

# Cancer Cervix Uteri

### Cancer Cervix Uteri (ICD-10: C53)

Table 8.1 Number of cases (n) registered for Cancer Cervix Uteri and its RelativeProportion to All Sites of Cancer (%), Crude (CR), Age Adjusted (AAR) and Truncated (TR)Incidence Rates per 100,000 population and its Rank in 28 PBCRs under NCRP

SI No	Registry	n	%	CR	AAR	TR	Rank				
		NO	RTH								
1	Delhi	2913	10.0	12.0	14.0	32.8	11				
2	Patiala district	670	11.0	14.1	13.7	33.4	12				
	SOUTH										
3	Hyderabad district	563	8.7	9.6	11.7	27.2	16				
4	Kollam district	630	6.4	9.0	6.6	13.8	31				
5	Thi'puram district	793	5.5	9.1	6.8	14.2	29				
6	Bangalore	1903	12.0	15.0	17.7	39.5	5				
7	Chennai	1865	11.1	15.7	14.8	32.4	8				
		EA	AST								
8	Kolkata	902	9.9	10.4	8.7	20.6	25				
		W	EST								
9	Ahmedabad urban	1023	9.3	6.9	6.9	16.7	28				
10	Aurangabad	375	18.7	11.8	14.2	31.3	9				
11	Osmanabad & Beed	1167	26.1	13.8	13.1	31.1	14				
12	Barshi rural	206	25.3	17.0	15.3	34.7	6				
13	Mumbai	1985	7.2	8.5	8.3	18.3	26				
14	Pune	1146	10.6	8.8	10.0	22.3	18				
		CEN	ITRAL								
15	Wardha district	299	11.8	9.3	8.2	18.8	27				
16	Bhopal	424	11.8	10.7	12.8	29.1	15				
17	Nagpur	765	12.7	11.8	11.3	27.0	17				
		NORT	H EAST								
18	Manipur state	427	9.5	5.5	6.7	15.0	30				
	Imphal West district	127	8.5	9.1	9.4	20.7	22				
19	Mizoram state	577	15.4	19.7	23.2	62.8	3				
	Aizawl district	281	14.8	25.8	27.4	78.5	2				
20	Sikkim state	116	10.3	7.7	9.9	25.3	20				
21	Tripura state	809	16.5	8.6	9.5	23.7	21				
22	West Arunachal	136	11.6	6.5	10.0	26.2	19				
	Papumpare district	67	12.7	13.3	27.7	66.0	1				
23	Meghalaya	283	10.0	5.6	8.8	21.8	24				
	East Khasi Hills district	150	8.7	6.7	9.4	22.4	23				
24	Nagaland	163	16.4	9.3	13.3	35.2	13				
25	Pasighat	56	18.5	16.3	20.3	56.2	4				
26	Cachar district	607	15.4	13.4	15.3	41.0	7				
27	Dibrugarh district	139	6.2	4.1	4.8	12.1	32				
28	Kamrup urban	412	8.6	13.0	14.2	32.2	10				

Total number of cases (N) registered and reporting year of data for all sites is mentioned in Table 1.2

Cancer cervix uteri is one of the leading sites of cancer. Papumpare district (27.7 per 100,000) in West Arunachal had the highest incidence of cervical cancer.

