



ANNUAL REPORT 1984



NATIONAL CANCER REGISTRY
A PROJECT OF
INDIAN COUNCIL OF MEDICAL RESEARCH
ANSARI NAGAR, NEW DELHI-110 029

Consolidated Report was prepared by the Co-ordinating Unit
(Technical Wing) of National Cancer Registry at Bombay.

Cancer Registries provided individual case data. Tabulations
and some by the Co-ordinating Unit at Bombay.

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NATIONAL CANCER REGISTRY

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POPULATION-BASED CANCER REGISTRY

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PREFACE

I am delighted to introduce the Annual Report of the National Cancer Registry Project for the year 1984, which incidentally is the third report of the project. The National Cancer Registry Project (NCRP) was initiated by the Indian Council of Medical Research in 1981-82 by augmenting/establishing three Population Based Cancer Registries (PBCR) one each at Bombay, Bangalore and Madras and three Hospital Cancer Registries (HCR) at Chandigarh, Dibrugarh and Trivandrum. The overall objectives of NCRP are:

- (i) to generate authentic data on the magnitude of the cancer problem;
- (ii) to undertake epidemiological investigations and institute control measures; and

(iii) human resources development in cancer epidemiology.

Population based registry is primarily concerned with assessing the load of cancer in the community. It provides data on cancer incidence and prevalence and secular trends over a period of time. It further provides the geographical variations in cancer incidence and clues to personal attributes of cancer patients such as age, sex, religion etc. Thus, it is a better base than hospital registry for epidemiological research through case-control and prospective studies. PBCR is suitable for identification of high-risk or low-risk groups and evaluation of any preventive intervention or screening programmes aimed at early detection.

Hospital Based Cancer Registry, on the other hand, has the primary concern for cancer patient in the hospital, where emphasis is on prompt and accurate diagnosis, properly selected treatment and active follow up of the patient. HCR maintains careful records on length and quality of survival in relation to site, stage and treatment modalities and thus contributes primarily to clinical research. It also assists in epidemiological research through short term case control studies.

The PBCRs have to collect information from other cooperating hospitals, nursing homes, etc., besides data from the base hospital. However, the volume of data from base hospitals was felt to be important and sufficient for them to be augmented to hospital registries with only minimal additional input. Thus, since March 1985 the network of HCRs has been extended in the PBCR base hospitals at Bombay, Bangalore and Madras.

Two new PBCRs were established at Bhopal and New Delhi from October 1985 and January 1986. With this, the network of NCRP has been augmented to eleven registries, five PBCRs and six HCRs.

Present report encompasses data from the nine registries. The crude incidence rates for 1984 were 56.3, 62.3 and 54.1 per 100,000 males and 76.6, 65.8 and 76.1 per 100,000 females in Bangalore, Bombay and Madras respectively. The age adjusted cancer incidence rates for the year 1984 were 102.0, 122.0 and 86.4 per 100,000 males and 141.8, 113.9 and 111.9 per 100,000 females at Bangalore, Bombay and Madras respectively. The number of cancer cases registered at various HCRs during 1984 were 4993 (2260 males and 2733 females), 10615 (5744 males and 4871 females), 2426 (1206 males and 1220 females), 1198 (863 males and 335 females), 3973 (1807 males and 2166 females) and 3852 (2097 males and 1755 females) at Bangalore, Bombay, Chandigarh, Dibrugarh, Madras and Trivandrum respectively.

Realising the work load of the NCRP, the registries have been automated from their inception, firstly through computing facility which is compatible to the micro computer at Technical wing, except Dibrugarh and Trivandrum and later on the micro computer at Technical Wing was upgraded for taking the load of all registries.

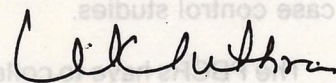
It is heartening that the data from the three PBCRs, namely Bombay, Bangalore and Madras, would now be included in the IARC publication 'Cancer Incidence in Five Continents'. It has been on the basis of knowledge gained from NCRP, that the National Cancer Control Programme was formulated and accepted by the Government of India, Ministry of Health and Family Welfare in 1984.

Annual Review Meetings of NCRP help greatly in sorting out technical and administrative problems and increase communications between registry personnel at various levels. The last Annual Review Meeting held at Trivandrum in November 1986, had the distinguished presence and contribution of WHO Consultants, Prof. M. Hakama, Department of Public Health, University of Tampere, Finland, and Dr. John Young Jr., NCI, Bethesda, USA and members of the Steering Committee, i.e. Dr. I. K. Dhawan, All India Institute of Medical Sciences, New Delhi, Dr. S. Radhakrishna, Institute of Research for Medical Statistics, and Dr. L. D. Sanghvi, Technical Wing, NCRP, Bombay. I extend my heart felt thanks to these experts for their valued suggestions.

I am grateful to the Project Chiefs and staff of the Registries, Technical Wing, and Operational Wing for the utmost cooperation they have provided in implementing the NCRP. Data from NCRP has helped in planning of case control studies on pharynx, oesophagus, stomach and uterine cervix which will help in unravelling the unknown epidemiological parameters of these cancers.

In order to make NCRP as a permanent State programme and to be able to initiate new activities through NCRP, the Council accorded 100% financial assistance to the registries during the first five years, and would accord 75% financial assistance during the next five years. Thereafter, the respective states would take these over as their continuing activity using the existing technical know-how.

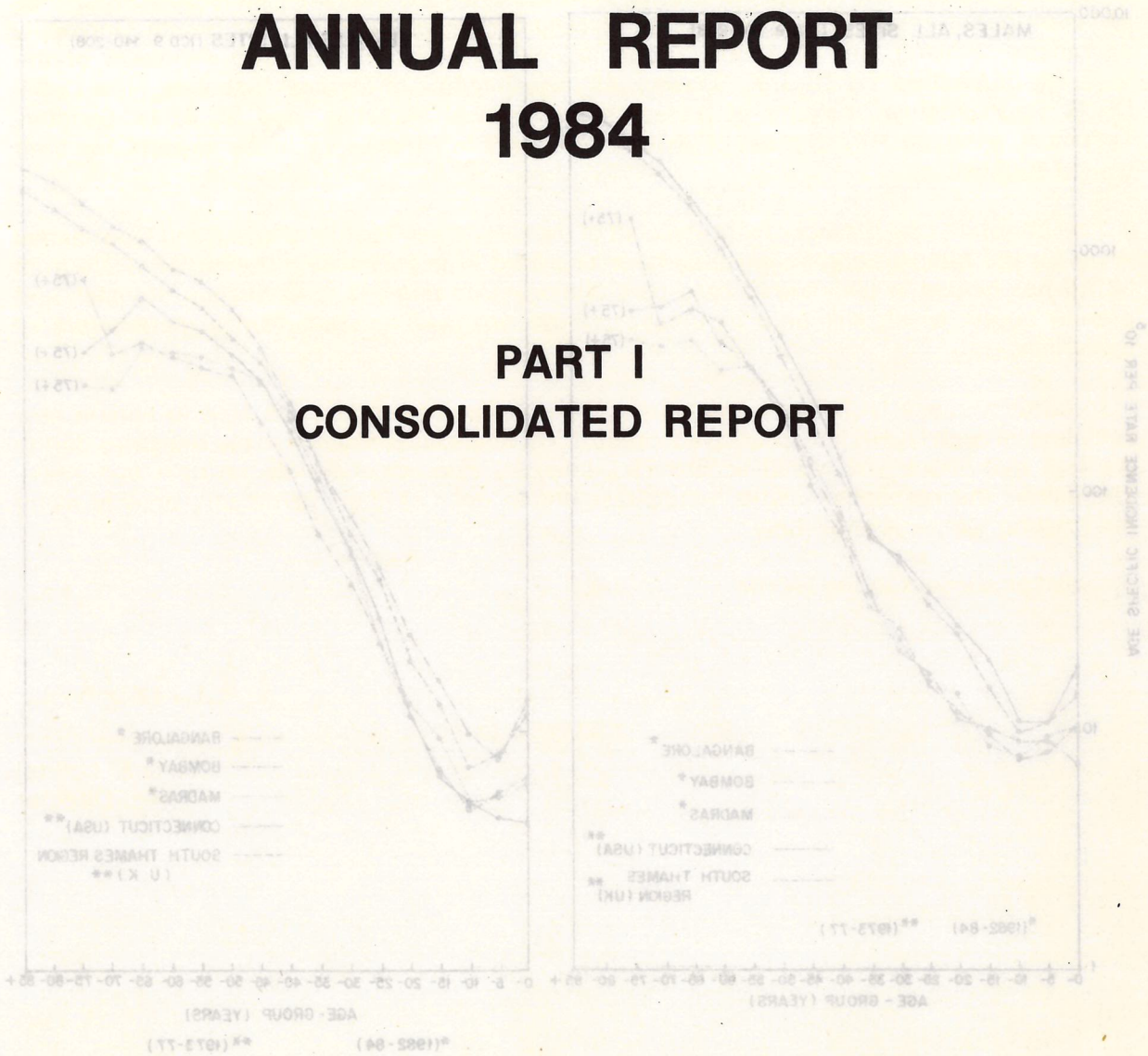
I wish all success to the NCRP.

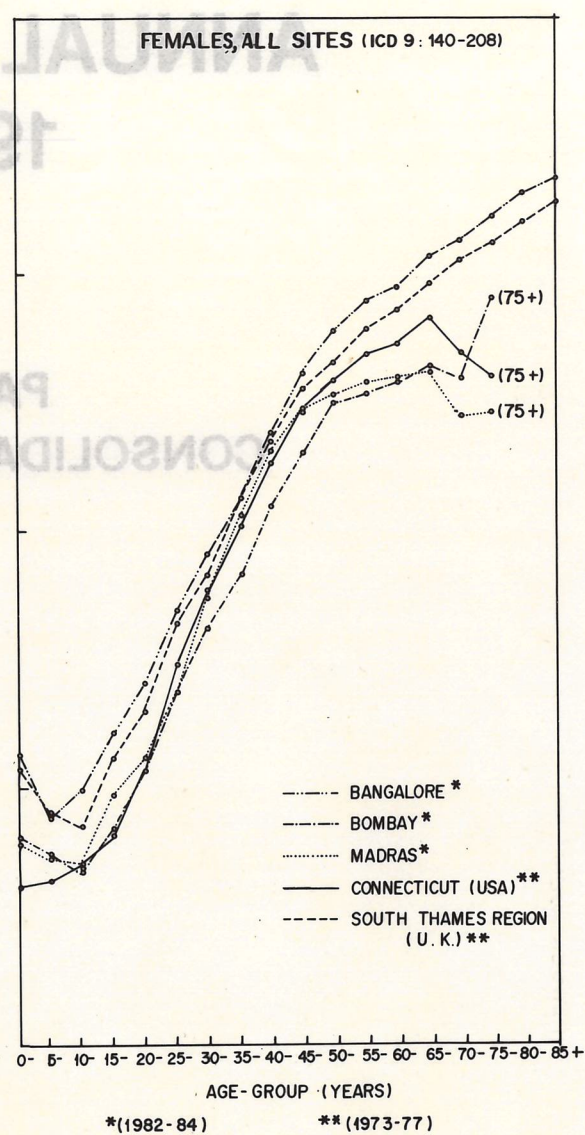
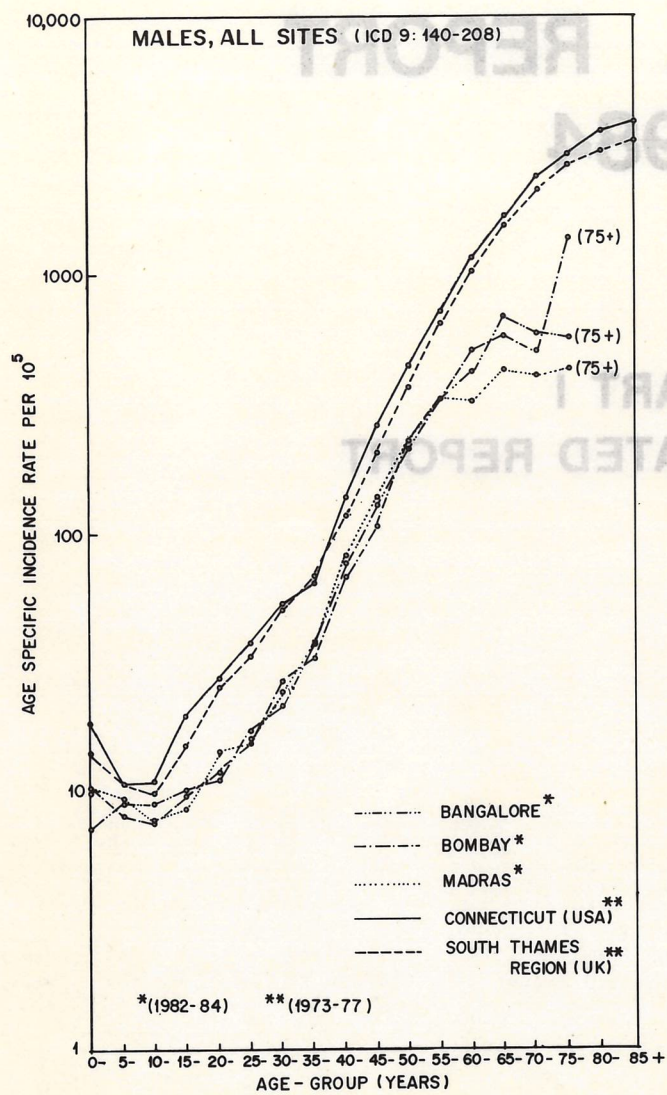


