POPULATION BASED CANCER REGISTRY, MANIPUR STATE
Regional Institute of Medical Sciences, Imphal

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The state of Manipur is situated in the north eastern part of India with a total area of 22,327 sq. km. It has a central valley surrounded by nine hills at an altitude of 790 metres above sea level. It extends between 23.50 and 25.41 degree latitudes north and between 92.59 and 94.45 degree longitudes east.

The Population Based Cancer Registry (PBCR), RIMS Imphal was established in the Department of Pathology, Regional Institute of Medical Sciences (RIMS) in the year 2003 under National Cancer Registry Programme (NCRP) of the Indian Council of Medical Research (ICMR), New Delhi.

PBCR covers the whole state of Manipur having a population of 28,55,794 (2011 census). The population covered are 29% urban and 71% rural. The overall density of population of the state is 128 persons per sq. km. Majority of the population are Hindus with minor contribution from Christians followed by Muslims, Sikhs and Jains. There are 32 ethnic groups.

The information of those patients who have been staying within the registry area for at least a year prior to the date of first diagnosis and confirmed microscopically, clinically or radiologically for cancer recorded. We register all malignant neoplasm with morphological and behaviour code of '3' and '6' as defined by the 3rd Edition of ICD-O.

Till date cancer is not a notifiable disease in the state of Manipur, so the method of data collection is entirely active. The direct interview of the patient or their attendants is possible in more than 80% of the cases who come for treatment at our institute, the only centre with cancer treatment facility. Therefore the chance of missing a case is less and the time taken for completion of core proforma is short. Sincere efforts are also being made to make it notifiable in the near future. Besides this our social investigators regularly visit other departments/sections of the base institute. They also collect data on regular basis from more than 25 major sources within the registry area, both private and government.

In order to handle these data smoothly, at present, we are using a very user friendly software called 'PBCRDM 2.1 version' indigenously developed by the co-ordinating unit of NCRP, Bangalore which enable us to perform various checks on quality, duplicate, range and consistency etc. with much flexibility. This has really enhanced the quality and reliability of the data. Various types of reports can also be generated instantly.

As such we are not running any population based programme on screening for specific cancer sites. However, we do conduct free cancer screening camps annually for breast and cervix uteri targeting the

women population ranging from age 35 to 60 years. The registry prepares annual, biennial and five yearly consolidated reports regularly which are being used by the state for cancer control programmes and by the research scholars from various institutes for studies on cancer epidemiology.

Registry Staff: PBCR, Imphal

Dr H. Satyajyoti Singh	:	Medical Research Officer
Dr O. Bijaya Devi	:	Statistician
Mr R.K. Budhibanta	:	Computer Programmer
Mr K.H. Nabachandra Singh	:	Social Investigator
Mr L. Bhopendro Mangang	:	Social Investigator
Mr Surjit Meitei	:	Social Investigator
Mr Reemo Yurembam	:	Data Entry Operator

Main Sources of Registration of Incident Cases of Cancer: 2012-2014
Manipur State

Name of the Institution	Number	%
Regional Institute of Medical Sciences	2959	64.0
Babina Diagnostic Centre	1258	27.2
Cancer Atlas	167	3.6
Shija Hospitals and Research Institute	96	2.1
Dr B. Borooah Cancer Institute, Guwahati	82	1.8
Imphal Hospital and Research Centre	52	1.1
Others	9	0.2
Total	**4623**	**100.0**

1. *Institutions listed have registered at least one percent of all cases in the registry for Selected Year.*
2. *The numbers and proportion listed are the minimum number of cases. Institutions could have registered/ reported more cases, since duplicate registrations and non-resident/registry cases are not included.*