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## INDIVIDUAL REGISTRIES WRITE-UP WITH TABLE OF SOURCES OF REGISTRATION

		<u>Page Nos.</u>
Bangalore	–	92-93
Barshi Rural	–	94-95
Barshi Expanded	–	96-97
Bhopal	–	98-99
Chennai	–	100-101
Delhi	–	102-103
Mumbai	–	104-105
Cachar District	–	106-107
Dibrugarh District	–	108-109
Kamrup Urban District	–	110-111
Manipur State	–	112-113
Mizoram State	–	114-115
Sikkim State	–	116-117
Ahmedabad Rural	–	118-119
Ahmedabad Urban	–	120-121
Aurangabad	–	122
Kolkata	–	123-124
Kollam	–	125-126
Nagpur	–	127-128
Pune	–	129-130
Thiruvananthapuram	–	131-132
Meghalaya	–	133-135
Tripura State	–	136-137
Nagaland	–	138-139
Wardha	–	140-141
Pasighat	–	142-145
Naharlagun	–	146-148
Patiala	–	149-150

# POPULATION BASED CANCER REGISTRY, BANGALORE

## Kidwai Memorial Institute of Oncology, Bangalore

**Dr M. Vijayakumar**, Principal Investigator and Director, KMIO

**Dr K. Ramachandra Reddy**, Co-Principal Investigator & Head

**Dr C. Ramesh**, Co-Principal Investigator & Head (from 30<sup>th</sup> Sep. 2011)

Bangalore, the capital of the state of Karnataka is located on the Deccan Plateau in the south-eastern part of Karnataka. It is among the top 10 preferred entrepreneurial locations in the world. Bangalore referred to as the Garden City of India has an abundance of flora and fauna and enjoys a pleasant and equable climate throughout the year. Bangalore is one of the major economic centres and a leading Information Technology centre of India. Besides Kidwai Memorial Institute of Oncology (KMIO) where the Population Based Cancer Registry (PBCR) is housed, there are several other corporate/private hospitals which have come up in the last few years. They are providing cancer care and are contributing data to the PBCR of Bangalore.

The registry was established in 1981 as a part of the National Cancer Registry Programme of the Indian Council of Medical Research and is providing data on cancer cases from 1982. KMIO also has a Hospital Based Cancer Registry (HBCR) and more than one third cancer cases of PBCR are from the base institution. The PBCR is funded partly by the Indian Council of Medical Research (ICMR). The registry is headed by a Principal Investigator, who is the Director of the Institute, a Co-Principal Investigator, who is a Professor and Head of the Department of Epidemiology and Biostatistics which includes both PBCR and HBCR.

There are 475 data sources, comprising cancer hospitals, general and private hospitals, teaching hospitals, pathology laboratories, city corporation death units and the city municipal death registration offices. The registry staff visit the sources and scrutinize the records kept in the medical records and pathology departments. They abstract the information from the cases of the residents of the registry area (minimum duration of residence being one year).

When the registry was started in 1981 the area of Bangalore urban agglomeration was 191 sq. kms and at present it has expanded to 741 sq. kms. The 1991 census and 2001 census population figures are used to estimate population for the year under report using difference distribution method and the estimated population for the years 2008 and 2009 were 7.2 million and 7.5 million respectively. PBCR Bangalore covers about 0.6% of the national population and the childhood population (age 0-14 years) in the registry area is about 26%. During the year 2008-09, a total number of 13415 cancer cases were included with 6026 males and 7389 females (M:F sex ratio being 1:1.2). The crude incidence rate, age adjusted incidence rates and truncated incidence rates per 100,000 population were 78.4, 113.7 and 165.4 in males and 105.6, 137.2 and 270.8 in females respectively.

The collected data is transmitted to NCRP every year to further process the data and prepare consolidated reports. The data analyzed at the base institution is used for dissemination among the Governmental and Research agencies enabling for formulation and implementation of policies for cancer care and also for the purposes of creating awareness among the public for prevention and early detection of cancer.

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**Main Sources of Registration of Incident Cases of Cancer: 2008-2009 - Bangalore**

<b>Name of the Institution</b>	<b>Number</b>	<b>%</b>
Kidwai Memorial Institute of Oncology	3638	27.1
Bangalore Institute of Oncology	2515	18.7
M S Ramaiah Medical College	1191	8.9
Manipal Hospital	1061	7.9
Curie Institute of Oncology	705	5.3
St. John's Medical College and Hospital	678	5.1
Karunashraya Ausp Centre	574	4.3
Apollo Hospital	209	1.6
St. Marthas Hospital	199	1.5
Vaidehi Hospital	178	1.3
Bhagwan Mahaveer Jain Hospital	173	1.3
St. Philomenas Hospital	168	1.3
Others	2126	15.8
<b>Total</b>	<b>13415</b>	<b>100.0</b>

1. Institutions listed have registered at least one percent of all cases in the registry for the combined years 2008-2009.
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.