

Chapter 4

CANCERS IN CHILDHOOD

The childhood cancers for the 0-14 age group have been reported for the period 2012-2014 in this chapter. The proportion of childhood cancers relative to cancers in all age groups varied between 0.7-4.4% (Table 4.1).

In boys, the relative proportion was lowest in Nagaland PBCR (0.7%) and highest in Delhi PBCR (5.4%). In girls, it varied from 0.5% in East Khasi Hills District of Meghalaya to 3.5% in Naharlagun Excluding Papumpare. Cancer incidence rates for childhood cancers are generally expressed per million children and not as per hundred thousand that is followed for cancers in all ages or in adults (IARC - 1996).

Figure 4.1 compares the AARpm of broad types of childhood cancers in boys and girls across the PBCRs. Delhi had the highest AARpm for all types of childhood cancers in both boys and girls at 235.3 and 152.3 respectively.

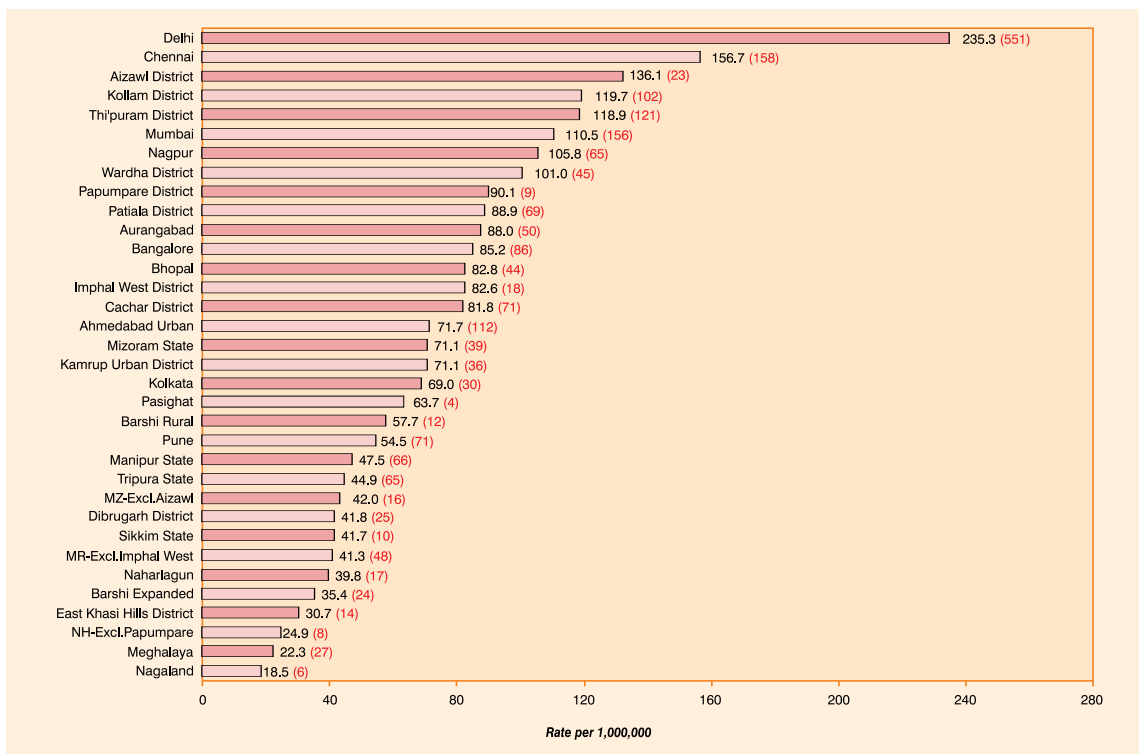
Figures 4.2 and 4.3 compare the AARpm of broad types of childhood cancers in boys and girls for leukaemias and lymphomas. Registries contributing greater than or equal to 5 cases under each type have been considered for representation in the graph.