75+	32.0	33.1	25.6	30.0	34.3	62.4	46.9	21.3	16.0	34.9	28.7	55.8	28.1	35.7	31.3	32.7	24.8	17.7	28.5	21.7	20.4	12.9	14.0	0.0	0.0	16.6	28.1	10.5	50.0	12.5	9.1	46.9
70-74	51.5	35.1	55.8	30.1	33.2	77.3	67.8	31.7	25.2	51.4	41.4	54.1	37.3	39.0	23.3	80.1	32.1	31.9	47.5	34.0	29.7	27.4	25.0	40.9	205.9	12.7	16.7	16.0	25.5	33.1	12.0	48.4
65-69	57.1	53.0	43.8	37.0	31.9	76.8	76.7	35.0	25.2	77.2	52.2	73.9	38.0	49.1	36.9	39.8	44.2	27.2	38.3	38.3	22.5	36.4	31.7	11.1	73.5	28.5	34.8	37.3	16.9	33.3	13.6	65.4
60-64	62.3	48.8	51.1	28.4	32.7	66.6	62.4	29.0	25.4	51.8	56.4	70.2	28.8	46.1	27.8	45.7	47.5	26.4	43.7	51.0	77.4	47.9	39.2	36.8	109.2	21.8	18.3	39.1	45.6	30.7	20.8	56.7
55-59	45.4	47.8	44.7	24.1	24.4	60.8	54.6	26.8	20.6	47.3	41.1	51.6	27.5	29.4	24.3	39.8	34.9	23.1	26.9	64.8	68.4	23.1	33.1	32.6	109.4	30.9	30.9	35.4	70.1	43.9	13.8	49.9
50-54	38.6	47.3	35.2	18.1	17.3	54.2	39.2	27.5	20.5	28.9	42.7	37.9	24.9	27.3	24.2	47.0	30.7	17.7	24.6	74.0	101.6	32.8	27.4	39.1	87.7	26.5	35.9	43.9	45.5	45.5	16.8	47.6
up 45-49	32.4	32.2	20.3	12.0	12.6	39.5	31.5	23.8	16.2	33.6	29.1	38.3	18.5	23.9	24.2	25.3	26.8	13.0	16.7	58.5	73.5	31.0	27.3	21.9	55.5	28.4	29.2	47.9	88.0	49.1	14.3	26.8
Year Age Group 35-39 40-44 45-	21.9	23.8	15.8	6.3	7.0	25.0	16.7	16.0	15.1	24.5	19.7	21.0	12.8	13.5	13.0	21.4	20.5	10.0	14.5	82.5	102.3	13.3	15.2	21.2	44.3	18.5	18.0	30.9	67.9	41.6	9.9	21.8
	11.3	13.0	11.2	3.0	1.3	9.3	8.4	6.3	7.0	13.3	11.5	7.1	5.0	4.8	5.0	7.2	11.8	6.8	7.9	44.4	48.0	11.9	9.2	13.5	22.4	8.5	6.0	17.1	19.4	33.5	1.1	7.2
Five 30-34	4.4	2.9	3.7	0.4	0.8	4.2	2.3	3.4	2.5	4.1	4.5	2.4	2.4	1.0	1.6	3.3	4.3	3.4	4.9	17.5	18.6	1.5	4.4	8.5	10.2	6.7	6.1	7.2	11.2	9.1	2.9	3.6
25-29	1.2	2.2	1.5	0.0	0.1	0.9	0.4	0.5	0.6	1.9	1.8	0.0	0.4	0.6	0.7	1.2	1.6	0.3	0.0	3.2	2.7	1.2	1.9	2.1	2.0	1.8	1.0	3.3	0.0	1.5	0.3	1.5
20-24	0.5	0.2	0.1	0.2	0.0	0.6	0.0	0.3	0.1	0.8	0.4	0.0	0.2	0.1	0.3	0.5	0.9	0.3	0.8	1.7	0.9	0.0	0.1	0.5	1.6	0.4	0.8	1.0	2.8	0.7	0.0	0.6
15-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-14	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Registry	Delhi	Patiala district	Hyderabad district	Kollam district	Thi'puram district	Bangalore	Chennai	Kolkata	Ahmedabad urban	Aurangabad	Osamanabad & Beed	Barshi rural	Mumbai	Pune	Wardha district	Bhopal	Nagpur	Manipur state	Imphal West district	Mizoram state	Aizawl district	Sikkim state	Tripura state	West Arunachal	ST Papumpare district	Meghalaya	East Khasi Hills district	Nagaland	Pasighat	Cachar district	Dibrugarh district	Kamrup urban
Region					SOUTH			EAST								CENTRAL									NORTH EAST							

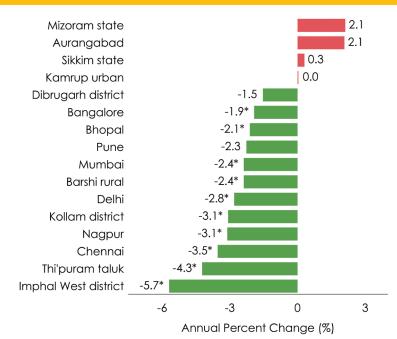
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8.1 Age Specific Incidence Rates per 100,000 in 28 PBCRs under NCRP - Cancer Cervix Uteri

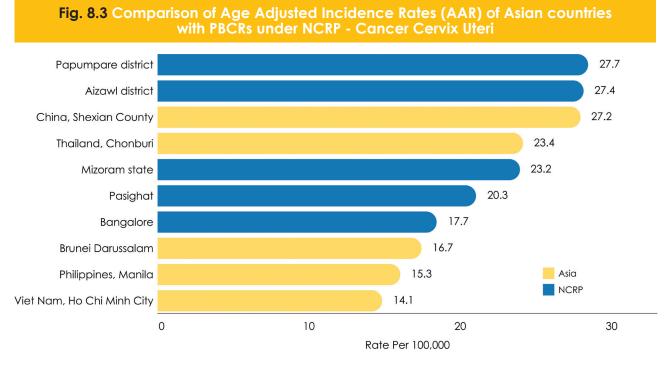
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#### Fig. 8.2 Annual Percent Change (APC) in Age Adjusted Incidence Rates (AAR) over the Time Period - Cancer Cervix Uteri



