

HOSPITAL BASED CANCER REGISTRY

Tata Memorial Hospital, Mumbai

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Tata Memorial Hospital

The Tata Memorial Centre (TMC) comprising the Tata Memorial Hospital, the Advanced Centre for Treatment, Research and Education in Cancer (ACTREC) and the Centre for Cancer Epidemiology (CCE) engaged in research, education and comprehensive care of cancer patients is a grant-in-aid institution and it is under the administrative control of the *Department of Atomic Energy, Government of India*. Tata Memorial Hospital, established in 1941, has completed 75 years in February 2016. The ACTREC situated at Kharghar, Navi Mumbai consists of two wings – the Cancer Research Institute (CRI) relocated from Parel and the Clinical Research Centre (CRC) which undertakes basic and clinical research using GCP guidelines. The Hospital, located in Parel, Mumbai, is a comprehensive cancer centre for diagnosis, treatment, education and is also a research institution with state-of-art technology in all areas of cancer management. The hospital has 578 beds, 25 operation theatres (major and minor) and intensive care units. The hospital is a recognized centre for postgraduate teaching in areas such as Surgery, Radiation Therapy, Radio-Diagnosis, Pathology, Biochemistry, Radiation Physics, Cytology etc. On an average, over 3000 patients visit the centre every day for availing various services. The Centre for Cancer Epidemiology was set up with the objective to develop nationally and internationally recognized and well funded multidisciplinary research programmes in Epidemiology with emphasis on assessing cancer burden, assessing prevalence of risk factors, identifying risk factors related to life style and genetics and to study risk factors for disease progression.

Patients who seek all facilities such as diagnosis, treatment and allied facilities are registered as routine case file registrations. Patients may be registered for opinion/diagnosis under either Preventive Oncology (PO) or as Referral cases (RF). Some of the RF and PO registered patients eventually register as a regular case if they are diagnosed as cancer. The Hospital Cancer Registry includes patients registered for comprehensive care where all necessary information like, date of diagnosis, method of diagnosis, clinical extent of disease, primary treatment and continuous follow-up are available and also those who have been diagnosed as cancer but not treated at TMH.

The Cancer Registry is currently using the International Classification of Diseases 9th version and in this year all cancer cases are coded using both ICD-9 and ICD-10 and tables are generated using both types of codes. For histological classification, the data are coded as per ICD-O-3 version.

Data Validation

TMH registry is operational since 1984. From the year 2000, TMH discontinued manual filling of HBCR forms and started directly entering onto the computer. TMH implemented the Hospital Information System (HIS) in phases from 1997. From January, 2013, TMH has implemented paperless operations in totality. All diagnostic, investigation, registration, imaging, clinical notes are available on the HIS. Since

this was implemented in phase-wise manner, we could not extract the complete-EMR; but as of now, it is possible and also web-based registrations, web-based access for patients to see their records are being implemented.

On a routine note, the cancer registry staff scrutinise the cases for confirmed cancer and record in the main server of TMH. In addition, a special software is used to validate data for range checks, cross checks, duplicate checks and blank checks as there are items which are to be entered without blanks in the data field. The registry data are also validated at the NCRP headquarters. To ensure quality and consistency in data, a random sample of 5% of case records are scrutinized and verified with the routine recording of cases.

TMH being a comprehensive Cancer hospital, patients from all parts of India and more than 800 cancer cases from neighbouring countries like Pakistan, Bangladesh and Nepal attend for expert care and opinion. The detection rate remains same whether patients attend from neighbouring areas or from far remote corners of India.

During the year 2012, 33,916 patients were registered in the hospital and out of which 25,541 patients were diagnosed as cancer cases. The largest contribution of cancer cases for the NCRP Network is from Tata Memorial Hospital. The leading site of cancer among males and females were Mouth and Breast respectively. In the same year, 20,077 cases were registered as Referral cases and 5,033 patients were registered in Preventive Oncology for opinion.

The department has also contributed for a monograph on Survival Studies published by IARC. The project on Patterns of Care and Survival Studies on Cancer of Cervix, Cancer of Breast and Cancer of Head & Neck is ongoing since 2006. Till date 10600 cancer cases have been registered under 'Head & Neck Cancer', 8500 under 'Breast Cancer' and 3200 under 'Cervix Cancer'. The primary objective of this project is to obtain the periodic follow-up for estimation of survival rates.

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