Table 4.1: Number (#) and Relative Proportion (%) of Cancers in Childhood Relative to All Cancers (2012-2014)

Registry	Boys			Girls			Both Sexes		
	All Cancers	#	%	All Cancers	#	%	All Cancers	#	%
Bangalore (2012)	3824	86	2.2	4547	66	1.5	8371	152	1.8
Barshi Rural (2012-2014)	454	12	2.6	475	12	2.5	929	24	2.6
Barshi Expanded (2012)	901	24	2.7	1131	17	1.5	2032	41	2.0
Bhopal (2012-2013)	1718	44	2.6	1746	26	1.5	3464	70	2.0
Chennai (2012-2013)	5447	158	2.9	6212	82	1.3	11659	240	2.1
Delhi (2012)	10148	551	5.4	9598	309	3.2	19746	860	4.4
Mumbai (2012)	6598	156	2.4	6759	89	1.3	13357	245	1.8
Cachar District (2012-2014)	2666	71	2.7	2100	32	1.5	4766	103	2.2
Dibrugarh District (2012-2014)	1498	25	1.7	1345	9	0.7	2843	34	1.2
Kamrup Urban District (2012-2014)	3071	36	1.2	2392	20	0.8	5463	56	1.0
Manipur State (MR) (2012-2014)	2081	66	3.2	2542	55	2.2	4623	121	2.6
<i>Imphal West District (2012-2014)</i>	640	18	2.8	823	18	2.2	1463	36	2.5
<i>MR - Excl. Imphal West (2012-2014)</i>	1441	48	3.3	1719	37	2.2	3160	85	2.7
Mizoram State (MZ) (2012-2014)	2567	39	1.5	2089	29	1.4	4656	68	1.5
<i>Aizawl District (2012-2014)</i>	1275	23	1.8	1066	15	1.4	2341	38	1.6
<i>MZ - Excl. Aizawl (2012-2014)</i>	1292	16	1.2	1023	14	1.4	2315	30	1.3
Sikkim State (2012-2014)	707	10	1.4	678	13	1.9	1385	23	1.7
Ahmedabad Urban (2012-2013)	5477	112	2.0	4117	59	1.4	9594	171	1.7
Aurangabad (2012-2014)	1123	50	4.5	1118	26	2.3	2241	76	3.4
Kolkata (2012)	2777	30	1.1	2596	29	1.1	5373	59	1.1
Kollam District (2012-2014)	5534	102	1.8	5478	82	1.5	11012	184	1.7
Nagpur (2012-2013)	2236	65	2.9	2417	47	1.9	4653	112	2.4
Pune (2012-2013)	3417	71	2.1	3686	35	0.9	7103	106	1.5
Thi'puram District (2012-2014)	7638	121	1.6	8002	108	1.3	15640	229	1.5
Meghalaya (2012-2014)	2632	27	1.0	1616	14	0.9	4248	41	1.0
<i>East Khasi Hills District (2012-2014)</i>	1624	14	0.9	988	5	0.5	2612	19	0.7
Tripura State (2012-2014)	3628	65	1.8	2702	51	1.9	6330	116	1.8
Nagaland (2012-2014)	815	6	0.7	546	6	1.1	1361	12	0.9
Wardha District (2012-2014)	1306	45	3.4	1424	20	1.4	2730	65	2.4
Naharlagun (NH) (2012-2014)	735	17	2.3	704	17	2.4	1439	34	2.4
<i>Papumpare District (2012-2014)</i>	299	9	3.0	333	4	1.2	632	13	2.1
<i>NH - Excl. Papumpare (2012-2014)</i>	436	8	1.8	371	13	3.5	807	21	2.6
Pasighat (2012-2014)	175	4	2.3	159	2	1.3	334	6	1.8
Patiala District (2012-2014)	2853	69	2.4	3158	41	1.3	6011	110	1.8

Fig. 4.1: Age Adjusted Incidence Rates (AARpm) of Broad Types of Cancers in Childhood (0-14)
ALL TYPES (No. of cases given in parentheses)

