

POPULATION BASED CANCER REGISTRY, MUMBAI

Indian Cancer Society, Mumbai

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A Population Based Registry is essential for providing morbidity rates necessary to measure the success of a cancer control programme. In order to gauge the level of risk attributable to cancer as a public health problem and to assess its demands on the medical resources available in the community, it is mandatory to have easy access to reliable morbidity rates. With this aim in mind the Indian Cancer Society established the Mumbai Cancer Registry.

The Population Based Cancer Registry (PBCR) of Mumbai was established in 1964 before the inception of National Cancer Registry Programme (NCRP), a unit of Indian Council of Medical Research (ICMR). The registry has become part of NCRP-ICMR registry network 1982 onwards. It is the first cancer registry of India established with the aim to obtain reliable morbidity and mortality data on cancer from a precisely defined urban population. It has given a broad framework for controlling the impact of cancer in the community by carrying out various epidemiological studies.

Mumbai, a densely populated urban metropolis on the western coast of India, occupies an area of 603.0 km² and is the smallest district in Maharashtra State. Mumbai is the industrial heart of India and has a multilingual population representing every state in the Union.

Registration of Cancer cases is done by active method. For the past 48 years, Mumbai PBCR has been getting good co-operation from all the health care facilities in Mumbai. Information on cancer patient is obtained from various government hospitals, private hospitals, nursing homes and diagnostic centres. The social investigators visit all the sources regularly and collect all the available information by interviewing the patients wherever possible. Mortality information is collected from Vital Statistics Division of Mumbai Municipal Corporation.

During the period 2009-10, a total number of 22864 incident cases have been registered with 11091 males and 11773 females. The Male/Female ratio of incident cases is 0.94. The annual crude incident rate and age adjusted rate (world Standard Population) were 70.7 and 98.4 among males and 93.5 and 105.5 among females respectively per 100,000 persons. Cancer of the Mouth is the predominant site of cancer among males followed by cancer of Lung, Prostate and Non-Hodgkin's Lymphoma. Among females cancer of Breast is the commonest site of Cancer followed by cancer of Cervix, Ovary and Mouth. The leading three cancers account for the more than 46% of the total cancer burden among females due to increasing education level and effective cancer awareness programmes.

In the period 1964-72, the microscopic confirmation was 60.5 whereas for the period 2009-10 the

microscopic confirmation is 93.0. The DCO registration was 13.5 for the period 1964-72 and it has come down to 4.7 in 2009-10. The reliability of data and quality of registration has considerably improved over the years.

Registry publishes annual reports regularly. The registry has published more than 100 articles in indexed journals based on Cancer Incidence and Mortality till now. The registry data is used by public health workers for epidemiological studies, by the Govt. for cancer control programmes, by journalists for public education and by medical companies for promotion of their products.

The registry data has been accepted for publication in consecutive Volumes (II to IX) of Cancer Incidence in Five Continents published by IARC, Lyon, France.

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Main Sources of Registration of Incident Cases of Cancer: 2009-2010 - Mumbai

Name of the Institution	Number	%
T.M.H.	6542	28.6
Nanavati	1292	5.7
Other Small Hospital	1224	5.4
Private Doctor	1107	4.8
BMC	1086	4.7
Ismail Gen. (PAK)	888	3.9
K.E.M.	863	3.8
National	852	3.7
Bombay Hospital	807	3.5
NAIR	670	2.9
Jaslak	669	2.9
Kokilaben Dhirubhai Ambani	652	2.9
S.L. Raheja	612	2.7
Breach Candy	561	2.5
L.T.M.G, Sion	530	2.3
Shanti Avedna	499	2.2
Lilavati	497	2.2
Saifee	374	1.6
Holy Family Bandra	351	1.5
Cama And Albless	312	1.4
Hol Spirit	285	1.2
J.J.	226	1.0
Others	1965	8.6
Total	22864	100.0

1. Institutions listed have registered at least one percent of all cases in the registry for the combined years 2009-2010.

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.