

# HOSPITAL BASED CANCER REGISTRY

## Cachar Cancer Hospital & Research Centre, Silchar

**Dr R. Ravi Kannan**, Principal Investigator  
**Dr Ritesh Tapkire**, Co-Investigator

Cachar Cancer Hospital & Research Centre (CCHRC) has been established in 1996 by the Cachar Cancer Hospital Society, a non profit organisation in Silchar in southern Assam. It is a 100-bedded comprehensive cancer centre serving patients predominantly from the Barak valley and Dima Hasao districts of Assam and the neighbouring districts of Tripura, Manipur and Meghalaya. About 3000 new (1700 cancers) and 15,000 follow-up patients are seen annually.

A department of Epidemiology & Tumour Registry has been started in 2008. The registry has been contributing data to the Cancer Atlas and Patterns of Care and Survival Studies for Head & Neck, Breast and Cervical cancers from the same year. The registry staff underwent a structured in-house training following which they were trained at Cancer Institute (W.I.A), Chennai, National Cancer Registry Programme (NCRP) under Indian Council of Medical Research (ICMR), Bangalore and Dr. B. Borooah Cancer Institute (BBCI), Guwahati. The Department of Information Technology (IT) in the hospital developed a hospital management system in-house. During follow-up it was found that a large number of patients gave wrong addresses or contact numbers. To address these issues, the department started collecting multiple (six) addresses, verification of contact numbers and making certain changes in the patient information sheet including road directions (and landmarks near) to patient's homes. In the year 2011, NCRP (ICMR) supported the registry with HBCR-DM software. The hospital registry has developed an aggressive follow-up programme that includes phone calls and home visits by field investigators. This Institute has registered a total number of 5,025 new and old cancer patients for the calendar year 2012-2014. Follow-up information is available for over 80% of patients treated at the hospital.

Currently registry staff are also engaged in preparing a report of all patients treated in the hospital from 2008 – 2010 with a 5 year follow-up and survival information.

The registry has applied to the NCRP for support to commence a Population Based Cancer Registry (PBCR) for the districts of Karimganj, Hailakandi and Dima Hasao.

### Staff of Registry

Research Officer cum Epidemiologist :	<b>Mr Amit Das</b>
Research Officer (Non-medical) :	<b>Ms Gayatree Roy</b>
Field Investigators :	<b>Mr Sagardeep Chakraborty</b> <b>Mr Premjit Kurmi</b>
Social Investigators :	<b>Ms Anamika Chakraborty</b> <b>Mr Ajitesh Deb</b> <b>Ms Suma Biswas</b> <b>Mr Bijoy Pow Rongmei</b> <b>Ms Rupashree Mazumder</b>
Data Entry Operator :	<b>Mr Sanjib Sutradhar</b>
Registry General Duty Attendant :	<b>Mr Subash Kurmi</b> <b>Mr Sandeep Kr. Dhar</b>

Table D.1 gives the total number of new cancers registered in hospital during the period of three years from 1<sup>st</sup> January 2012 to 31<sup>st</sup> December 2014. Accordingly, there were 4831 new cancers registered (2854 males and 1977 females).

Table D.2 indicates the number and proportion of specific sites of cancer associated with use of tobacco relative to all cancers.

The basis of diagnosis of cancers registered is shown in Table D.3. The proportion of microscopic confirmation was around 86% in males and 82% in females.

Table D.4 shows the details of microscopically verified cancers. The proportion of patients who were diagnosed by primary histology was around 64% in both sexes.

Table D.5 gives the number and relative proportion of cancer patients in diverse clinical extent of disease before treatment at the time of registering at the RI.

Table D.6 gives the number and relative proportion of cancer patients according to different treatment modality.

**Table D.1: Number (#) and Proportion (%) according to Sex and Sex Ratio Percent**

Males		Females		Sex Ratio	Total Cases
#	%	#	%		
2854	59.1	1977	40.9	144	4831

**Table D.2: Number (#) and Proportion (%) of Tobacco Related Cancers (TRC) Relative to All Sites of Cancer**

Sites of Cancer	Males		Females	
	#	%	#	%
Lip	14	0.5	5	0.3
Tongue	156	5.5	45	2.3
Mouth	218	7.6	159	8.0
Oropharynx	45	1.6	14	0.7
Hypopharynx	283	9.9	48	2.4
Pharynx	30	1.1	-	-
Oesophagus	316	11.1	147	7.4
Larynx	92	3.2	22	1.1
Lung	431	15.1	117	5.9
Urinary Bladder	51	1.8	17	0.9
<b>TRC</b>	<b>1636</b>	<b>57.3</b>	<b>574</b>	<b>29.0</b>
<b>All Sites</b>	<b>2854</b>	<b>100.0</b>	<b>1977</b>	<b>100.0</b>

**Table D.3: Number (#) and Relative Proportion (%) of Cancers Based on Different Methods of Diagnosis**

Method of Diagnosis	Males		Females	
	#	%	#	%
Microscopic	2463	86.3	1629	82.4
All Imaging Techniques	45	1.6	44	2.2
Clinical	286	10.0	275	13.9
Others	60	2.1	29	1.5
Unknown	-	-	-	-
<b>Total</b>	<b>2854</b>	<b>100.0</b>	<b>1977</b>	<b>100.0</b>

**Table D.4: Number (#) and Relative Proportion (%) of Cancers based on Different Types of Microscopic Diagnosis**

Types of Microscopic Diagnosis	Males		Females	
	#	%	#	%
Primary Histology	1576	64.0	1039	63.8
Secondary Histology	10	0.4	14	0.9
Primary Cytology	444	18.0	303	18.6
Secondary Cytology	375	15.2	244	15.0
Blood Film	10	0.4	3	0.2
Bone Marrow	48	1.9	26	1.6
<b>All Microscopic</b>	<b>2463</b>	<b>100.0</b>	<b>1629</b>	<b>100.0</b>

**Table D.5: Number (#) and Relative Proportion (%) of Cancer Patients according to Clinical Extent of Disease (Excluding Patients Previously Treated)**

Clinical Extent	Males		Females	
	#	%	#	%
Localised (L)	1357	53.2	895	52.4
Regional (R)	702	27.5	451	26.4
L+R	2059	80.7	1346	78.8
Distant	238	9.3	219	12.8
Others	249	9.8	141	8.3
Unknown	5	0.2	3	0.2
<b>All Stages</b>	<b>2551</b>	<b>100.0</b>	<b>1709</b>	<b>100.0</b>

**Table D.6: Number (#) and Relative Proportion (%) of Cancer Patients according to Any Specific Treatment Relative to All Treatment Procedures (Treatment Only at RI)**

Treatments	Males		Females	
	#	%	#	%
Any Surgery	280	24.6	239	30.0
Any Radiotherapy	417	36.7	262	32.9
Any Chemotherapy	438	38.5	295	37.0
Any Hormone Therapy	2	0.2	1	0.1
Any Others	-	-	-	-
Unknown	-	-	-	-
<b>Total</b>	<b>1137</b>	<b>100.0</b>	<b>797</b>	<b>100.0</b>