

THAILAND, Lampang (1993-2013)

	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	15	47	38	45	43	145	188	45.6	100.0	38.2	100.0	103.2	67.3	38.6	40.8	36.7	52.8	49.1	765	948	100.0	0.0	
a. Lymphoid	6	29	29	20	20	84	104	26.4	57.9	21.1	55.3	41.3	41.5	29.5	18.2	17.1	30.8	27.7	445	531	100.0	0.0	
b. Acute myeloid	5	9	5	14	11	33	44	10.4	22.8	8.9	23.4	34.4	12.9	5.1	12.7	9.4	11.8	11.2	172	219	100.0	0.0	
c. CMD	0	1	0	1	2	2	4	0.6	1.4	0.8	2.1	-	1.4	-	0.9	1.7	0.7	0.9	10	19	100.0	0.0	
d. MDS & other	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
e. Unspecified	4	8	4	10	10	26	36	8.2	17.9	7.3	19.1	27.5	11.5	4.1	9.1	8.5	9.5	9.2	137	180	100.0	0.0	
II LYMPHOMA & RELATED	0	9	8	17	22	34	56	10.7	100.0	11.4	100.0	-	12.9	8.1	15.4	18.8	11.2	12.9	171	265	100.0	0.0	
a. Hodgkin	0	3	1	5	3	9	12	2.8	26.5	2.4	21.4	-	4.3	1.0	4.5	2.6	3.0	2.9	46	58	100.0	0.0	
b. Non-Hodgkin except BL	0	3	5	11	12	19	31	6.0	55.9	6.3	55.4	-	4.3	5.1	10.0	10.2	5.9	6.9	93	144	100.0	0.0	
c. Burkitt (BL)	0	1	0	0	0	1	1	0.3	2.9	0.2	1.8	-	1.4	-	-	-	0.5	0.4	6	6	100.0	0.0	
d. Lymphoreticular	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
e. Unspecified	0	2	2	1	7	5	12	1.6	14.7	2.4	21.4	-	2.9	2.0	0.9	6.0	1.8	2.8	27	56	100.0	0.0	
III CNS NEOPLASMS	3	9	15	9	10	36	46	11.3	100.0	9.3	100.0	20.6	12.9	15.2	8.2	8.5	12.8	11.8	188	231	63.0	4.3	
a. Ependymoma	0	0	1	1	1	2	3	0.6	5.6	0.6	6.5	-	-	1.0	0.9	0.9	0.6	0.7	10	14	100.0	0.0	
b. Astrocytoma	0	4	1	2	6	7	13	2.2	19.4	2.6	28.3	-	5.7	1.0	1.8	5.1	2.7	3.2	38	63	100.0	0.0	
c. CNS embryonal	2	1	4	3	0	10	10	3.1	27.8	2.0	21.7	13.8	1.4	4.1	2.7	-	3.5	2.7	52	52	100.0	0.0	
d. Other gliomas	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
e. Other specified	0	0	1	1	1	2	3	0.6	5.6	0.6	6.5	-	-	1.0	0.9	0.9	0.6	0.7	10	14	100.0	0.0	
f. Unspecified CNS	1	4	8	2	2	15	17	4.7	41.7	3.5	37.0	6.9	5.7	8.1	1.8	1.7	5.4	4.6	79	88	0.0	11.8	
IV NEUROBLASTOMA	0	8	1	0	0	9	9	2.8	100.0	1.8	100.0	-	11.5	1.0	-	-	4.0	3.1	52	52	100.0	0.0	
a. (Ganglio)neuroblastoma	0	8	1	0	0	9	9	2.8	100.0	1.8	100.0	-	11.5	1.0	-	-	4.0	3.1	52	52	100.0	0.0	
b. Peripheral nervous	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
