39.0		
a. Lymphoid	3	31	20	13	9	67	76	47.2	40.2	1.5	1.6	2	15	21	7	4	45	49	33.0	27.3		
b. Acute myeloid	1	5	4	1	5	11	16	7.9	8.1	1.1	1.2	3	3	3	1	3	10	13	7.7	7.2		
c. CMD	0	1	0	1	1	2	3	1.4	1.5	-	0.8	0	0	0	0	4	0	4	-	1.7		
d. MDS & other	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	1	1	1	2	0.6	0.9		
e. Unspecified	0	0	1	0	1	1	2	0.7	0.9	0.5	0.5	0	0	1	1	2	2	4	1.3	1.9		
II LYMPHOMA & RELATED	2	11	16	16	42	45	87	30.0	40.1	1.3	1.3	1	5	6	23	34	35	69	23.3	32.5		
a. Hodgkin	0	1	3	8	25	12	37	7.4	15.7	0.7	0.8	0	0	3	15	28	18	46	11.3	20.6		
b. Non-Hodgkin except BL	0	4	7	4	10	15	25	10.1	11.8	1.9	1.9	1	2	1	4	5	8	13	5.6	6.5		
c. Burkitt (BL)	0	3	4	2	4	9	13	6.2	6.4	2.3	2.6	0	0	1	3	1	4	5	2.5	2.4		
d. Lymphoreticular	2	1	2	0	0	5	5	3.7	2.8	1.7	1.7	0	3	0	0	0	3	3	2.5	1.9		
e. Unspecified	0	2	0	2	3	4	7	2.7	3.3	2.0	3.5	0	0	1	1	0	2	2	1.3	1.0		
III CNS NEOPLASMS †	2	24	17	19	26	62	88	42.5	43.3	1.0	1.2	2	24	22	14	11	62	73	45.4	39.9		
a. Ependymoma	0	2	1	3	1	6	7	4.0	3.5	2.0	2.3	0	1	2	0	0	3	3	2.2	1.7		
b. Astrocytoma	0	7	8	3	7	18	25	12.5	12.5	0.7	0.9	0	11	6	8	4	25	29	18.2	15.8		
c. CNS embryonal	1	6	0	1	2	8	10	6.0	5.5	1.3	1.7	0	3	2	1	0	6	6	4.5	3.5		
d. Other gliomas	0	4	0	2	1	6	7	4.3	3.7	6.0	7.0	0	0	1	0	0	1	1	0.7	0.5		
e. Other specified	0	1	2	3	7	6	13	3.9	5.8	0.8	1.0	1	1	4	2	5	8	13	5.7	6.5		
f. Unspecified CNS	1	4	6	7	8	18	26	11.9	12.4	0.9	1.2	1	8	7	3	2	19	21	14.2	11.8		
IV NEUROBLASTOMA	7	10	4	0	0	21	21	15.9	12.3	1.2	1.2	6	11	1	0	0	18	18	14.7	11.4		
a. (Ganglio)neuroblastoma	7	10	4	0	0	21	21	15.9	12.3	1.2	1.2	6	11	1	0	0	18	18	14.7	11.4		
b. Peripheral nervous	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
V RETINOBLASTOMA	3	4	0	0	0	7	7	5.4	4.2	1.8	1.8	3	1	0	0	0	4	4	3.3	2.5		
VI RENAL TUMOURS	2	10	2	1	1	15	16	11.2	9.1	1.2	1.2	2	6	4	1	0	13	13	10.0	7.8		
a. Nephroblastoma	2	10	2	0	0	14	14	10.6	8.2	1.3	1.3	2	6	3	0	0	11	11	8.7	6.7		
b. Renal carcinoma	0	0	0	0	1	0	1	-	0.4	0.0	1.0	0	0	0	1	0	1	1	0.6	0.5		
c. Unspecified	0	0	0	1	0	1	1	0.6	0.5	1.0	1.0	0	0	1	0	0	1	1	0.7	0.5		
VII HEPATIC TUMOURS	0	1	2	0	1	3	4	2.1	2.0	1.0	1.3	0	3	0	0	0	3	3	2.5	1.9		
a. Hepatoblastoma	0	1	2	0	0	3	3	2.1	1.6	1.5	1.5	0	2	0	0	0	2	2	1.6	1.3		
b. Hepatic carcinoma	0	0	0	0	1	0	1	-	0.4	0.0	1.0	0	1	0	0	0	1	1	0.8	0.6		
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
VIII BONE TUMOURS	0	0	4	11	8	15	23	9.1	10.2	1.3	1.1	0	1	3	8	9	12	21	7.8	9.9		
a. Osteosarcoma	0	0	2	3	4	5	9	3.1	4.0	1.3	1.3	0	0	1	3	3	4	7	2.5	3.2		
b. Chondrosarcoma	0	0	0	2	0	2	2	1.2	0.9	2.0	2.0	0	0	0	1	0	1	1	0.6	0.5		