(Usha K. Luthra)
Project Director

ANNUAL REPORT 1984

PART I CONSOLIDATED REPORT





1. INTRODUCTION

This is the third annual report of the National Cancer Registry Project (NCRP). It covers new cancer cases registered during 1984 in the three population-based registries at Bangalore, Bombay and Madras and the three hospital registries at Chandigarh, Dibrugarh and Trivandrum. The population-based registries contributed a total of 10,346 new cancer cases and the hospital registries recorded 7,476 new cancer cases during this period. Their overall total of 17,822 new cancer cases registered during 1984 compares with a total of 17,740 cases, during 1983 and 17,262 cases, during 1982.

1.1 Addition of Three Hospital Registries

Three additional hospital registries came under the NCRP network from the beginning of 1984. They cover the base cancer hospitals of the three population registries at Bangalore, Bombay and Madras. With increasing experience in the functioning of the registries in the Indian situation, it became evident that the population-based registries cannot provide reliable information on clinical aspects of cancer, namely, extent of disease, treatment modalities, follow-up, survival and quality of life. These registries have to depend heavily on the co-operating hospitals, nursing homes etc., which are outside their jurisdiction. On the other hand, the quality of information on these clinical items in the base cancer hospitals is reasonably good and they can be upgraded to be valuable sources of uniform clinical data in course of time. With these considerations, Indian Council of Medical Research, (ICMR) took a decision to include these three cancer hospitals in the NCRP network. They contributed a total of 19,581 new cancer cases during 1984 compared to only 7,476 cancer cases contributed by the three existing hospital registries. They have considerably widened the data base for the hospital cancer patients. It may be pointed out that there is some overlap in the cancer cases included in the population cancer registries and the corresponding base hospital registries. No attempt has been made at this stage to take into account this overlap, as the objectives for which the two series are collected are sufficiently different.

1.2 Use of Computer Technology

As mentioned in our previous report, computer facility was introduced in Technical Wing (TW) in Bombay from its early stage and we have encouraged other participating registries to have compatible computers to simplify the transfer of data to the Technical Wing and to develop analytical skills at the local levels. This early decision has helped us considerably in coping with this rapid expansion of our activities. All the participating registries except Dibrugarh and Trivandrum have now access to computer facilities which are compatible with the facility available in the Technical Wing. The registry data for 1984 were transferred to the Technical Wing either on floppy disks or on magnetic tapes which made it easy for the Technical Wing to prepare clean data. There were some technical problems in the initial stages to transfer data from magnetic tapes received from PGI Chandigarh and Tata Memorial Hospital, Bombay. Those problems were ironed out with some persistent efforts. This was particularly satisfying for the Tata Memorial Hospital which alone contributed 10,615 new cancer cases during 1984. It is anticipated that Dibrugarh and Trivandrum will also have compatible computer facilities in the near future.

1.3 Format of Annual Reports

Format of preparation of annual reports by the participating registries and by the Technical Wing and of their presentation at the Annual Review Meeting (ARM) has been under scrutiny for sometime. It has become evident that there is a need for fresh guide-lines. Main issues that have emerged are summarized below:

- (a) Much of the data on religion, mother tongue, education etc. included in the consolidated reports prepared by TW changes very little from year to year. When changes do occur, they are frequently difficult to interpret. While TW should monitor these changes, annual review serves very little purpose. When TW believes that significant changes have occurred, they may be examined at ARM.
- (b) Considerable time is devoted by the participating registries at the time of ARM in presentation of massive statistical data which often do not convey much meaning to the participants. On the other hand, an exchange of ideas and problems may be far more profitable at the ARMs.

This matter was further discussed at the last ARM held in Trivandrum in November 1986. It was decided that the TW should prepare a concise annual report giving greater importance to emerging technical issues related to population-based and hospital cancer registries. It should also provide basic tables in the standard format as adopted earlier. The hospital cancer registries should henceforth focus attention on standardization and analysis of clinical data and less attention to relative frequency comparisons of demographic data.

In the light of this discussion, Mr. D. K. Jain has prepared the second chapter on "Method of Diagnosis and Indices of Reliability" and Dr. S. Krishnamurthy has prepared the third chapter on "Extent of Disease". As in the past, the primary responsibility of cleaning of the data, providing tables to the participating registries and preparation of the second part of this report has been borne by Mr. Jain.

1.4 Abstracting and Coding Manual

Following the Annual Review Meeting in Madras in November 1985, a four day Workshop was held from 25-28 November to study various aspects of quality control under the directorship of Mr. R. G. Skeet of Thames Registry, England. The Workshop was attended by staff from all the ICMR cancer registries and from the Technical Wing. All levels of staff were represented from social investigators to senior research and medical officers. During the discussion, it became clear that, while in general the rules and definitions to be followed were understood and there was a high level of agreement between registries, a precise and authoritative set of rules and definitions did not exist at least in an accessible form. The need for such a document was recognized as being an urgent one and a substantial amount of time was devoted to this aspect at the Workshop.

One of the recommendations of this Workshop was to prepare such an authoritative document and a committee was constituted to undertake this assignment. Mr. D. K. Jain, Mr. P. Gangadharan and Dr. A. Nandakumar were appointed as members of this Committee with Dr. R. G. Skeet to be a Consultant. Mr. Jain prepared a preliminary draft of this manual which was circulated to the registry chiefs, committee members and the Consultant for their comments. The committee members met at TW in Bombay for two days: 21-22 July 1986 and finalized the document taking into account the comments received. The manual in the final form was circulated to all the participating registries in September 1986 and was placed for adoption at the ARM at Trivandrum in November 1986. The manual has been adopted with minor comments for wider use by the participating registries and all others involved in this operation.

1.5 On-site Audit of Cancer Registries

The need for quality control in cancer registry operation has been widely accepted by all the participating registries. Major scrutiny of the data is carried out in the Technical Wing in Bombay by computer and mechanical checks. In early years, these checks revealed a large number of clerical and technical errors which have now considerably declined. These errors could be minimized by adequate local supervision. It has been strongly advocated that the participating registries should pay more attention to this aspect to reduce work of the TW. The abstracting and coding manual now available to the registries will help in this process.

With gradual replacement of proforma with floppy disks and magnetic tapes, need is being felt for checking the information sent to TW with the original sources for possible errors. Such an exercise will require on-site audit of a sample of registrations sent to TW. This type of audit is particularly important for population-based registries where information is often collected from sources which are outside their jurisdiction. Some of these issues were raised at the ARM in Madras in November 1985 during which, constitution of an inter-registry panel was suggested. In pursuance of this suggestion, a panel was constituted during 1986, consisting of Dr. L. D. Sanghvi, Dr. S. Krishnamurthy, Dr. A. Nandakumar with Mr. B. B. Yeole as local co-ordinator to conduct on-site audit of the Bombay Cancer Registry as a pilot project. Report of this panel was presented at the last ARM at Trivandrum and was adopted with some suggestions. Similar exercise is proposed to be conducted in Bangalore and Madras during 1987.

1.6 Case Control Studies

Cancer registry operations have highlighted the common cancers prevalent in different parts of the country. Aetiological factors of many of these cancers are not well understood and some of these cancers are suitable for case control studies to test specific aetiological hypothesis. Four case control studies were formulated by different teams and were discussed at the Annual Review Meetings in 1984 and 1985. Considerable improvements took place in formulation and design of these studies during this process. These studies are: (i) cervical cancer in Delhi, (ii) oesophageal cancer in Bangalore, (iii) pharynx and oesophagus in Dibrugarh and (iv) a multicentric study of stomach cancer in Bombay, Madras and Trivandrum. These proposals were further discussed in a meeting convened by the TW in Bombay in July, 1986. Specific aspects such as structure of hypothesis, selection of cases and controls, sample size, format of questionnaire etc. were discussed in great detail in relation to every study. Uniform questionnaires for tobacco and alcohol habits and for diet were prepared for use in different studies. Taking advantage of the presence of Dr. M. Hakama and Dr. John Young, the WHO Consultants, the studies were further refined at the last ARM at Trivandrum and have been sent to ICMR for financial support.

1.7 Intervention Studies

Indian Cancer Control Programme envisages control of tobacco related cancers and early detection of oral and cervical cancers as the two major thrust areas in its long term strategy to control cancer. In order to develop appropriate intervention approaches and to have cost benefit analysis in different situations, several studies have been formulated and some are already being implemented. These studies were reviewed at the last ARM at Trivandrum. Dr. J. Stjernsward of the WHO Cancer Unit in Geneva, who is deeply interested in cancer control activities, chaired this session. Studies are in general of five-years duration and are to be conducted in three phases. Phase-I would be of preparation, training and field survey, lasting for one year. The second phase would be of the actual intervention in the population and would be of three years duration. The third phase would be of evaluation of the results and preparation of a report. Intervention studies on oral cancer are to be carried out in Karnataka,

Goa and Agra where this cancer is common. Intervention studies on cervical cancer are to be conducted in Delhi and Karnataka. Cytology Research Centre in Delhi which has been engaged in early detection of cervical cancer for many years will bring in its expertise on this study. The meeting was attended by Dr. P. C. Gupta of TIFR as a special invitee who gave benefit of his rich experience in the successful conduct of intervention studies on oral cancer.

1.8 Base-line Data on Tobacco Habits

National Cancer Control Programme gives a high priority to prevention of tobacco related cancers. These cancers account for almost a third of all the cancers in the country. In addition, tobacco habits are responsible for a significant fraction of mortality due to cardiovascular diseases and chronic obstructive lung diseases and for many complications to expectant and nursing mothers. In view of this, prevention of tobacco usage in any form has to receive urgent attention. Unfortunately, no national survey has been conducted in recent years to determine the extent of tobacco habits and their patterns in different parts of the country, and no official agency is monitoring the trends of these habits. In order to make a modest beginning, a decision was taken at the last ARM at Trivandrum to initiate some activities in this direction under the NCRP and a committee was appointed to go into this question.

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2. METHOD OF DIAGNOSIS AND INDICES OF RELIABILITY

In order to confirm the diagnosis of cancer of a patient after clinical examination, by the attending physician or surgeon, various diagnostic criterias are suggested and/or recommended, such as: biopsy, cytology, blood film, bone marrow, x-ray, isotopes, ultrasound, endoscopy, specific biochemical and/or immunological tests etc. It is possible that more than one tests or investigations are carried out on a patient so as to confirm the diagnosis of cancer. Both, PBCRs and HCRs, collect information on methods of diagnosis (most valid basis) as per item nos. 18 and 16 respectively, on their proformas.