V RETINOBLASTOMA	1	3	2	0	0	6	6	1.9	100.0	1.2	100.0	6.9	4.3	2.0	-	-	2.5	1.9	34	34	100.0	0.0	
VI RENAL TUMOURS	0	8	1	0	0	9	9	2.8	100.0	1.8	100.0	-	11.5	1.0	-	-	4.0	3.1	52	52	88.9	0.0	
a. Nephroblastoma	0	7	0	0	0	7	7	2.2	77.8	1.4	77.8	-	10.0	-	-	-	3.2	2.5	41	41	100.0	0.0	
b. Renal carcinoma	0	0	1	0	0	1	1	0.3	11.1	0.2	11.1	-	-	1.0	-	-	0.3	0.3	5	5	100.0	0.0	
c. Unspecified	0	1	0	0	0	1	1	0.3	11.1	0.2	11.1	-	1.4	-	-	-	0.5	0.4	6	6	0.0	0.0	
VII HEPATIC TUMOURS	3	1	2	3	1	9	10	2.8	100.0	2.0	100.0	20.6	1.4	2.0	2.7	0.9	3.3	2.7	47	52	60.0	10.0	
a. Hepatoblastoma	2	1	0	0	0	3	3	0.9	33.3	0.6	30.0	13.8	1.4	-	-	-	1.4	1.1	18	18	100.0	0.0	
b. Hepatic carcinoma	0	0	1	1	1	2	3	0.6	22.2	0.6	30.0	-	-	1.0	0.9	0.9	0.6	0.7	10	14	100.0	0.0	
c. Unspecified	1	0	1	2	0	4	4	1.3	44.4	0.8	40.0	6.9	-	1.0	1.8	-	1.3	1.0	20	20	0.0	25.0	
VIII BONE TUMOURS	0	0	3	5	10	8	18	2.5	100.0	3.7	100.0	-	-	3.0	4.5	8.5	2.3	3.7	38	81	88.9	5.6	
a. Osteosarcoma	0	0	2	5	5	7	12	2.2	87.5	2.4	66.7	-	-	2.0	4.5	4.3	2.0	2.5	33	54	100.0	0.0	
b. Chondrosarcoma	0	0	0	0	2	0	2	-	-	0.4	11.1	-	-	-	-	1.7	-	0.4	-	9	9	100.0	0.0
c. Ewing & related	0	0	0	0	2	0	2	-	-	0.4	11.1	-	-	-	-	1.7	-	0.4	-	9	9	100.0	0.0
d. Other specified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
e. Unspecified	0	0	1	0	1	1	2	0.3	12.5	0.4	11.1	-	-	1.0	-	0.9	0.3	0.4	5	9	0.0	50.0	
IX SOFT TISSUE SARCOMA	1	4	3	4	12	12	24	3.8	100.0	4.9	100.0	6.9	5.7	3.0	3.6	10.2	4.3	5.7	63	114	100.0	0.0	
a. Rhabdomyosarcoma	1	2	1	2	3	6	9	1.9	50.0	1.8	37.5	6.9	2.9	1.0	1.8	2.6	2.2	2.3	32	45	100.0	0.0	
b. Fibrosarcoma	0	0	0	1	0	1	1	0.3	8.3	0.2	4.2	-	-	-	0.9	-	0.3	0.2	5	5	100.0	0.0	
c. Kaposi sarcoma	0	0	0	0	1	0	1	-	-	0.2	4.2	-	-	-	-	0.9	-	0.2	-	4	4	100.0	0.0
d. Other specified	0	2	2	1	6	5	11	1.6	41.7	2.2	45.8	-	2.9	2.0	0.9	5.1	1.8	2.6	27	52	100.0	0.0	
e. Unspecified	0	0	0	0	2	0	2	-	-	0.4	8.3	-	-	-	-	1.7	-	0.4	-	9	9	100.0	0.0
X GERM CELL TUMOURS	0	4	3	4	22	11	33	3.5	100.0	6.7	100.0	-	5.7	3.0	3.6	18.8	3.9	7.2	57	151	78.8	0.0	
a. CNS germ cell	0	0	1	0	2	1	3	0.3	9.1	0.6	9.1	-	-	1.0	-	1.7	0.3	0.6	5	14	100.0	0.0	
b. Other extragonadal	0	0	0	0	3	0	3	-	-	0.6	9.1	-	-	-	-	2.6	-	0.6	-	13	13	100.0	0.0