c. Ewing & related	0	0	2	6	4	8	12	4.8	5.3	1.6	1.1	0	1	2	2	6	5	11	3.5	5.2		
d. Other specified	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	1	0	1	1	0.6	0.5		
e. Unspecified	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	1	0	1	1	0.6	0.5		
IX SOFT TISSUE SARCOMA	4	3	6	6	15	19	34	12.9	16.0	1.7	2.1	2	3	5	1	5	11	16	8.2	8.5		
a. Rhabdomyosarcoma	1	1	5	3	6	10	16	6.6	7.5	2.5	2.7	0	1	2	1	2	4	6	2.8	3.1		
b. Fibrosarcoma	1	0	0	2	1	3	4	1.9	1.9	1.5	2.0	0	1	1	0	0	2	2	1.5	1.2		
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
d. Other specified	1	0	0	0	8	1	9	0.8	3.8	0.3	1.8	1	1	1	0	2	3	5	2.3	2.7		
e. Unspecified	1	2	1	1	0	5	5	3.6	2.8	2.5	1.7	1	0	1	0	1	2	3	1.5	1.6		
X GERM CELL TUMOURS	1	2	0	2	15	5	20	3.5	8.7	0.6	1.3	3	0	2	4	7	9	16	6.3	7.9		
a. CNS germ cell	0	0	0	0	0	0	0	-	-	0.0	0.0	1	0	0	1	0	2	2	1.4	1.1		
b. Other extragonadal	1	0	0	0	0	1	1	0.8	0.6	0.5	0.5	2	0	0	0	0	2	2	1.6	1.3		
c. Gonadal germ cell	0	2	0	1	14	3	17	2.1	7.2	0.6	1.9	0	0	2	3	4	5	9	3.2	4.2		
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	3	0	3	-	1.3		
e. Unspecified gonadal	0	0	0	1	1	1	2	0.6	0.9	-	-	0	0	0	0	0	0	0	-	-		
XI CARCINOMA & MELANOMA	0	1	2	12	25	15	40	9.1	17.0	1.0	0.5	0	1	4	10	58	15	73	9.8	32.2		
a. Adrenocortical	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
b. Thyroid	0	0	0	2	5	2	7	1.2	2.9	0.5	0.2	0	0	1	3	25	4	29	2.5	12.6		
c. Nasopharyngeal	0	0	0	1	0	1	1	0.6	0.5	-	1.0	0	0	0	0	1	0	1	-	0.4		
d. Melanoma	0	0	0	3	6	3	9	1.7	3.7	0.5	0.4	0	1	1	4	17	6	23	4.0	10.3		
e. Skin carcinoma	0	1	0	2	10	3	13	1.9	5.5	1.5	1.9	0	0	1	1	5	2	7	1.3	3.1		
f. Other & unspecified	0	0	2	4	4	6	10	3.7	4.4	2.0	0.8	0	0	1	2	10	3	13	1.9	5.7		
XII OTHER & UNSPECIFIED	1	3	0	0	3	4	7	3.1	3.6	0.4	0.7	1	2	3	3	1	9	10	6.4	5.4		
a. Other specified	0	1	0	0	1	1	2	0.8	1.0	1.0	2.0	0	1	0	0	0	1	1	0.8	0.6		
b. Other unspecified	1	2	0	0	2	3	5	2.3	2.6	0.4	0.6	1	1	3	3	1	8	9	5.6	4.8		
TOTAL	26	106	78	82	152	292	444	202.0	217.3	1.2	1.1	25	75	75	74	139	249	388	180.4	198.7		

† includes 46 non-malignant in males and 36 non-malignant in females

Please consult the quality indicators for this registry

ITALY, Romagna (1990-2012)

	Age group	Males	Females
Person-years	0	99 560	93 829
	1-4	399 206	376 810
	5-9	485 338	459 190
	10-14	499 231	472 582
	15-19	563 124	530 629
Total	0-14	1 483 335	1 402 411
	0-19	2 046 459	1 933 040
Average annual population	0-14	64 493	60 974
	0-19	88 976	84 045

Please consult the quality indicators for this registry