Boys



Girls

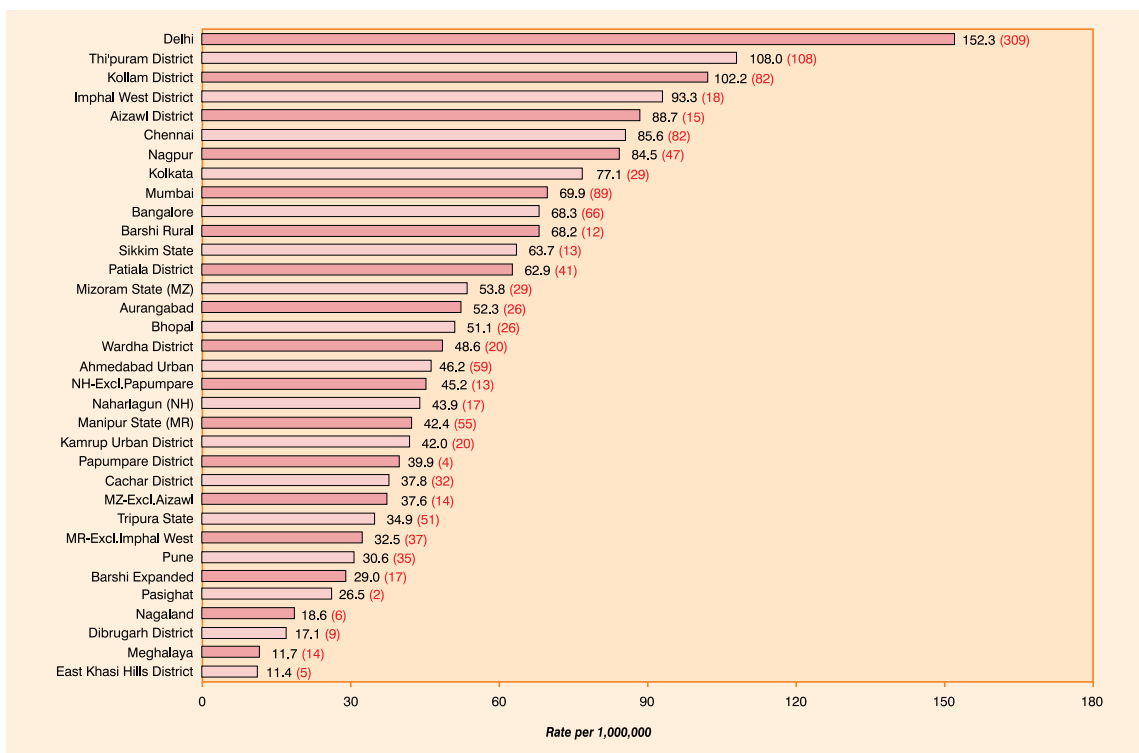
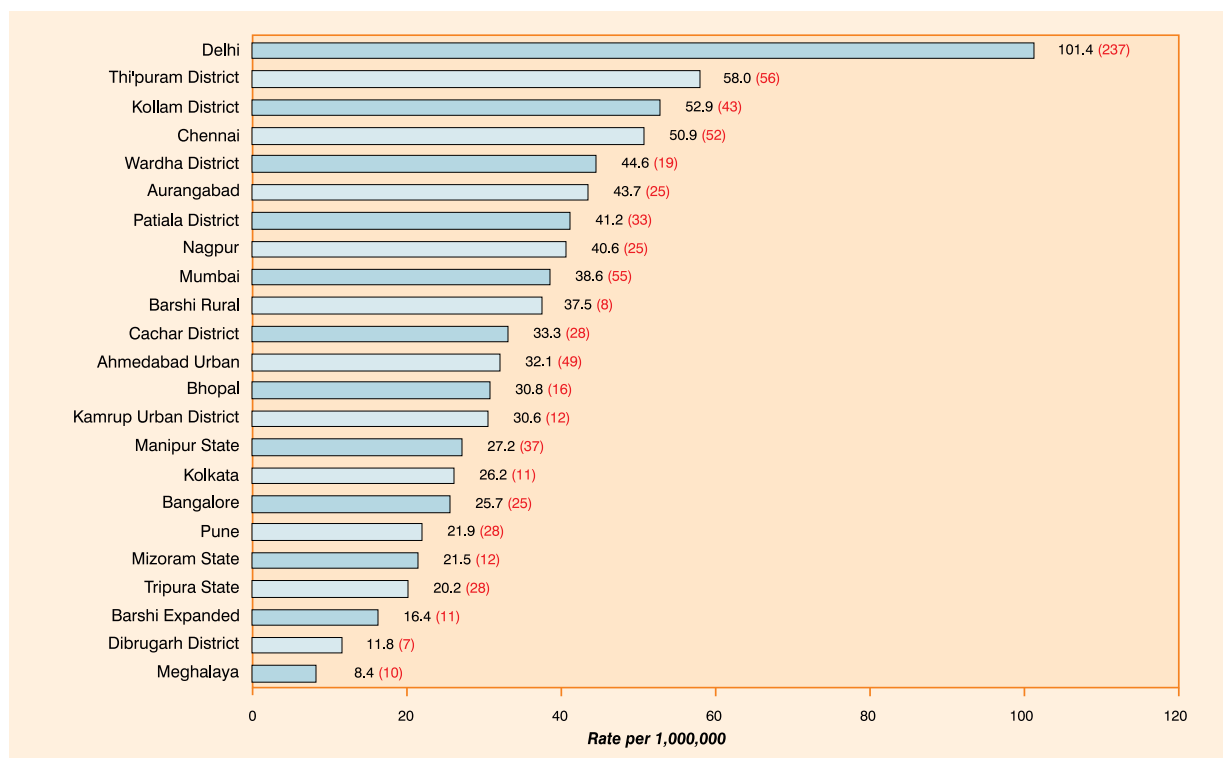