2.1 Most Valid Basis of Diagnosis

The following methods for diagnosis are accepted, both for PBCRs and HCRs:

1. Microscopic Verification (MV)
 - (a) Histological examination of operative or biopsy material of primary site;
 - (b) Histological proof obtained from metastatic areas;
 - (c) Autopsy material with histological confirmation of cancer;
 - (d) Cytological diagnosis (including blood smear and bone marrow tests);
2. X-Ray and other imaginations (including angiographic, isotope and ultrasound investigations).
3. Clinical diagnosis only.
4. Others (evidence obtained at operation including endoscopic, and autopsy evidence even without histological proof).
5. Death certificate only (for PBCRs only).

2.2 Population-Based Cancer Registries

Diagnostic Criteria: All Sites (All ages)

The various criteria used to diagnose cancer, during 1982, 1983, 1984 and 1982-84, by the three PBCRs, are compared in Table 2.2 and illustrated in Figure 2.2 for men and women for all sites and all ages.

In evaluating the efficiency of cancer data, reliability is always measured by the proportion of cancer cases having microscopic verification of diagnosis. The higher the proportion of microscopic verification of diagnosis for cancer of the affected organs the more confident one is that a neoplasm existed at the stated site.

Microscopic verification has been generally good in all the PBCRs during 1982, 1983 and 1984. Proportion of cancer cases based on microscopic verification (MV) is high in women than men in three PBCRs. MV varies in men between 71% to 74% in Bangalore, 65% to 66% in Bombay and 62% to 67% in Madras, while in women it varies between 75% to 81% in Bangalore, 68% to 70% in Bombay and 71% to 75% in Madras.

POPULATION - BASED CANCER REGISTRIES

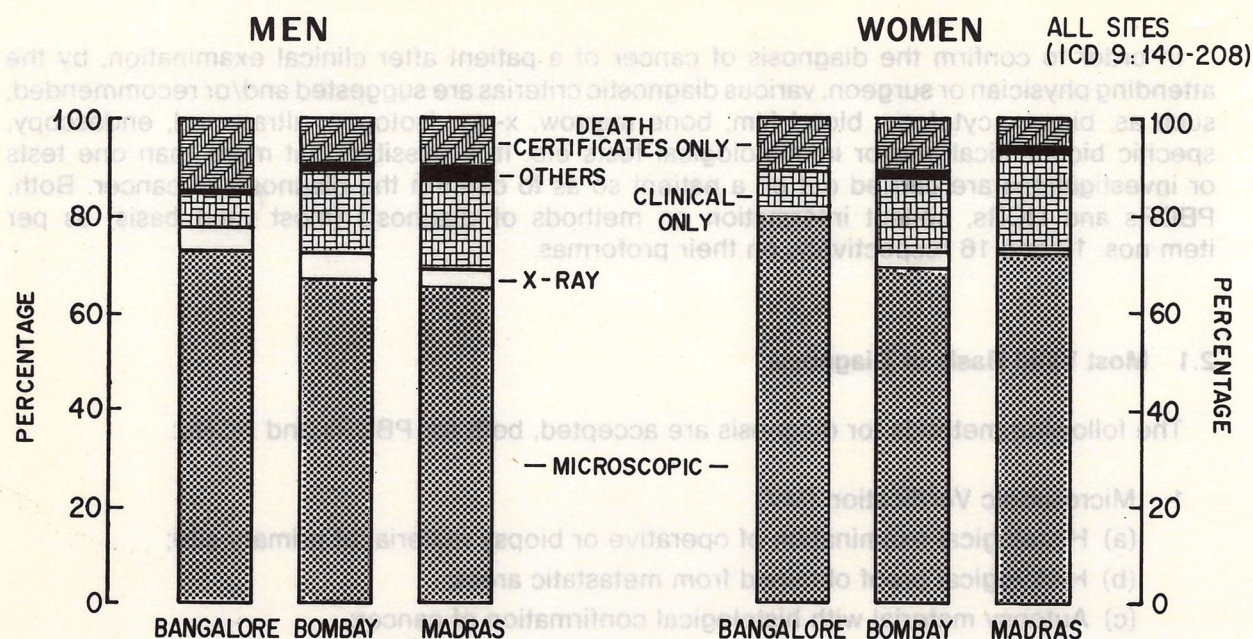


Figure 2.2: Method of Diagnosis of Cancer (1982-84)

Proportion of cancer cases diagnosed on the basis of X-Ray examination is low in all the three PBCRs. In men, it varies between 4% to 5% in Bangalore, 5% to 6% in Bombay, and 0.6% to 6% in Madras. While in women, X-Ray diagnosis varies between 2% to 3% in Bangalore, 3% to 5% in Bombay and 0.7% to 2% in Madras. It is significant to observe that in Madras, among men and women, during 1982, X-Ray diagnosis were only 0.6% to 0.7% respectively, but in 1984, 6.2% men and 1.7% women cancer patients were diagnosed by X-Ray. This shows an improvement in the proportion of cases diagnosed by X-ray over the three year period in Madras.

Cancer cases diagnosed on clinical basis only is high both in Bombay and Madras, among men and women. This diagnosis varies between 16% to 18% in Bombay, in Madras between 17% to 22%, and 7% to 8% in Bangalore in men during the years 1982, 1983 and 1984. On the other hand, women patients diagnosed clinically as cancer, during these years, varies between 16% to 21% in Madras, 13% to 17% in Bombay and 5% to 8% in Bangalore.

Proportion of cancer patients diagnosed by other means i.e., on the basis of gross examination at an operation and on endoscopic findings, such as after cystoscopy (without biopsy) is low in all the three PBCRs. It is very low in Bangalore, varies between 0.0% to 0.6% in men and women. In Bombay, it varies between 0.7% to 2%, while in Madras, it varies between 0.5% to 4% in men and women.

Proportion of cancer cases discovered only from death certificates (unmatched deaths), is high in Bangalore (15%), while in Bombay (9.5%) and Madras (9.9%) is low in men during 1982-1984. In contrast, proportion of cancer cases registered through DCO, in women, are low in Madras (6%) and in Bangalore and Bombay, in each 11% are registered through DCO.

POPULATION-BASED CANCER REGISTRIES

TABLE—2.2 METHODS OF DIAGNOSIS (MOST VALID BASIS) OF CANCER.
SITE: ALL SITES (ICD.9: 140-208), AGE: ALL AGES.

MEN (%)

Method of Diagnosis	Year	Bangalore	Bombay	Madras
Microscopic Verification	1982	73.7	67.4	61.7
	1983	74.1	66.6	67.2
	1984	71.0	65.6	66.0
	1982-1984	72.9	66.5	65.0
X-Ray	1982	5.5	6.0	0.6
	1983	3.7	5.9	3.5
	1984	4.4	4.5	6.2
	1982-1984	4.5	5.4	3.4
Clinical only	1982	8.4	16.0	22.0
	1983	6.7	15.9	17.4
	1984	6.8	18.3	16.7
	1982-1984	7.3	16.8	18.7
Others	1982	0.0	1.5	0.7
	1983	0.6	1.4	4.0
	1984	0.1	2.3	4.1
	1982-1984	0.2	1.8	2.9
Death Certificate only	1982	12.5	9.1	15.0
	1983	14.9	10.2	7.8
	1984	17.7	9.3	7.0
	1982-1984	15.0	9.5	9.9
TOTAL CASES (All Sites, All Ages)	1982	969	3128	982
	1983	979	3125	1050
	1984	966	3244	962
	1982-1984	2914	9497	2994

WOMEN (%)

Method of Diagnosis	Year	Bangalore	Bombay	Madras
Microscopic Verification	1982	81.0	68.6	70.7
	1983	81.7	69.6	70.8
	1984	75.4	68.4	74.6
	1982-1984	79.3	68.9	72.0
X-Ray	1982	3.0	3.6	0.7
	1983	1.7	4.6	1.2
	1984	2.9	2.7	1.7
	1982-1984	2.5	3.6	1.2
Clinical only	1982	8.1	13.1	20.8
	1983	5.2	15.1	21.2
	1984	8.2	17.1	15.9
	1982-1984	7.2	15.1	19.4
Others	1982	0.0	2.1	0.5
	1983	0.1	0.7	1.9
	1984	0.3	1.7	2.0
	1982-1984	0.1	1.5	1.5
Death Certificate only	1982	7.9	12.6	7.3
	1983	11.3	10.0	4.9
	1984	13.2	10.1	5.7
	1982-1984	10.8	10.9	5.9
TOTAL CASES (All Sites, All Ages)	1982	1168	2526	1315
	1983	1149	2496	1392
	1984	1178	2715	1281
	1982-1984	3495	7737	3988

2.3 Indices of Reliability of Registration

In the assessment of reliability of cancer registration, for PBCRs, there are currently three commonly used numerical indices for comparing the registered data on incident cases as suggested under "Cancer Incidence in Five Continents", (Volume IV, IARC 1982):

- (1) Microscopic Verification of diagnosis (MV): the proportion of cases registered which had microscopic verification of diagnosis.
- (2) Death Certificate Only (DCO): the proportion of cases registered for which no information is available other than a statement on the death certificate that the deceased died from or with cancer.
- (3) Deaths in period (DIP): the comparison of the number of cases with a given cancer registered during a particular period and the number of deaths attributed to the same cancer in that period. It is expressed as a proportion.

2.3.1 Microscopic Verification of diagnosis

The proportion of cases registered with microscopic verification of diagnosis is given by sex and for all sites (ICD. 9: 140-208) in Table 2.3(a) and for selected sites mouth, oesophagus, stomach, lung, female breast and uterine cervix in Tables 2.3(c) to 2.3(h), for Bangalore, Bombay and Madras, PBCRs. The histological verification of diagnosis implies that it has been possible to investigate a patient with such thoroughness that a portion of the suspected neoplasm has been removed for microscopic examination.

If the proportion of histological verification of diagnosis for cancer of the deeper-seated organs, such as the pancreas and brain is high, the one is more confident that a malignant tumour existed and that it arose at the stated site.

The proportion of microscopic verification of diagnosis is generally good in the Indian registries in comparison of Connecticut, South Thames Region and Singapore (Indians) registries (Table 2.3(b), and Figure 2.3). The MV (%) is high in Bangalore in men and women in comparison to Bombay and Madras registries.

However, one should be cautious while interpreting the high proportion of microscopically verified cases. A very high proportion of cases in which the diagnosis was confirmed histologically, does not necessarily mean that the figures from that registry represent a more reliable estimate of true incidence than a registry with a lower proportion. A high proportion may only indicate that the recorded figure is not an over-estimation of true incidence. The high proportions may reflect the fact that the case finding was incomplete and limited or largely to cases registered from pathological laboratories. A fall in proportion with microscopic verification from one time period to another may be due to the emergence of a new diagnostic tool.

The proportion of patients having microscopic confirmation of diagnosis of cancer depends primarily on the accessibility of the region of the body affected by cancer. Histological confirmation of cancers in the lip, oral cavity and pharynx and the female breast and genital tract is available with greater consistency and frequency than for growth, at inaccessible sites, such as the digestive and respiratory systems.

The proportion of MV is high for mouth cancers (ICD.9: 143-145) in Bangalore (varies between 88% to 100%) and Bombay (83% to 88%) in men and women while they are low in Madras (54% to 74%) during three year period. It is conspicuous to observe that during 1984 the proportion of MV has gone down in Madras in men (54.8%) and women (58.1%).

Patients suffering with cancer of oesophagus, stomach and lung, in the three PBCRs, in men and women their diagnosis is confirmed microscopically in 40% to 75%, except 11% female lung cancer cases in Madras. Female breast and uterine cervix cancers are confirmed microscopically in 65% to 94% of cases in the three registration areas.

2.3.2 Death Certificate Only

The use of death certificates provide information about persons with cancer who were not registered during their life time. Thus it provides an important check on the completeness of registration. If the proportion of cases which are registered only on the basis of death certificates is high, this would imply that the recorded incidence rates are likely to be low.

All the three PBCRs, Bangalore, Bombay and Madras, visit the Vital Statistics Division of the Municipal Corporation in their registration areas regularly and screen all death records. Copies are made of all death certificates which mention "cancer" or "tumour" as the cause of death. These death certificates are then matched against the registered cases in their files. Every cancer death not traceable to an entry in their files is labelled as an "unmatched death" and date of death is then taken as the date of first diagnosis, and is so registered in the corresponding year's data file.