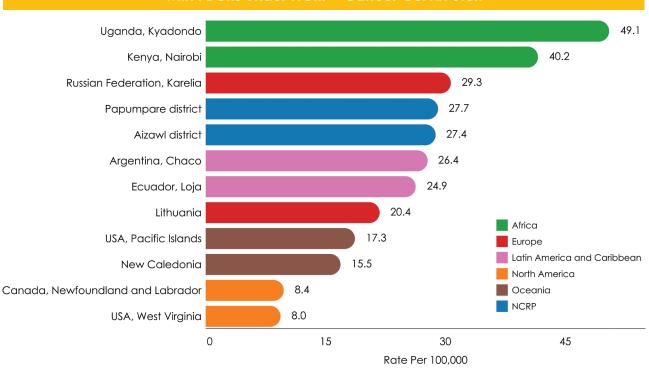
Increase in APC, Decrease in APC ; \*Significant increase or decrease in APC at 95% confidence level

There was a significant decrease in the incidence rate of cervical cancer in 10 PBCRs except in Dibrugarh district and Pune where there was a decline but not significant.



Papumpare district, India has the highest incidence rate of cervical cancer (27.7 per 100,000) in Asia.

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#### Fig. 8.4 Comparison of Age Adjusted Incidence Rates (AAR) of Non-Asian countries with PBCRs under NCRP - Cancer Cervix Uteri

Kyadondo in Uganda had the highest incidence rate of cervical cancer (49.1 per 100,000) in the world.

Table 8.2 Number (r	and Relative Proportion (%) according to						
Clinical Extent of Disease - Cancer Cervix Uteri							

<b>Clinical Extent of Disease</b>	n	%
Localised only	7738	32.8
Locoregional	14162	60.0
Distant Metastasis	1196	5.1
Unknown	523	2.2
Total	23619	100.0

In 60.0% of the cancer cervix uteri patients, the clinical extent of disease was locoregional. It was localized in 32.8% of the cases. The distant metastasis of cancer cervix uteri was observed only in 5.1% of the patients.

#### Table 8.3 Number (n) and Relative Proportion (%) of Types of Treatment according to Clinical Extent of Disease - Cancer Cervix Uteri

	Clinical Extent of Disease												
Treatment	Localis	ed only	Locore	gional	Distant A	<b>Netastasis</b>	Unknown						
	n	%	n	%	n	%	n	%					
Surgery	592	7.7	318	2.3	10	0.8	41	7.9					
Radiotherapy	1935	25.1	4356	30.8	442	37.1	172	33.1					
Radiotherapy + Chemotherapy	3842	49.8	8005	56.6	556	46.7	199	38.3					
Systemic Therapy	340	4.4	689	4.9	133	11.2	57	11.0					
Multi-modality*	995	12.9	682	4.8	42	3.5	46	8.9					
Palliative Care	18	0.2	83	0.6	7	0.6	4	0.8					
Total	7722	100.0	14133	100.0	1190	100.0	519	100.0					

\*Multi-modality includes the combination of Surgery and/or Radiotherapy and/or Systemic Therapy

Higher proportion of patients with cancer cervix uteri underwent Radiotherapy plus Chemotherapy. Radiotherapy was the second most preferred treatment for cervical cancer (localized: 25.1%, locoregional: 30.8%, distant metastasis: 37.1% and unknown: 33.1%). Around 7.7% patients with clinically localized cancer cervix uteri were treated with surgery.

## Table 8.4 Number (n) and Relative Proportion (%) byEducational Status - Cancer Cervix Uteri

Educational Status	n	%
Illiterate	9207	38.8
Literate	2337	9.8
Primary	3012	12.7
Secondary	3549	15.0
Higher Education	479	2.0
Unknown	5153	21.7
Total	23737	100.0

Educational status of Cancer cervix uteri patients indicated that 38.8% of the women were illiterate and only 9.8% were literate. 12.7% and 15.0% had primary and secondary school level of education, respectively.

## Table 8.5 Number (n) and Relative Proportion (%) byBroad Histological Classification - Cancer Cervix Uteri

Broad Histological Classification	n	%
Epithelial Tumours	23373	99.5
Melanocytic tumours	16	
Mesenchymal tumours and tumour-like lesions	8	
Mixed epithelial and mesenchymal tumours	22	0.5
Malignant Lymphoma	3	
Others	ر 71	
All Microscopic	23493	100.0

99.5% of cancer cervix uteri were histologically diagnosed as epithelial tumours.