Fig. 4.2: Age Adjusted Incidence Rates (AARpm) of Broad Types of Cancers in Childhood (0-14)

LEUKAEMIAS (No. of cases given in parentheses)

Boys



Girls

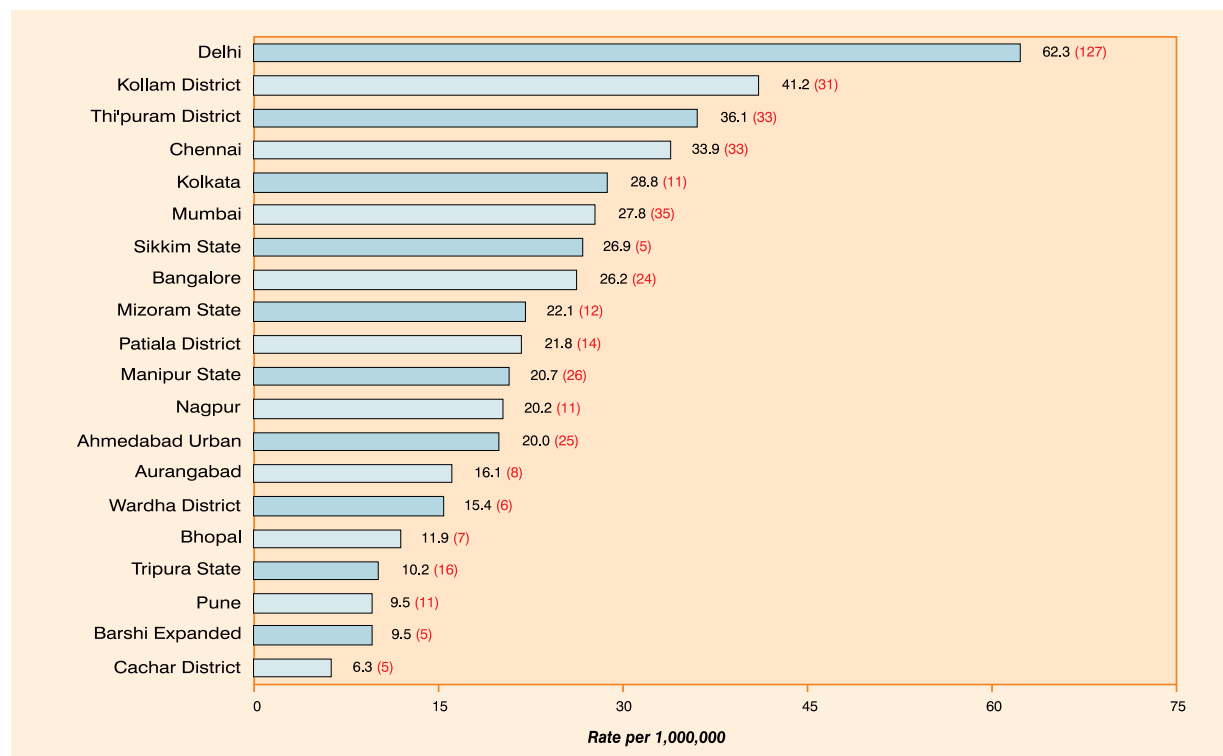
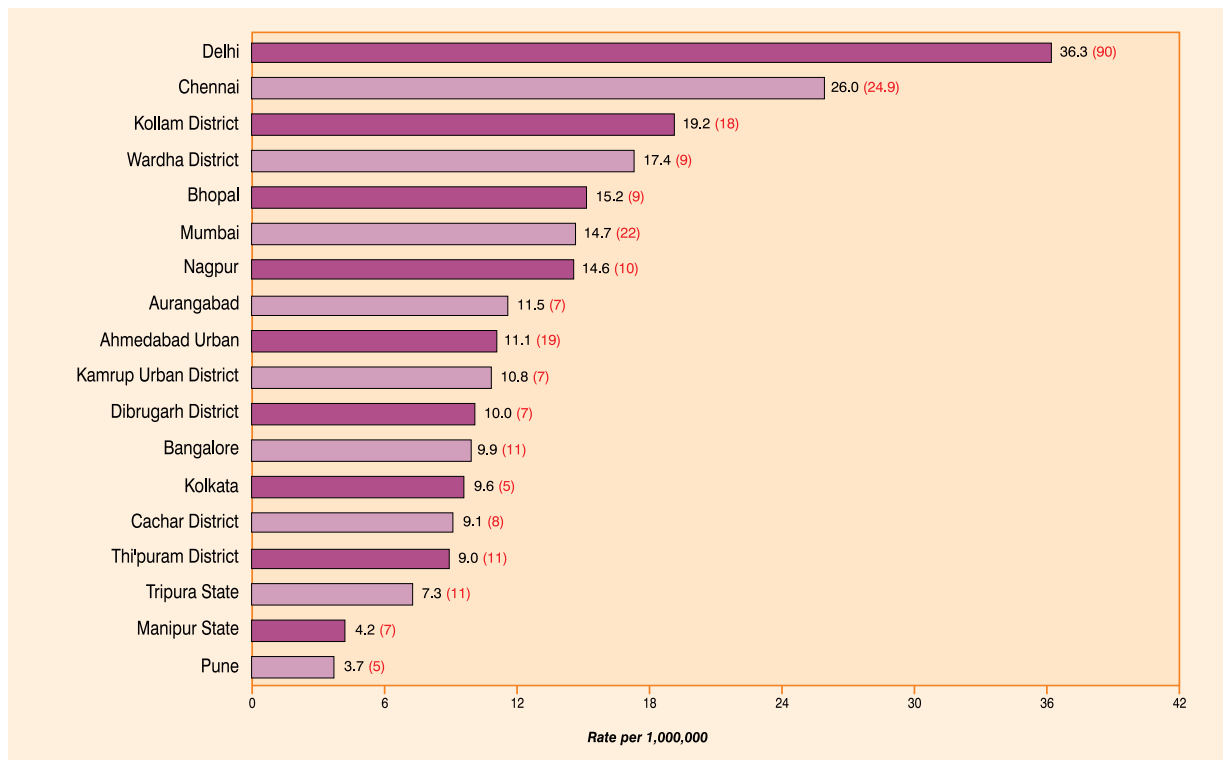
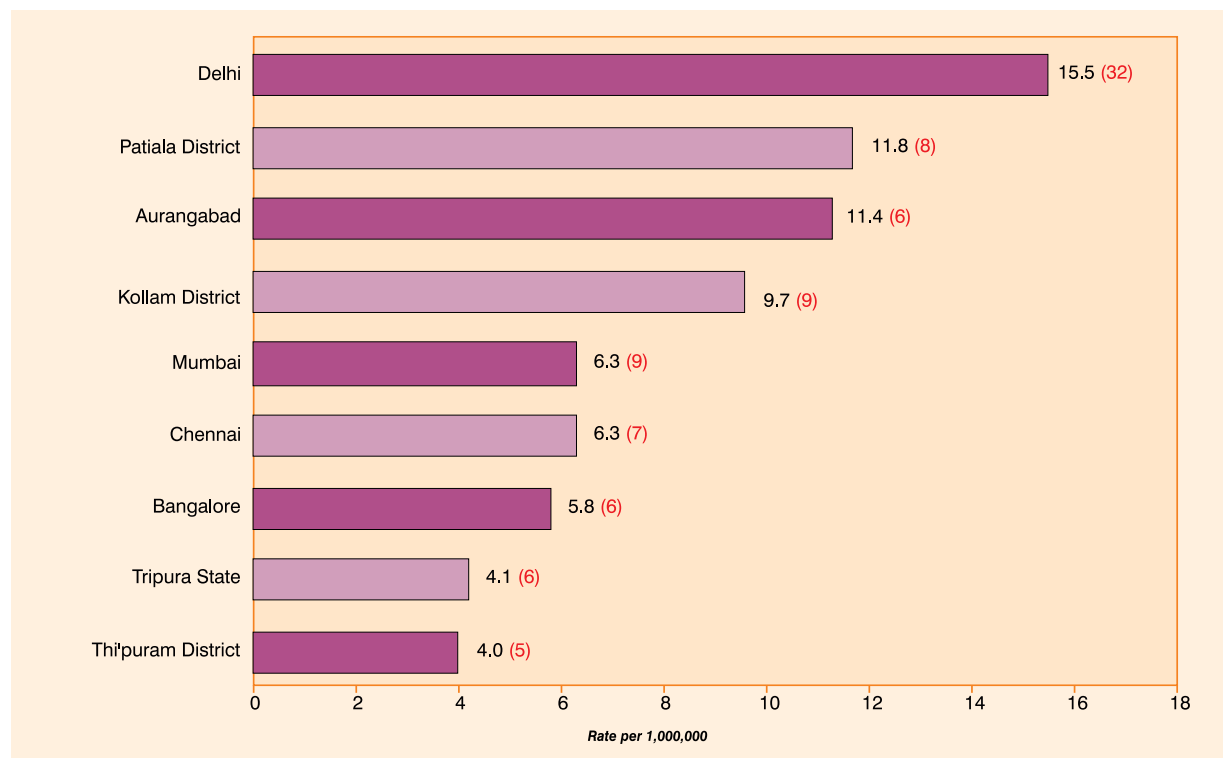


Fig. 4.3: Age Adjusted Incidence Rates (AARpm) of Broad Types of Cancers in Childhood (0-14)
LYMPHOMAS (No. of cases given in parentheses)

Boys



Girls



“I am among those who think that science has great beauty. A scientist in his laboratory is not only a technician: he is also a child placed before natural phenomena which impress him like a fairy tale.”

Marie Curie (1867-1934)

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“In science the credit goes to the man who convinces the world, not the man to whom the idea first occurs.”

*Sir Francis Darwin (1848-1925),
Eugenics Review, April 1914*

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“The practice of medicine is an art, not a trade; a calling, not a business; a calling in which your heart will be exercised equally with your head.”

William Osler

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“We must not forget that when radium was discovered no one knew that it would prove useful in hospitals. The work was one of pure science. And this is a proof that scientific work must not be considered from the point of view of the direct usefulness of it. It must be done for itself, for the beauty of science, and then there is always the chance that a scientific discovery may become like the radium a benefit for humanity.”

*Marie Curie (1867-1934),
Lecture at Vassar College, May 14, 1921*

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“That which today calls itself science gives us more and more information, and indigestible glut of information, and less and less understanding.”

Edward Abbey