The proportion of cases discovered only from death certificates (unmatched deaths) in Bangalore (Male—15.0%, Female—10.8%), Bombay (Male—9.5%, Female—10.9%) and Madras (Male—9.9%, Female—5.9%) varies between 6% to 15%. Many of these patients are probably those patients with advanced disease, who attend out-patient departments of various collaborating hospitals and seek medical advice at a later stage of the disease when no active treatment was possible.

The number of cases registered through death certificates are given in Tables 2.3(a) to 2.3(h) for selected sites such as mouth, oesophagus, stomach, lung and female breast and uterine cervix. The mouth cancers registered through DCO's are between 4% to 6% in Bombay, in Madras between 1% to 2% and less than 1% in Bangalore.

Proportion of cancer cases registered through DCO's for oesophagus, stomach and lung is high in the three registration areas and varies between 8% to 14% in men and 4% to 29% in women. Similarly female breast and cervix cancer registered through DCO's are 2% to 8% during the three year period.

2.3.3 Deaths in Period

It is self-evident that if the number of deaths from cancer exceeds the numbers registered then registration is incomplete, unless the incidence of that site of cancer is declining at a very rapid rate. The deaths in period for all sites and selected sites are presented in Tables 2.3(a)

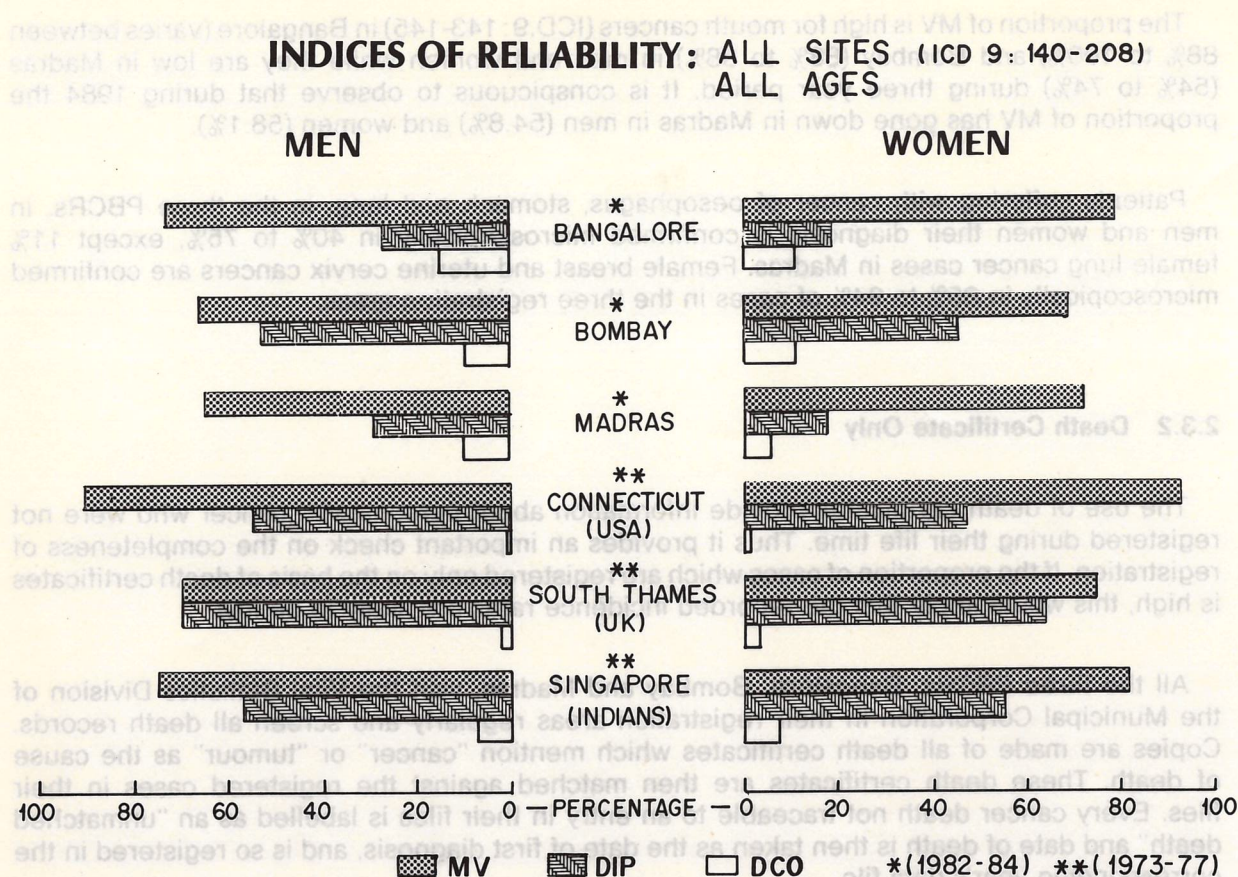


Figure 2.3: A Comparison of Microscopic Verification of Diagnosis (MV), Deaths in Period (DIP) and Death Certificate only (DCO) Between Population-based Registries

to 2.3(h) by sex and for all ages. For some sites, such as lung, bone, brain, liver and oesophagus, survival is poor and therefore morbidity is likely to approach mortality. For others such as breast and colon, survival is good and this should be reflected in the ratio of mortality to morbidity. Skin cancer, apart from malignant melanoma, should have a low mortality. Examination of the ratio of mortality to morbidity by site should thus give some indication as to the completeness of registration. However mortality data may be affected by the place of death, wrong diagnosis on death certificate, availability of better information in morbidity than mortality.

Deaths in period for all sites for Bombay registry (Male—51.8%, Female 45.4%) are higher, for both in men and women but they are low in Bangalore (Male—26.9%, Female—18.7%) and Madras (Male—28.9%, Female—17.7%). There may be number of factors for low mortality, morbidity ratios in Bangalore and Madras. This may reflect the fact that the cancer death certification both in Bangalore and Madras registration areas are incomplete than that of Bombay. It is also possible that in Bangalore and Madras death certification is not compulsory while in Bombay no dead body can be disposed of without death certification.

POPULATION-BASED CANCER REGISTRIES

TABLE—2.3(a) INDICES OF RELIABILITY—SITE:ALL SITES (ICD.9:140—208)—AGE:ALL AGES.

Description	Year	Bangalore		Bombay		Madras	
		Male	Female	Male	Female	Male	Female
Total Incident Cases	1982	969	1168	3128	2526	982	1315
	1983	979	1149	3125	2496	1050	1392
	1984	966	1178	3244	2715	962	1281
	1982-1984	2914	3495	9497	7737	2994	3988
Microscopically Verified Cases (MV)	1982	714	946	2108	1734	606	929
	1983	725	939	2081	1737	706	986
	1984	686	888	2128	1858	635	956
	1982-1984	2125	2773	6317	5329	1947	2871
Death Certificate Only Cases (DCO)	1982	121	93	284	318	147	96
	1983	146	130	318	250	82	68
	1984	171	156	300	273	67	73
	1982-1984	438	379	902	841	296	237
Cancer Deaths in Period	1982	*	*	*	*	*	*
	1983	259	212	1589	1156	301	248
	1984	264	224	1711	1211	280	224
	1982-1984	523	436	3300	2367	581	472
MV (%)	1982	73.7	81.0	67.4	68.7	61.7	70.7
	1983	74.1	81.7	66.6	69.6	67.2	70.8
	1984	71.0	75.4	65.6	68.4	66.0	74.6
	1982-1984	72.9	79.3	66.5	68.9	65.0	72.0
DCO (%)	1982	12.5	8.0	9.1	12.6	14.9	7.3
	1983	14.9	11.3	10.2	10.0	7.8	4.9
	1984	17.7	13.2	9.3	10.1	7.0	5.7
	1982-1984	15.0	10.8	9.5	10.9	9.9	5.9
DIP (%)	1983	26.5	18.5	50.8	46.3	28.7	17.8
	1984	27.3	19.0	52.7	44.6	29.1	17.5
	1983-1984	26.9	18.7	51.8	45.4	28.9	17.7

*Cancer death certificates for the year 1982 are NOT yet received by Technical Wing from Bombay Cancer Registry. Bangalore and Madras cancer death certificates are under processing; these certificates were submitted to Technical Wing lately.

TABLE—2.3(b) INDICES OF RELIABILITY FOR USA (CONNECTICUT), UK (SOUTH THAMES REGION), SINGAPORE (INDIANS), 1973-1977.

Description	Sex	USA Connecticut	UK South Thames	SINGAPORE (Indians)
Total Incident Cases	Male	27335	65593	485
	Female	28345	66514	221
MV (%)	Male	91	70	75
	Female	93	75	81
DCO (%)	Male	1	2	7
	Female	1	3	7
DIP (%)	Male	55	70	57
	Female	48	64	55

SOURCE: Cancer Incidence in Five Continents, Volume IV. WHO (IARC), 1982.

POPULATION-BASED CANCER REGISTRIES
TABLE—2.3(c) INDICES OF RELIABILITY—SITE:MOUTH (ICD.9:143—145)—AGE:ALL AGES.

Description	Year	Bangalore		Bombay		Madras	
		Male	Female	Male	Female	Male	Female
Total Incident Cases	1982	38	108	159	100	74	95
	1983	47	82	168	90	75	90
	1984	37	78	147	93	62	74
	1982-1984	122	268	474	283	211	259
Microscopically Verified Cases (MV)	1982	38	98	136	85	52	70
	1983	43	77	142	75	52	63
	1984	36	69	130	82	34	43
	1982-1984	117	244	408	242	138	176
Death Certificate Only Cases (DCO)	1982	0	1	8	8	2	1
	1983	0	0	9	5	1	1
	1984	0	1	6	5	1	1
	1982-1984	0	2	23	18	4	3
Cancer Deaths in Period	1983	2	2	40	26	6	10
	1984	5	1	31	18	9	9
	1983-1984	7	3	71	44	15	19
MV (%)	1982	100.0	90.7	85.5	85.0	70.3	73.7
	1983	91.5	93.9	84.5	83.3	69.3	70.0
	1984	97.3	88.5	88.4	88.1	54.8	58.1
	1982-1984	95.9	91.0	86.1	85.5	65.4	68.0
DCO (%)	1982	0.0	0.9	5.0	8.0	2.7	1.1
	1983	0.0	0.0	5.4	5.6	1.3	1.1
	1984	0.0	1.3	4.1	5.4	1.6	1.4
	1982-1984	0.0	0.4	4.9	6.4	1.9	1.2
DIP (%)	1983	4.3	2.4	23.8	28.9	8.0	11.1
	1984	13.5	1.3	21.1	19.4	14.5	12.2
	1983-1984	8.3	1.9	22.5	24.0	10.9	11.6

TABLE—2.3(d) INDICES OF RELIABILITY—SITE: OESOPHAGUS (ICD. 9:150)—AGE: ALL AGES.

Description	Year	Bangalore		Bombay		Madras	
		Male	Female	Male	Female	Male	Female
Total Incident Cases	1982	72	59	272	165	78	37
	1983	59	61	230	157	67	61
	1984	78	81	291	175	73	62
	1982-1984	209	201	793	497	218	160
Microscopically Verified Cases (MV)	1982	54	36	165	90	43	26
	1983	43	52	125	90	45	35
	1984	50	59	166	113	54	40
	1982-1984	147	147	456	293	142	101
Death Certificate Only Cases (DCO)	1982	7	3	25	28	12	2
	1983	6	3	28	25	5	4
	1984	4	2	31	23	5	5
	1982-1984	17	8	84	76	22	11
Cancer Deaths in Period	1983	19	14	174	110	18	15
	1984	14	9	179	99	23	16
	1983-1984	33	23	353	209	41	31
MV (%)	1982	75.0	61.0	60.7	54.5	55.1	70.3
	1983	72.9	85.3	54.3	57.3	67.2	57.4
	1984	64.1	72.8	57.0	64.6	74.0	64.5
	1982-1984	70.3	73.1	57.5	59.0	65.1	63.1
DCO (%)	1982	9.7	5.1	9.2	17.0	15.4	5.4
	1983	10.2	4.9	12.2	15.9	7.5	6.6
	1984	5.1	2.5	10.7	13.1	6.8	8.1
	1982-1984	8.1	4.0	10.6	15.3	10.1	6.9
DIP (%)	1983	32.2	22.9	75.7	70.1	26.9	24.6
	1984	17.9	11.1	61.5	56.6	31.5	25.8
	1983-1984	24.1	16.2	67.8	62.9	29.3	25.2

POPULATION-BASED CANCER REGISTRIES
TABLE—2.3(e) INDICES OF RELIABILITY—SITE:STOMACH (ICD.9:151)—AGE:ALL AGES.