c. Gonadal germ cell	0	4	2	3	6	9	15	2.8	81.8	3.0	45.5	-	5.7	2.0	2.7	5.1	3.3	3.7	47	73	100.0	0.0	
d. Gonadal carcinoma	0	0	0	0	5	0	5	-	-	1.0	15.2	-	-	-	-	4.3	-	1.0	-	21	21	100.0	0.0
e. Unspecified gonadal	0	0	0	1	6	1	7	0.3	9.1	1.4	21.2	-	-	-	0.9	5.1	0.3	1.4	5	30	0.0	0.0	
XI CARCINOMA & MELANOMA	1	1	4	17	38	23	61	7.2	100.0	12.4	100.0	6.9	1.4	4.1	15.4	32.4	6.7	12.5	109	272	100.0	0.0	
a. Adrenocortical	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
b. Thyroid	0	0	0	7	15	7	22	2.2	30.4	4.5	36.1	-	-	-	6.4	12.8	1.8	4.3	32	96	100.0	0.0	
c. Nasopharyngeal	0	0	0	2	6	2	8	0.6	8.7	1.6	13.1	-	-	-	1.8	5.1	0.5	1.6	9	35	100.0	0.0	
d. Melanoma	0	1	1	1	0	3	3	0.9	13.0	0.6	4.9	-	1.4	1.0	0.9	-	1.1	0.8	16	16	100.0	0.0	
e. Skin carcinoma	0	0	0	3	1	3	4	0.9	13.0	0.8	6.6	-	-	-	2.7	0.9	0.8	0.8	14	18	100.0	0.0	
f. Other & unspecified	1	0	3	4	16	8	24	2.5	34.8	4.9	39.3	6.9	-	3.0	3.6	13.7	2.5	5.0	39	108	100.0	0.0	
XII OTHER & UNSPECIFIED	0	9	2	5	16	16	32	5.0	100.0	6.5	100.0	-	12.9	2.0	4.5	13.7	6.1	7.8	86	154	3.1	34.4	
a. Other specified	0	0	1	0	0	1	1	0.3	6.3	0.2	3.1	-	-	1.0	-	-	0.3	0.3	5	5	100.0	0.0	
b. Other unspecified	0	9	1	5	16	15	31	4.7	93.8	6.3	96.9	-	12.9	1.0	4.5	13.7	5.8	7.5	81	149	0.0	35.5	
TOTAL	24	103	82	109	174	318	492	100.0	100.0	100.0	100.0	165.1	147.5	83.3	98.9	148.5	113.9	121.7	1664	2407	87.4	3.0	

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	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	11	25	25	28	25	89	114	62.6	57.9	1.6	1.5	4	22	13	17	18	56	74	42.4	39.9		
a. Lymphoid	4	16	17	13	13	50	63	35.5	32.4	1.5	1.5	2	13	12	7	7	34	41	26.0	22.9		
b. Acute myeloid	4	5	5	7	5	21	26	14.9	13.4	1.8	1.4	1	4	0	7	6	12	18	8.5	8.9		
c. CMD	0	0	0	1	1	1	2	0.5	0.8	1.0	1.0	0	1	0	0	1	1	2	0.9	1.1		
d. MDS & other	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
e. Unspecified	3	4	3	7	6	17	23	11.8	11.4	1.9	1.8	1	4	1	3	4	9	13	7.0	7.0		
II LYMPHOMA & RELATED	0	7	6	9	17	22	39	14.7	17.8	1.8	2.3	0	2	2	8	5	12	17	7.6	7.8		
a. Hodgkin	0	3	0	3	2	6	8	4.2	4.0	2.0	2.0	0	0	1	2	1	3	4	1.8	1.8		
b. Non-Hodgkin except BL	0	2	4	5	9	11	20	6.9	8.7	1.4	1.8	0	1	1	6	3	8	11	4.9	4.9		
