

POPULATION BASED CANCER REGISTRY, MIZORAM STATE

Civil Hospital, Aizawl

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Population Based Cancer Registry (PBCR), Aizawl covers the entire state of Mizoram, a small state situated in the North-eastern part of India, between Myanmar and Bangladesh. As per 2011 census, Mizoram has an area of 21,087 sq. km, a density of 52 per sq. km, a population of 10,97,206, a sex ratio of 976 females/1000 males and a literacy rate of 91.33%. Population consists mostly of Mizos and majority (87%) are Christians. Global and national tobacco surveys have consistently found a very high smoke and smokeless tobacco usage among both males and females.

Population Based Cancer Registry (PBCR), Aizawl was established in 2003 jointly by National Cancer Registry Programme (NCRP) of the Indian Council of Medical Research (ICMR) and Department of Health & Family Welfare, Mizoram vide Government of Mizoram Notification No J.11011/8/2002-HFW dated 6th March 2003, in the Department of Pathology, Civil Hospital, Aizawl. Civil Hospital, Aizawl is the main state referral hospital with facilities for cancer detection, diagnosis and comprehensive treatment. Pathologists, Oncologists and Onco-Surgeons are working part-time as Principal Investigator or Co-Investigators in the PBCR. There are 7 full-time staff in the PBCR funded by NCRP, ICMR. Oncology Department of Civil Hospital, Aizawl is now upgraded to Mizoram State Cancer Institute (MSCI) at Zemabawk, where radiotherapy department is located. It is being upgraded to a 100 bedded Tertiary Care Cancer Centre (TCCC) through the NPCDCS Programme of NHM, Govt of India.

Collection of data started from 1st January 2003. Data collection is active. Registry staff regularly visit about 40 sources of registration which consist of hospitals, laboratories, diagnostic centres and registry of births and deaths. Some patients go for treatment to premier institutes from where data are also obtained. Mortality data collection is through 700 odd Registrars of Births & Deaths spread throughout the state. The PBCR registers all malignant neoplasms, with the morphology behaviour code of '3' and '6' as defined by the International Classification of Diseases – Oncology (ICD-O).

All cancer cases are coded for primary site and morphology as per International Classification of Diseases – Oncology, 3rd Edition, (WHO ICD-O 3) and for primary site by ICD-10.

Checks for duplicates and quality are performed at the registry. NCRP repeats the checks on the data and performs matching too. For the sake of comparison, data are analysed separately for (i) the whole

Mizoram State, (ii) Aizawl District alone and (iii) Rest of the Districts (Mizoram excluding Aizawl District). On account of the consistently high incidence of some sites of cancer like, stomach, lungs and oesophagus, as compared to other Indian registries, a number of researches are being undertaken, some of which have also been published. One import achievement from such publication is the initiation of Tobacco Control programmes in the state.

Registry Staff: PBCR, Aizawl

Medical Research Officer	:	Dr Freddie Lalhmangaiha Sailo, MBBS
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Statistician	:	Mrs Annie Hmingthanmawii, MA
Social Investigators	:	Ms Zothanpuii, MSc Mrs C. Zothantluangi, MA Ms K. Lalruatfeli, MA
Data Entry Operator	:	Mr Lalngaihawma Khiangte, MA

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

Name of the Institution	Number	%
Civil Hospital, Aizawl	1434	30.8
Genesis Lab, Aizawl	806	17.3
Life Line Lab, Aizawl	492	10.6
RCC, Zemabawk, Aizawl	427	9.2
DCO	308	6.6
Presbyterian Hospital, Aizawl	230	4.9
Trinity Diagnostic Centre, Aizawl	202	4.3
Grace Nursing Home, Aizawl	115	2.5
HBCRs	106	2.3
Nazareth Hospital, Aizawl	72	1.5
Others	464	10.0
Total	4656	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.*