Description	Year	Bangalore		Bombay		Madras	
		Male	Female	Male	Female	Male	Female
Total Incident Cases	1982	102	54	179	107	133	69
	1983	109	54	186	79	161	74
	1984	105	46	189	87	146	59
	1982-1984	316	154	554	273	440	202
Microscopically Verified Cases (MV)	1982	52	28	83	46	58	30
	1983	62	29	113	39	79	32
	1984	65	29	103	47	78	27
	1982-1984	179	86	299	132	215	89
Death Certificate Only Cases (DCO)	1982	6	4	26	27	27	17
	1983	15	6	30	17	16	5
	1984	17	6	22	12	10	5
	1982-1984	38	16	78	56	53	27
Cancer Deaths in Period	1983	29	12	117	61	55	18
	1984	28	9	120	57	52	14
	1983-1984	57	21	237	118	107	32
MV (%)	1982	51.0	51.9	46.4	43.0	43.6	43.5
	1983	56.9	53.7	60.8	49.4	49.1	43.2
	1984	61.9	63.0	54.5	54.0	53.4	45.8
	1982-1984	56.7	55.8	54.0	48.4	48.9	44.1
DCO (%)	1982	5.9	7.4	14.5	25.2	20.3	24.6
	1983	13.8	11.1	16.1	21.5	9.9	6.8
	1984	16.2	13.0	11.6	13.8	6.8	8.5
	1982-1984	12.0	10.4	14.1	20.5	12.0	13.4
DIP (%)	1983	26.6	22.2	62.9	77.2	34.2	24.3
	1984	26.7	19.6	63.5	65.5	35.6	23.7
	1983-1984	26.6	21.0	63.2	71.1	34.9	24.1

TABLE—2.3(f) INDICES OF RELIABILITY—SITE:TRACHEA, BRONCHUS & LUNG (ICD. 9:162)—AGE:ALL AGES.

Description	Year	Bangalore		Bombay		Madras	
		Male	Female	Male	Female	Male	Female
Total Incident Cases	1982	47	11	333	63	63	11
	1983	74	14	360	64	86	14
	1984	83	18	324	80	90	9
	1982-1984	204	43	1017	207	239	34
Microscopically Verified Cases (MV)	1982	22	6	164	26	27	7
	1983	51	11	159	33	44	7
	1984	59	12	140	35	39	1
	1982-1984	132	29	463	94	110	15
Death Certificate Only Cases (DCO)	1982	5	1	37	11	10	4
	1983	7	1	51	11	7	5
	1984	12	1	42	14	7	1
	1982-1984	24	3	130	36	24	10
Cancer Deaths in Period	1983	17	4	220	45	36	11
	1984	20	3	223	54	43	4
	1983-1984	37	7	443	99	79	15
MV (%)	1982	46.8	54.6	49.2	41.3	42.9	63.6
	1983	68.9	78.6	44.2	51.6	51.2	50.0
	1984	71.1	66.7	42.2	43.8	43.3	11.1
	1982-1984	64.7	67.4	45.5	45.4	46.0	44.1
DCO (%)	1982	10.6	9.1	11.1	17.5	15.9	36.3
	1983	9.5	7.1	14.2	17.2	8.1	35.7
	1984	14.5	5.6	13.0	17.5	7.8	11.1
	1982-1984	11.8	7.0	12.8	17.4	10.0	29.4
DIP (%)	1983	22.9	28.6	61.1	70.3	41.9	78.6
	1984	24.1	16.7	68.8	67.5	47.8	44.4
	1983-1984	23.6	21.9	64.8	47.8	44.9	65.2

POPULATION-BASED CANCER REGISTRIES

TABLE—2.3(g) INDICES OF RELIABILITY—SITE: BREAST (ICD.9:174)—AGE: ALL AGES.

Description	Year	Bangalore Female	Bombay Female	Madras Female
Total Incident Cases	1982	163	505	228
	1983	171	524	197
	1984	184	595	210
	1982-1984	518	1624	635
Microscopically Verified Cases (MV)	1982	144	346	148
	1983	153	388	152
	1984	147	433	161
	1982-1984	444	1167	461
Death Certificate Only Cases (DCO)	1982	3	63	17
	1983	9	30	7
	1984	7	49	12
	1982-1984	19	142	36
Cancer Deaths in Period	1983	19	173	34
	1984	16	200	43
	1983-1984	35	373	77
MV (%)	1982	88.3	68.5	64.9
	1983	89.5	74.0	77.2
	1984	79.9	72.8	76.7
	1982-1984	85.7	71.9	72.6
DCO (%)	1982	1.8	12.5	7.5
	1983	5.3	5.7	3.6
	1984	3.8	8.2	5.7
	1982-1984	3.7	8.7	5.7
DIP (%)	1983	11.1	33.0	17.3
	1984	8.7	33.6	20.5
	1983-1984	9.9	33.3	18.9

TABLE—2.3(h) INDICES OF RELIABILITY—SITE: CERVIX UTERI (ICD.9:180)—AGE: ALL AGES.

Description	Year	Bangalore Female	Bombay Female	Madras Female
Total Incident Cases	1982	321	459	518
	1983	317	472	525
	1984	287	496	472
	1982-1984	925	1427	1515
Microscopically Verified Cases (MV)	1982	304	388	401
	1983	295	394	398
	1984	261	385	396
	1982-1984	860	1167	1195
Death Certificate Only Cases (DCO)	1982	4	26	18
	1983	11	23	5
	1984	6	24	9
	1982-1984	21	43	32
Cancer Deaths in Period	1983	23	118	42
	1984	16	106	40
	1983-1984	39	224	82
MV (%)	1982	94.7	84.5	77.4
	1983	93.1	83.5	75.8
	1984	90.9	77.6	83.9
	1982-1984	93.0	81.8	78.9
DCO (%)	1982	1.3	5.7	3.5
	1983	3.5	4.9	1.0
	1984	2.1	4.8	1.9
	1982-1984	2.3	5.1	2.1
DIP (%)	1983	7.3	25.0	8.0
	1984	5.6	21.4	8.5
	1983-1984	6.5	23.1	8.2

2.4 Hospital Cancer Registries

2.4.1 Diagnostic Criteria: All Sites (All ages).

The different criteria used to diagnose cancer in the years of 1982, 1983, 1984 and 1982–1984 are given in Table 2.4 and 2.4(b) for men and women, for hospital registries, for all sites and all ages.

In general, microscopic verification of diagnosis has been good in all the HCRs during three years. Proportion of cancer cases based on microscopic verification (MV) is higher in women compared to men in all the registries, except Dibrugarh.

2.4.2 Microscopic Verification of Diagnosis

Tables 2.4(a) and 2.4(c) present proportion of microscopic confirmation of diagnosis for selected cancer sites i.e. tongue, mouth, oesophagus, stomach, lung cancers in men and women, and for breast and cervix cancers in women.

It is conspicuous to observe that there is high proportion of microscopic verification of diagnosis for all sites in all the HCRs for men and women who were suffering from the disease cancer.

Proportion of patients having microscopic confirmation of cancer depends primarily on the accessibility of the region of the body affected by cancer. Histological confirmation of cancers in the tongue, mouth and female breast and uterine cervix, is available with greater consistency than for growths at inaccessible sites, such as oesophagus, stomach, larynx and lung.

Patients suffering from cancer of the tongue and mouth in almost all the registries, their diagnosis is confirmed microscopically in 70% to 100% of cases, except Madras (Male—55.5%, Female—36.1%). Similarly female breast and uterine cervix cancers are confirmed microscopically in 60% to 97% of cases.

It may be of particular interest to examine the microscopic confirmation of diagnosis for the three internal sites i.e., oesophagus, stomach and lung for which there are reasonably large number of cases in all the HCRs, particularly in men. For all these three sites, proportion of cases diagnosed microscopically vary between 25% to 93%. It is highest in Chandigarh for these three sites.

Year	Microscopic Verification (MV)		Clinical Only	Others	TOTAL CASES
	Men	Women			
1982	100	100	100	100	100
1983	100	100	100	100	100
1984	100	100	100	100	100
1982-1984	100	100	100	100	100
1982	100	100	100	100	100
1983	100	100	100	100	100
1984	100	100	100	100	100
1982-1984	100	100	100	100	100
1982	100	100	100	100	100
1983	100	100	100	100	100
1984	100	100	100	100	100
1982-1984	100	100	100	100	100
1982	100	100	100	100	100
1983	100	100	100	100	100
1984	100	100	100	100	100
1982-1984	100	100	100	100	100
1982	100	100	100	100	100
1983	100	100	100	100	100
1984	100	100	100	100	100
1982-1984	100	100	100	100	100

HOSPITAL CANCER REGISTRIES

TABLE-2.4 METHODS OF DIAGNOSIS (MOST VALID BASIS) OF CANCER.

SITE: ALL SITES (ICD.9:140-208), AGE: ALL AGES.

MEN (%)

Method of Diagnosis	Year	Chandigarh	Dibrugarh	Trivandrum
Microscopic Verification (MV)	1982	87.9	82.3	75.2
	1983	89.4	79.6	79.0
	1984	93.4	83.1	83.7
	1982-1984	90.3	81.6	79.5
X-Ray	1982	2.8	8.1	5.5
	1983	4.4	12.7	5.3
	1984	2.2	13.1	5.4
	1982-1984	3.1	11.3	5.4
Clinical Only	1982	4.6	7.5	13.5
	1983	1.3	2.8	11.2
	1984	1.1	0.6	7.9
	1982-1984	2.3	3.7	10.8
Others	1982	4.7	2.1	5.7
	1983	4.9	4.8	4.5
	1984	3.3	3.2	3.0
	1982-1984	4.3	3.4	4.3
TOTAL CASES	1982	1127	902	1890
(All Sites)	1983	1070	888	2024
(All Ages)	1984	1206	863	2097
	1982-1984	3403	2653	6011

WOMEN (%)

Method of Diagnosis	Year	Chandigarh	Dibrugarh	Trivandrum
Microscopic Verification (MV)	1982	91.1	78.7	73.5
	1983	92.8	78.1	83.3
	1984	93.9	85.4	87.6
	1982-1984	92.6	80.6	81.7
X-Ray	1982	1.4	6.2	2.3
	1983	1.3	10.0	1.8
	1984	0.6	10.5	2.7
	1982-1984	1.1	9.0	2.3
Clinical Only	1982	4.9	12.3	21.1
	1983	3.3	5.3	12.9
	1984	2.8	1.5	7.8
	1982-1984	3.7	6.3	13.3
Others	1982	2.6	2.8	3.1
	1983	2.6	6.6	2.1
	1984	2.7	2.6	1.9
	1982-1984	2.6	4.1	2.3
TOTAL CASES	1982	1328	324	1603
(All Sites)	1983	1227	379	1691
(All Ages)	1984	1220	335	1755
	1982-1984	3775	1038	5049

HOSPITAL CANCER REGISTRIES
TABLE—2.4(a) MICROSCOPIC VERIFICATION OF DIAGNOSIS FOR SELECTED CANCER SITES.