c. Burkitt (BL)	0	1	0	0	0	1	1	0.9	0.7	-	-	0	0	0	0	0	0	0	-	-		
d. Lymphoreticular	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
e. Unspecified	0	1	2	1	6	4	10	2.7	4.3	4.0	5.0	0	1	0	0	1	1	2	0.9	1.1		
III CNS NEOPLASMS	3	4	8	3	8	18	26	12.9	13.0	1.0	1.3	0	5	7	6	2	18	20	12.7	10.6		
a. Ependymoma	0	0	1	1	1	2	3	1.2	1.3	-	-	0	0	0	0	0	0	0	-	-		
b. Astrocytoma	0	1	1	0	5	2	7	1.5	3.1	0.4	1.2	0	3	0	2	1	5	6	3.9	3.4		
c. CNS embryonal	2	1	2	0	0	5	5	4.0	3.1	1.0	1.0	0	0	2	3	0	5	5	3.0	2.3		
d. Other gliomas	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
e. Other specified	0	0	0	0	1	0	1	-	0.4	0.0	0.5	0	0	1	1	0	2	2	1.2	0.9		
f. Unspecified CNS	1	2	4	2	1	9	10	6.3	5.2	1.5	1.4	0	2	4	0	1	6	7	4.6	3.9		
IV NEUROBLASTOMA	0	3	0	0	0	3	3	2.7	2.1	0.5	0.5	0	5	1	0	0	6	6	5.4	4.2		
a. (Ganglio)neuroblastoma	0	3	0	0	0	3	3	2.7	2.1	0.5	0.5	0	5	1	0	0	6	6	5.4	4.2		
b. Peripheral nervous	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
V RETINOBLASTOMA	1	2	1	0	0	4	4	3.3	2.6	2.0	2.0	0	1	1	0	0	2	2	1.6	1.3		
VI RENAL TUMOURS	0	3	0	0	0	3	3	2.7	2.1	0.5	0.5	0	5	1	0	0	6	6	5.4	4.2		
a. Nephroblastoma	0	3	0	0	0	3	3	2.7	2.1	0.8	0.8	0	4	0	0	0	4	4	3.8	2.9		
b. Renal carcinoma	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	1	0	0	1	1	0.7	0.5		
c. Unspecified	0	0	0	0	0	0	0	-	-	0.0	0.0	0	1	0	0	0	1	1	0.9	0.7		
VII HEPATIC TUMOURS	1	1	2	2	0	6	6	4.1	3.2	2.0	1.5	2	0	0	1	1	3	4	2.4	2.3		
a. Hepatoblastoma	1	1	0	0	0	2	2	1.8	1.4	2.0	2.0	1	0	0	0	0	1	1	0.9	0.7		
b. Hepatic carcinoma	0	0	1	1	0	2	2	1.2	0.9	-	2.0	0	0	0	0	1	0	1	-	0.4		
c. Unspecified	0	0	1	1	0	2	2	1.2	0.9	1.0	1.0	1	0	0	1	0	2	2	1.5	1.1		
VIII BONE TUMOURS	0	0	3	2	5	5	10	2.9	4.2	1.7	1.3	0	0	0	3	5	3	8	1.6	3.2		
a. Osteosarcoma	0	0	2	2	5	4	9	2.3	3.7	1.3	3.0	0	0	0	3	0	3	3	1.6	1.3		
b. Chondrosarcoma	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	2	0	2	-	0.8		
c. Ewing & related	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	2	0	2	-	0.8		
d. Other specified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
e. Unspecified	0	0	1	0	0	1	1	0.6	0.5	-	1.0	0	0	0	0	1	0	1	-	0.4		