MEN								
Site (ICD. 9)	Year	Chandigarh		Dibrugarh		Trivandrum		
		n	%	n	%	n	%	
Tongue (141)	1982	56	92.9	81	92.6	140	81.4	
	1983	52	98.1	62	88.7	145	80.7	
	1984	59	100.0	61	100.0	143	83.2	
	1982-1984	167	97.0	204	93.6	428	81.8	
Mouth (143—145)	1982	30	96.7	48	95.8	317	75.4	
	1983	23	87.0	56	91.1	325	75.7	
	1984	36	94.4	42	95.2	333	84.4	
	1982-1984	89	93.3	146	93.8	975	78.6	
Oesophagus (150)	1982	77	90.9	146	66.4	102	58.8	
	1983	78	87.2	157	53.5	121	62.0	
	1984	76	81.6	159	61.0	120	79.1	
	1982-1984	231	86.6	462	60.2	343	67.1	
Stomach (151)	1982	38	97.4	43	55.8	99	36.4	
	1983	24	79.2	59	54.2	121	47.1	
	1984	45	91.1	53	52.8	103	54.4	
	1982-1984	107	90.7	155	54.2	323	46.1	
Trachea, Bronchus and Lung (162)	1982	133	69.2	26	42.3	201	61.2	
	1983	129	64.3	32	40.5	223	77.1	
	1984	123	87.0	42	28.6	209	81.8	
	1982-1984	385	73.3	105	36.2	633	73.6	
WOMEN								
Site (ICD. 9)	Year	Chandigarh		Dibrugarh		Trivandrum		
		n	%	n	%	n	%	
Tongue (141)	1982	24	91.7	22	95.5	47	72.3	
	1983	12	91.7	14	100.0	69	79.7	
	1984	19	94.7	7	100.0	60	90.0	
	1982-1984	55	92.7	43	97.7	176	81.3	
Mouth (143—145)	1982	19	89.5	17	100.0	178	68.5	
	1983	29	89.7	20	90.0	190	69.5	
	1984	17	82.3	22	95.5	157	80.9	
	1982-1984	65	87.7	59	94.9	525	72.6	
Oesophagus (150)	1982	62	85.5	42	64.3	32	46.9	
	1983	67	92.5	55	58.2	36	63.9	
	1984	70	90.0	57	56.1	36	63.9	
	1982-1984	199	89.5	154	59.1	104	58.7	
Stomach (151)	1982	9	66.7	8	25.0	38	18.4	
	1983	9	66.7	25	40.0	28	35.7	
	1984	17	88.2	21	76.2	48	58.3	
	1982-1984	35	77.1	54	51.9	114	39.5	
Trachea, Bronchus and Lung (162)	1982	22	72.7	5	20.0	8	87.5	
	1983	23	69.6	5	80.0	23	78.3	
	1984	16	75.0	5	80.0	22	72.7	
	1982-1984	61	72.1	15	60.0	65	75.4	
Breast (174)	1982	171	93.6	27	92.6	274	83.6	
	1983	204	95.1	48	72.9	270	92.6	
	1984	167	96.4	33	87.9	286	93.0	
	1982-1984	542	95.2	108	82.4	830	89.8	
Cervix Uteri (180)	1982	579	94.8	68	80.9	409	65.0	
	1983	493	96.8	67	82.1	442	82.4	
	1984	474	95.8	62	98.4	457	93.2	
	1982-84	1546	95.7	197	86.8	1308	80.7	

HOSPITAL CANCER REGISTRIES

TABLE—2.4(b) METHODS OF DIAGNOSIS (MOST VALID BASIS) OF CANCER DURING 1984.
SITES: ALL SITES (ICD.9: 140-208).

Method of Diagnosis	Sex	Bangalore (KMIO)	Bombay (TMH)	Madras (CI)
Microscopic Verification (MV)	Male	89.2	92.6	62.8
	Female	92.8	92.8	66.1
X-Ray	Male	2.8	1.9	6.3
	Female	1.5	0.8	2.6
Clinical Only	Male	6.5	5.0	24.4
	Female	4.6	6.2	30.4
Others	Male	1.5	0.5	6.5
	Female	1.1	0.2	0.9
TOTAL CASES	Male	2260	5744	1807
(All Sites)	Female	2733	4871	2166
(All Ages)	Total	4993	10615	3973

TABLE—2.4(c) MICROSCOPIC VERIFICATION OF DIAGNOSIS FOR SELECTED CANCER SITES DURING 1984.

Site (ICD. 9)	Sex	Bangalore		Bombay		Madras	
		n	%	n	%	n	%
Tongue (141)	Male	108	94.7	577	95.7	155	55.5
	Female	18	94.7	114	98.3	36	36.1
Mouth (143—145)	Male	165	99.4	548	95.3	237	60.3
	Female	342	98.8	228	96.6	192	54.2
Oesophagus (150)	Male	183	79.2	454	91.0	147	59.2
	Female	161	81.7	261	90.3	61	57.4
Stomach (151)	Male	103	74.1	117	86.7	138	30.4
	Female	35	71.4	44	86.3	47	51.1
Trachea, Bronchus and Lung (162)	Male	177	85.5	279	80.4	129	51.9
	Female	22	88.0	63	94.0	16	31.3
Breast (174)	Female	245	85.7	833	85.7	306	80.4
Cervix Uteri (180)	Female	1120	97.1	1591	95.8	1027	62.5

3. EXTENT OF DISEASE

3.1 CANCER AND ITS SPREAD

Cancer is a group of different diseases characterised by their ability to invade contiguous structures and to spread to organs and tissues variously remote from their original site.

The spread of malignant neoplasms ("new growths"), despite being the topic of intense past and present study and of medical tomes*, is still poorly understood. Some facts are known: cancers spread by directly invading surrounding tissues, by direct implantation, by lymphatics, by blood stream (veinous, mostly), and transcoelomically by implantation. The method of spread is related to the site of origin of the primary tumour, the anatomic barriers precluding or facilitating its dissemination, its rate of growth, histologic type, degree of differentiation, and several other factors. A thorough knowledge of anatomy and tumour pathology is important in understanding the spread of cancer.

3.1a Lymphatic Spread:

The majority of malignant neoplasms are carcinomas (cancers of epithelial/endothelial origin), and have a propensity to spread via lymphatics draining their tissue or organ of origin. These lymphatics are afferent to (drain into) regional groups of lymph nodes which are in turn linked to more distal ("further away") groups of nodes and eventually drain via the thoracic duct into the venous system. Fewer malignancies (except in children) are sarcomas (cancers of connective tissue origin), and these tend to spread hematogenously.

3.2 VALUE AND USES OF EXTENT OF DISEASE DATA

Patient prognosis, therapeutic rationale and efficacy assessments require critically considered data on the extent of spread of the original cancer. The quality (reliability and validity) of "extent of disease" (EOD) information in a registry operation, therefore, directly impinges on the use and value of that registry's data in planning strategies for cancer control, early diagnosis, intervention, and for retrospective and prospective studies of aetiology.

For example, if data on "localised" cancers are misclassified, evaluating the need for and effectiveness of, clinics or centres for earlier diagnosis will be difficult. Similarly, using intervention strategies to downstage say, cervical cancers from distantly to regionally spread at diagnosis will need accurate measurement and documentation of, staging. Aetiopathogenetic studies' eg. case-control studies', — interview scheduling needs information on the stage at which most of the cancers to be studied are diagnosed. For example, gastric cancer patients' antecedent exposure information, if only obtained through relatives because most patients died soon after diagnosis (made at distant spread of the disease), will be of less value than direct patient interviewed information.

To further comment on the importance of answers to this data item, ANY ATTEMPT at CANCER CONTROL REQUIRES "EXTENT" INFORMATION. If, as has often been said, a major objective of the National Cancer Registry Project (NCRP) is to be a base and a centre for Cancer Control efforts, this data is of critical importance.

*"The Spread of Tumours" by R. Willis.

3.3 METHODS OF EVALUATION

Many thoughtful efforts to devise clear, simple, logical, and universally useable systems of classifying cancer spread have been made. Unfortunately, cancer is NOT a single disease but rather a group of heterogeneous diseases with some common characteristics, so that one system may not universally apply.

In general, solid tumefactions can be distinguished from the mostly non-solid malignancies like those of the haemopoietic and reticuloendothelial systems. Even among solid tumours, gynaecologic cancers (cervix and corpus uteri, ovary etc.) behave differently in some ways, from non-gynaecologic cancers, for anatomic reasons. And of course, human nature being what it is, no one system would be easily accepted by all people on the globe.

For these reasons, several systems to document the degree of cancer spread and resultant tumour burden to the host have developed. The following paragraphs describe the best known and most commonly used. They are:

- (a) the Tumour Node Metastasis (TNM) system developed by the International Union against Cancer (UICC),
- (b) the American Joint Committee on Cancer staging (AJCC) system sponsored, among others, by the American Cancer Society and the American College of Surgeons,
- (c) the Fédération Internationale de Gynécologie et Obstétrics, (FIGO), system for gynaecologic cancers, and
- (d) the French American British (FAB) system for leukaemias, the Ann Arbor classification for non-Hodgkin's lymphomas and Rye classification for Hodgkin's disease.

3.3a TNM or Tumour Node Metastasis System:

Developed by the International Union against Cancer (UICC), it is based on the tumour size, node involvement and number, and metastases (other than lymph nodal). It is further categorised as clinical TNM (cTNM)—a purely clinical assessment, and pathologic TNM (pTNM) based on pathologic examination of surgically removed tissue. It is more specific than the AJCC system.

3.3b AJCC, the system espoused by the American Joint Committee on Cancer Staging:

Its broad categories are: cancers LOCALISED to their primary organ/tissue of origin; REGIONALLY SPREAD—to the regional lymph node group, directly extended into surrounding tissues, or both; METASTASIZED TO DISTANT organs, tissues or lymph nodes. Tumour size per se, is not taken into account. Assessment of spread includes investigative/diagnostic procedures—eg. X-rays, surgical exploration, pathologic examination, etc. and is not clinical alone unless so specified. It is less specific than the TNM system.

3.3c A third system, FIGO:

Developed by the Fédération Internationale de Gynécologie et Obstétrics (FIGO), it is widely used for gynaecologic malignancies. It addresses concepts of intra-epithelial neoplasia, in situ cancer and uterine cancer spread more effectively than the TNM or AJCC systems.

The distinction between the cTNM and pTNM is not as well appreciated as originally hoped for. At the 14th International Cancer Congress in Budapest in 1986, a revised classification, combining features of the TNM and AJCC systems, for head and neck and breast cancers, was announced. This, and updates of the TNM, will be available in early 1987.

3.3d Lymphomas, Leukaemias:

Reticuloendothelial, lymphoid, and bone marrow-derived malignant proliferations do not lend themselves to the above systems which are useful for solid tumours. The best established classification of these is the FAB for leukemias, Ann Arbor for non-Hodgkin's lymphomas and Rye for Hodgkin's disease.

3.4 ABSTRACTING, CODING AND ORGANISING EOD DATA ACCURATELY

The various systems used to document extent of cancer are difficult enough for the doctor to master; abstracting and coding this data can be even more confusing for the largely non-medical personnel in cancer registries. Organizing coding methods for various systems, not all of which are applicable to all cancers, adds to registries' difficulty with this data item. The SEER Program in the USA has changed its coding system four times, from an initial 2-digit nonspecific through a 13-digit site-specific to the currently used 4-digit code which is again being revised.

A staging committee appointed soon after the NCRP started collecting data suggested the TNM system be used for head & neck, skin and breast cancers, FIGO for gynaecologic cancers, and AJCC for all other cancers. After this excellent start, problems are now apparent such as correlating a purely clinical EOD question with a requirement for post-surgical disease assessment as in the AJCC system. The three systems, as above described, are very different in the terms used for different stages. Confusion in understanding medical terminology, in abstracting, coding and organizing the data can lead to inaccurate conclusions from correlations of stage, therapy and outcome. Further, different registries may be coding the data differently.

3.5 FACTORS AFFECTING (Limiting) EXTENT OF CANCER DATA IN THE NCRP

The quality of this data can be improved in several ways. One, by periodic review and correlation of patients' original charts with the EOD data in registry records. Two, by correlating EOD information with that on method of diagnosis and type of therapy for consistency and appropriateness. Several factors, as follows, affect the EOD data.

3.5a Hospital Cancer Registries (HCRs) vs. Population-based Registries:

This year, extent of disease information is analysed only for HCR data, in response to suggestions at past NCRP Annual Review Meetings. These suggestions were based on evidence that EOD is less reliable in population than in hospital settings since the population data derives from many sources rather than a single source.

The population-based cancer registries in India are in large metropolitan agglomerates. Data is drawn from a variety of sources. Some are teaching hospitals and large cancer centres that have reasonable pathology, radiology, medical record, nursing, and other departments on which optimal clinical cancer care depend. Many, however, may not have adequate facilities for cancer care. In addition, staging information is complex enough for the oncology specialist in a cancer centre to understand and remember; it is even more difficult for the noncancer specialist. In the general hospital, staging details may not be considered important enough to warrant the focus they need, to be accurate. This situation is likely to remain as long as communicable diseases and population/family planning remain higher priority health problems than cancer, in the general hospital.

It was decided to confine EOD data analysis to HCR data only, in order to obtain reasonably reliable and valid cancer extent data from the registry network, and since all the hospital registries are based either in cancer centres, or large teaching hospitals. In some parts of the country, eg. Assam, the centre wherein the hospital registry is, may be the only available cancer diagnostic and treatment facility serving millions of people. It is possible, therefore, that although the information is hospital-based, the nature of hospital facilities in the community are such that a minimum population estimate of cancer spread patterns, can be made. This would not be true, of course, for well known referral centres like the Tata Hospital or the Cancer Institute, Madras based in cities with many medical facilities. Interpretations of the hospital-data therefore, should consider the background and nature of that hospital and its location.

The challenge to this project, is to develop methods whereby at least basic minimum "extent" data can be accurately obtained, on a population and hospital basis.

3.5b Patients Treated Prior to Registration and Not so Treated:

When patients are willing to try any system of health care and many are available, as in India, the most locally available therapy might be first tried by most patients. It is likely, in such

situations, that the cancer stage gets altered. If cancer extent is reduced the patient may become sanguine for a while until further recrudescence, at which point he/she may enter the larger cancer centre. Alternatively, some downstaging may initially occur, especially for cancers amenable to surgical extirpation, and the patient may be referred for post-surgical radiation to the cancer centre. Most poor, illiterate, rural patients wait until there is no choice but to visit the cancer centre and therefore often present late.

To achieve the objective of accurately documenting disease extent at FIRST DIAGNOSIS, therefore, it is essential to reliably separate patients who have received previous treatment from those who have not, and interpret disease extent data only from the latter group. This can be done in two ways which act as cross checks: have a code for "treated elsewhere" in the EOD question or analyse EOD data only from those patients answering 'NO' to the question on previous treatment—item (24a) in the HCR form.

3.5c Major Objectives of Hospital Cancer Registries and Panel for Uniform EOD Data:

The major thrust of the HCRs is monitoring cancer patient care so that appropriate strategies for cancer control can be developed. Since EOD data so critically affects cancer patient diagnosis, treatment, survival, response and outcome, its reliability, validity, and consistency in patients not previously treated needs to be ensured.

A group of clinicians, pathologists, and others have therefore been asked by the 1986 Annual Review Meeting to address issues of uniform EOD data classification and collection, definitions of treatment and outcome parameters, and appropriate coding in the NCRP data form. When this is done and abstractors, coders, and statisticians are enabled to translate complex medical terms into organized data, the foundation for effective monitoring of cancer screening, prevention, care, and control will be laid.

3.6 ANALYSIS OF 1984 EXTENT OF DISEASE (EOD) DATA—INTRODUCTION

The discussion in the next sections 3.6-3.10 pertains to registry and gender variations in the degree of cancer spread as documented in the 1984 NCRP data from the six hospital cancer registries. They are in Bangalore (Kidwai Memorial Institute of Oncology or KMIO), Bombay (Tata Memorial Hospital or TMH), Chandigarh (Post-Graduate Institute or PGI), Dibrugarh (Assam Medical College or AMC), Madras (Cancer Institute or CI) and Trivandrum (Regional Cancer Centre or RCC).

The data item "Clinical Extent of Disease at First Diagnosis" is analysed. Every hospital registry data set includes raw tabulation under codes "in situ, localized, direct-extension, regional lymph node involvement, direct-extension and regional lymph node involvement, distant metastasis, not palpable, too advanced, not applicable, treated elsewhere, unknown", for this data item.

These 11 coded groups have been condensed into 4: "Localised"—including code "localised" alone; "Regionally spread or Regional"—including 'direct-extension, regional lymph node involvement', and both combined; "Distantly spread or Distant"—including codes 'distant metastasis' and 'too advanced'; and "Other", including the rest. Thus the "Other" category includes the codes 'in situ, not palpable, not applicable, treated elsewhere, and unknown'. Since the code 'treated elsewhere', is not yet printed on the proforma, it is possible some patients who received treatment prior to registration at the reporting institution (and whose EOD classification might be affected by such treatment) may be included in the "Other" category in this data, while some who received such prior treatment may not be so included.

The analysis focusses on the consolidated "Localised", "Regional" and "Distant" groups. The "Other" group is first described in section 3.7. Evaluation of EOD of cancers of all organ sites follow in section 3.8; of cancers of the cervix uteri, breast, larynx & hypopharynx in 3.9, and of the lung, oesophagus and stomach in 3.10.

3.7 CANCER CASES CATEGORISED "OTHER"

Tabulated data, as provided, of the number and proportion of all male and female cancer cases labelled "Other" in each hospital registry (Table 3.7) show Chandigarh registers the least (16%) males in this category and Dibrugarh, the most (54%). Chandigarh and Madras register the lowest proportions (16%) of "Others" among females, and Dibrugarh, the highest (58.5%). The remaining registries record from 21% Trivandrum males to 30% Bombay (TMH) and Bangalore (KMIO) males as "Others". There are 23%, 27% and 36% respectively, in this category, among females in Bangalore, Trivandrum and Bombay.

TABLE-3.7 CANCERS CATEGORISED "OTHER" IN EXTENT OF DISEASE DATA: NCRP (ICMR), 1984, HCRs#

Males		Hospital Registry (Institution)	Females	
Total No. Cases	Others* No. (%)		Total No. Cases	Others* No. (%)
1206	191 (15.8)	CHANDIGARH (PGI) #	1220	191 (15.7)
863	463 (53.7)	DIBRUGARH (AMC)	335	196 (58.5)
2097	433 (20.6)	TRIVANDRUM (RCC)	1755	469 (26.7)
2260	719 (31.8)	BANGALORE (KMIO) #	2733	632 (23.1)
5744	1730 (30.1)	BOMBAY (TMH)	4871	1763 (36.2)
1807	464 (25.7)	MADRAS (CI)	2166	349 (16.1)

*Others = Codes Not Palpable, Not Applicable, Treated elsewhere, Unknown, and in situ

HCRs = Hospital Cancer Registries; PGI = Post Graduate Institute, AMC = Assam Medical College; RCC = Regional Cancer Centre; KMIO = Kidwai Memorial Institute of Oncology; TMH = Tata Memorial Hospital; CI = Cancer Institute

Organ-site breakdown of the "Other" columns yields a few observations of interest:

Female breast cancer patients constitute the single largest number and proportion of cases in all registries except Dibrugarh. A separate (unpublished) analysis of treatment patterns has shown that breast cancer patients are the most frequent group (upto 50%) to be treated elsewhere prior to registration at the reporting institution. Since Bombay registers the most breast cancers overall, a higher percentage (36) of Bombay females recorded as "Other" compared to Bangalore (23%), Madras (16%), and Trivandrum (27%), would be expected.

Organ-site characteristics of the "Others" (Tables 3.9c to 3.10d) are less well defined in males. Generally, cancers which are most frequent tend to constitute higher proportions of the "Other" group. These are: hypopharynx and oesophagus in Bangalore and Dibrugarh; lung in Bangalore and Chandigarh; tongue and hypopharynx in Bombay; tongue, mouth, oesophagus and stomach in Madras; mouth and lung in Trivandrum. These proportions may merely reflect patients' propensity to seek health care wherever conveniently available, before acting on referrals or persistent symptoms to attend the larger, more impersonal, more inconvenient, cancer centre.

Lymphoreticular and haemopoietic malignancies (ICD.9 codes 200-208) constitute 10-14% male cases and very few female cases, in all registries except Dibrugarh (3%). These are included in "Others" as they do not fit in the AJCC classification (see section 3.3).

3.7.1 Conclusion:

Data from Dibrugarh needs validation. Breast cancer is the most frequently treated prior to registration at the reporting institution and the most frequent cancer categorised "Other". Males with the more frequent cancers are more likely to receive treatment prior to registration at the reporting institution than those with less frequent cancers.

The Extent of Disease analysis which follows, focusses on cancers of the cervix, breast, larynx & hypopharynx, lung, oesophagus, and stomach.

3.8 EXTENT OF DISEASE—CANCERS OF ALL ORGAN SITES

Evaluation of the extent of spread of all cancers arising in all organ sites (Table 3.8 Fig. 3.8) confirms something well known to cancer clinicians—that 80 to 94% of patients at diagnosis, regardless of gender, have disease spread beyond the primary site.

Lowest frequencies (7% and 6%) of "localised" disease are recorded in Bangalore (males and females) and in Chandigarh females (7%). Highest "localised" frequencies are in males from Dibrugarh (20%) and Bombay (TMH) (19.4%) and in Bombay females (20%). The remaining registries record around 11-17% "localised" male cases and 13-16% female cases.

Gender variations in patients with regionally and distantly spread disease exist between the Bangalore and Madras registries on the one hand and Bombay, on the other. Thus, the male: female ratios for this group are lower in Bangalore (61: 71) and Madras (57: 71) but higher in Bombay (50.5: 43.5). This is probably explained by the higher frequencies of cervical cancer in South Indian women compared to Bombay, and the tendency for this cancer to be diagnosed later in Bangalore and Madras than in Bombay. The four decade-long existence of the Tata Hospital may also have impacted on the Bombay populations' awareness of cancer and interest in early diagnosis. Thirdly, South Indian women may be more reluctant to be examined by a doctor than the more cosmopolitan Bombay woman, and may therefore go to the doctor later than South Indian men.

The "localised" figures from Dibrugarh and Bombay need validation. Previous treatment outside the reporting institution, and misclassified "localised" may account for at least a part of these cases.

TABLE—3.8 EXTENT OF DISEASE—ALL CANCERS: NCRP (ICMR), 1984, HCRs*

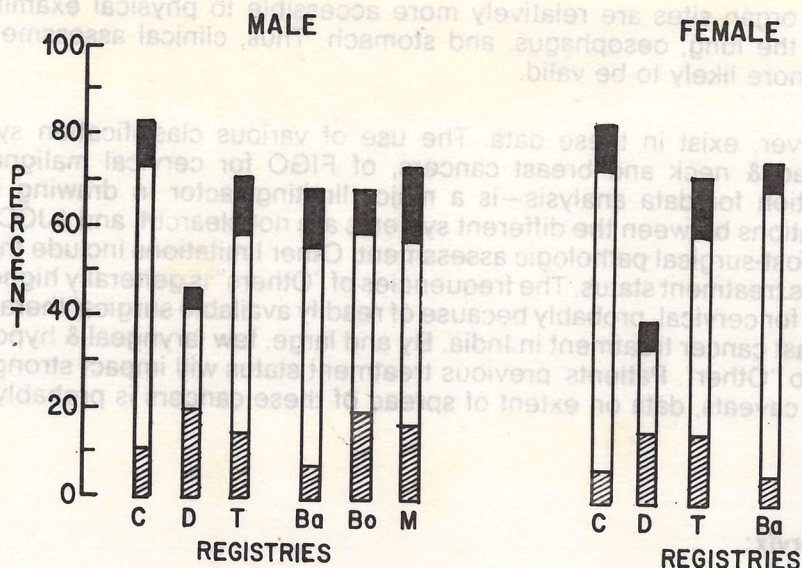
Registry	Category	Male		Female	
		n	(%)	n	(%)
CHANDIGARH (PGI)*	Localised #	136	(11.3)	85	(7.0)
	Regional	758	(62.9)	817	(67.0)
	Distant	121	(10.0)	127	(10.4)
	Other	191	(15.8)	191	(15.7)
DIBRUGARH (AMC)*	Localised	172	(19.9)	50	(14.9)
	Regional	195	(22.6)	68	(20.3)
	Distant	33	(3.8)	21	(6.3)
	Other	463	(53.7)	196	(58.5)
TRIVANDRUM (RCC)*	Localised	357	(17.0)	274	(15.6)
	Regional	906	(43.2)	782	(44.6)
	Distant	401	(19.1)	230	(13.1)
	Other	433	(20.6)	469	(26.7)
BANGALORE (KMIO)*	Localised	162	(7.2)	164	(6.0)
	Regional	1088	(48.1)	1739	(63.6)
	Distant	291	(12.9)	198	(7.2)
	Other	719	(31.8)	632	(23.1)
BOMBAY (TMH)*	Localised	1115	(19.4)	991	(20.3)
	Regional	2335	(40.7)	1684	(34.6)
	Distant	564	(9.8)	433	(8.9)
	Other	1730	(30.1)	1763	(36.2)
MADRAS (CI)*	Localised	306	(16.9)	290	(13.4)
	Regional	740	(41.0)	1333	(61.5)
	Distant	297	(16.4)	194	(9.0)
	Other	464	(25.7)	349	(16.1)