IX SOFT TISSUE SARCOMA	1	1	2	2	5	6	11	4.1	5.1	1.0	0.8	0	3	1	2	7	6	13	4.6	6.3		
a. Rhabdomyosarcoma	1	0	1	2	2	4	6	2.6	2.7	2.0	2.0	0	2	0	0	1	2	3	1.9	1.9		
b. Fibrosarcoma	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	1	0	1	1	0.5	0.4		
c. Kaposi sarcoma	0	0	0	0	1	0	1	-	0.4	-	-	0	0	0	0	0	0	0	-	-		
d. Other specified	0	1	1	0	1	2	3	1.5	1.6	0.7	0.4	0	1	1	1	5	3	8	2.2	3.6		
e. Unspecified	0	0	0	0	1	0	1	-	0.4	-	1.0	0	0	0	0	1	0	1	-	0.4		
X GERM CELL TUMOURS	0	2	0	0	7	2	9	1.8	4.0	0.2	0.4	0	2	3	4	15	9	24	6.1	10.6		
a. CNS germ cell	0	0	0	0	2	0	2	-	0.8	0.0	2.0	0	0	1	0	0	1	1	0.7	0.5		
b. Other extragonadal	0	0	0	0	3	0	3	-	1.1	-	-	0	0	0	0	0	0	0	-	-		
c. Gonadal germ cell	0	2	0	0	1	2	3	1.8	1.8	0.3	0.3	0	2	2	3	5	7	12	4.8	5.7		
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	5	0	5	-	2.0		
e. Unspecified gonadal	0	0	0	0	1	0	1	-	0.4	0.0	0.2	0	0	0	1	5	1	6	0.5	2.4		
XI CARCINOMA & MELANOMA	1	0	3	9	11	13	24	7.4	9.9	1.3	0.6	0	1	1	8	27	10	37	5.9	15.2		
a. Adrenocortical	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
b. Thyroid	0	0	0	4	0	4	4	2.1	1.6	1.3	0.2	0	0	0	3	15	3	18	1.6	7.2		
c. Nasopharyngeal	0	0	0	1	3	1	4	0.5	1.5	1.0	1.0	0	0	0	1	3	1	4	0.5	1.6		
d. Melanoma	0	0	1	0	0	1	1	0.6	0.5	0.5	0.5	0	1	0	1	0	2	2	1.5	1.1		
e. Skin carcinoma	0	0	0	1	0	1	1	0.5	0.4	0.5	0.3	0	0	0	2	1	2	3	1.1	1.2		
f. Other & unspecified	1	0	2	3	8	6	14	3.7	5.9	3.0	1.4	0	0	1	1	8	2	10	1.2	4.1		
XII OTHER & UNSPECIFIED	0	5	2	4	8	11	19	7.8	9.1	2.2	1.5	0	4	0	1	8	5	13	4.3	6.5		
a. Other specified	0	0	1	0	0	1	1	0.6	0.5	-	-	0	0	0	0	0	0	0	-	-		
b. Other unspecified	0	5	1	4	8	10	18	7.2	8.6	2.0	1.4	0	4	0	1	8	5	13	4.3	6.5		
TOTAL	18	53	52	59	86	182	268	127.1	130.8	1.3	1.2	6	50	30	50	88	136	224	99.9	112.0		

Please consult the quality indicators for this registry

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	Age group	Males	Females
Person-years	0	74 437	70 929
	1-4	358 034	340 196
	5-9	504 448	480 043
	10-14	564 714	537 016
	15-19	599 352	572 060
Total	0-14	1 501 633	1 428 184
	0-19	2 100 985	2 000 244
Average annual population	0-14	71 506	68 009
	0-19	100 047	95 250

Please consult the quality indicators for this registry