#Localised = code 'Localised'; Regional = codes Direct-extension, Regional lymph nodes involved, and both combined; Distant = codes Distant Metastasis, Too Advanced

*HCRs = Hospital Cancer Registries; PGI = Post-Graduate Institute; AMC = Assam Medical College; RCC = Regional Cancer Centre; KMIO = Kidwai Memorial Institute of Oncology; TMH = Tata Memorial Hospital; CI = Cancer Institute

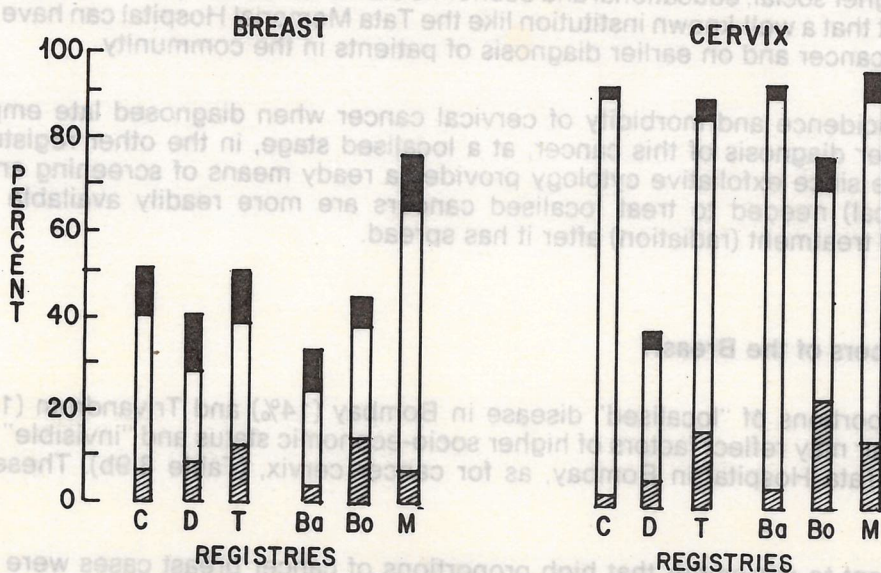
EXTENT OF DISEASE ALL CANCERS

NCRP (ICMR), 1984; HOSPITAL CANCER REGISTRIES



CANCERS OF BREAST AND CERVIX

NCRP (ICMR), 1984; HOSPITAL CANCER REGISTRIES



C = CHANDIGARH D = DIBRUGARH T = TRIVANDRUM
Ba = BANGALORE Bo = BOMBAY M = MADRAS
LOCALISED REGIONAL DISTANT

Fig. 3.8

3.9 EXTENT OF DISEASE—CANCERS OF THE CERVIX UTERI, BREAST, LARYNX & HYPOPHARYNX

3.9a Introduction:

In general, these organ sites are relatively more accessible to physical examination than internal organs like the lung, oesophagus, and stomach. Thus, clinical assessments of their disease spread are more likely to be valid.

Limitations, however, exist in these data. The use of various classification systems—eg. of the TNM for head & neck and breast cancers, of FIGO for cervical malignancies, and of AJCC categorisation for data analysis—is a major limiting factor in drawing interpretive conclusions. Correlations between the different systems are not clearcut, and AJCC guidelines, in general, include post-surgical pathologic assessment. Other limitations include the validity of the patients' previous treatment status. The frequencies of "Others" is generally higher for breast cancer patients than for cervical, probably because of readily available surgical therapy—still the sheet anchor of breast cancer treatment in India. By and large, few laryngeal & hypopharyngeal cancers are coded to "Other". Patients' previous treatment status will impact strongly on these data. Despite these caveats, data on extent of spread of these cancers is probably more valid than not.

3.9b (i) Cancer Cervix:

Larger proportions of Bombay (23%) and Trivandrum (16%) women are reported to have localised cervical cancer at diagnosis (Table 3.9b Fig. 3.8) than women from the other registries (2.5-13%).

The Trivandrum data in 1983 were similar (16% localised). Although TMH (HCR) data for 1983 are not available, even the undoubtedly less accurate Bombay population—registry data in 1983 showed, predominantly localised cervical cancer at diagnosis. If consistent, this may reflect the value of higher social, educational and economic status for women (as in Kerala and Bombay), and the impact that a well-known institution like the Tata Memorial Hospital can have, in creating awareness of cancer and on earlier diagnosis of patients in the community.

The high incidence and morbidity of cervical cancer when diagnosed late emphasise the need for earlier diagnosis of this cancer, at a localised stage, in the other registries. This is especially true since exfoliative cytology provides a ready means of screening and the skills (mostly surgical) needed to treat localised cancers are more readily available than those needed for its treatment (radiation) after it has spread.

3.9b (ii) Cancers of the Breast:

Higher proportions of "localised" disease in Bombay (14%) and Trivandrum (12%) women with this cancer may reflect factors of higher socio-economic status and "invisible" institutional effect of the Tata Hospital in Bombay, as for cancer cervix, (Table 3.9b). These data need validation.

It is important to remember that high proportions of cancer breast cases were categorised "Other"—from 50-60% in all the registries except Madras (26%)—(Table 3.9b), when interpreting these data. Another feature of note is the mostly regional and distantly spread disease at diagnosis. Thirdly, distantly metastasized disease is more frequent in breast than cervical cancer (ratios from 3-5:1) in all registries except Bombay, and regionally spread disease more frequent in cervical than breast (ratios from 1.5-4:1) in all registries. Both observations, if they hold over time, may reflect the different nature of these cancers and their response

TABLE-3.9b EXTENT OF DISEASE—CANCERS OF BREAST AND CERVIX: NCRP (ICMR), 1984, HCRs*

Registry	Category	Breast		Cervix	
		n	(%)	n	(%)
CHANDIGARH (PGI)*	Localised #	12	(7.2)	12	(2.5)
	Regional	58	(34.7)	425	(89.7)
	Distant	18	(10.8)	9	(1.9)
	Other	79	(47.3)	28	(5.9)
DIBRUGARH (AMC)*	Localised	3	(9.1)	3	(4.9)
	Regional	7	(21.2)	19	(30.6)
	Distant	4	(12.1)	2	(3.2)
	Other	19	(57.6)	38	(61.3)
TRIVANDRUM (RCC)*	Localised	34	(11.9)	73	(16.0)
	Regional	79	(27.6)	320	(70.0)
	Distant	30	(10.5)	15	(3.3)
	Other	143	(50.0)	49	(10.7)
BANGALORE (KMIO)*	Localised	12	(4.2)	33	(2.9)
	Regional	61	(21.3)	1027	(89.0)
	Distant	27	(9.4)	24	(2.1)
	Other	186	(65.0)	70	(6.1)
BOMBAY (TMH)*	Localised	138	(4.2)	379	(22.8)
	Regional	231	(23.8)	786	(47.3)
	Distant	62	(6.4)	108	(6.5)
	Other	541	(55.7)	387	(23.3)
MADRAS (CI)*	Localised	18	(5.9)	136	(13.2)
	Regional	176	(57.5)	782	(76.1)
	Distant	33	(10.8)	45	(4.4)
	Other	79	(25.8)	64	(6.2)

#Localised = code 'Localised'; Regional = codes 'Direct-extension, Regional lymph nodes involved', and both combined; Distant = codes 'Distant Metastasis, Too Advanced'

*HCRs = Hospital Cancer Registries; PGI = Post-Graduate Institute; AMC = Assam Medical College; RCC = Regional Cancer Centre; KMIO = Kidwai Memorial Institute of Oncology; TMH = Tata Memorial Hospital; CI = Cancer Institute

to different modalities of therapy. Strategies for their control should therefore be different. They may also reflect classification problems, since the FIGO and AJCC systems are different (section 3.3).

3.9c Cancers of the Larynx & Hypopharynx (Laryngopharynx):

Combining these cancers for Extent of Cancer analysis is appropriate for several reasons. They are in close anatomic proximity, with frequent extension of their cancers to the adjoining site, and infrequent early diagnosis. Their cancers are biologically similar in behaviour, esp. cancers of the "extrinsic larynx or supraglottis and subglottis" with cancers of the hypopharynx. Their spread to nuchal lymph nodes which are readily palpable suggests clinical extent of disease assessments may be valid although difficulties in assessing direct extension without direct laryngoscopy (which requires E.N.T. and anesthetic skills) may negatively balance this factor. Proportions of "Others" are not high.

The striking predominance of regionally spread cancers in the data, (Table 3.9c Fig. 3.9c) and few distantly spread or localised cancers at diagnosis correlates well with these cancers' behaviour. Data for "localized" cancers need validation. Efforts at earlier diagnosis and treatment may be worthwhile especially in areas of high incidence and prevalence eg. Bombay and Dibrugarh.

TABLE—3.9c EXTENT OF DISEASE—CANCER LARYNX AND HYPOPHARYNX: NCRP(ICMR), 1984, HCRs*

Registry	Category	Male		Female	
		n	(%)	n	(%)
CHANDIGARH (PGI)*	Localised #	8	(12.2)	5	(12.2)
	Regional	115	(87.1)	35	(85.4)
	Distant	2	(1.5)	—	—
	Other	7	(5.3)	1	(2.4)
DIBRUGARH (AMC)*	Localised	39	(22.4)	4	(25.0)
	Regional	53	(30.5)	8	(50.0)
	Distant	—	—	—	—
	Other	82	(47.1)	4	(25.0)
TRIVANDRUM (RCC)*	Localised	28	(14.7)	5	(25.0)
	Regional	140	(73.7)	14	(70.0)
	Distant	3	(1.6)	1	(5.0)
	Other	19	(10.0)	—	—
BANGALORE (KMIO)*	Localised	32	(9.0)	6	(11.8)
	Regional	285	(80.3)	42	(82.4)
	Distant	15	(4.2)	1	(2.0)
	Other	23	(6.5)	2	(3.9)
BOMBAY (TMH)*	Localised	127	(14.0)	25	(15.4)
	Regional	673	(74.0)	115	(71.0)
	Distant	27	(3.0)	6	(3.7)
	Other	82	(9.1)	16	(9.9)
MADRAS (CI)*	Localised	29	(14.1)	5	(10.2)
	Regional	132	(64.4)	34	(69.4)
	Distant	9	(4.4)	3	(6.1)
	Other	35	(17.1)	7	(14.3)

#Localised = code 'Localised'; Regional = codes 'Direct-extension, Regional lymph nodes involved' and both combined; Distant = codes 'Distant Metastasis, Too Advanced'

*HCRs = Hospital Cancer Registries; PGI = Post-Graduate Institute; AMC = Assam Medical College; RCC = Regional Cancer Centre; KMIO = Kidwai Memorial Institute of Oncology; TMH = Tata Memorial Hospital; CI = Cancer Institute

3.10 EXTENT OF DISEASE—CANCERS OF THE LUNG, OESOPHAGUS AND STOMACH

3.10 a Introduction:

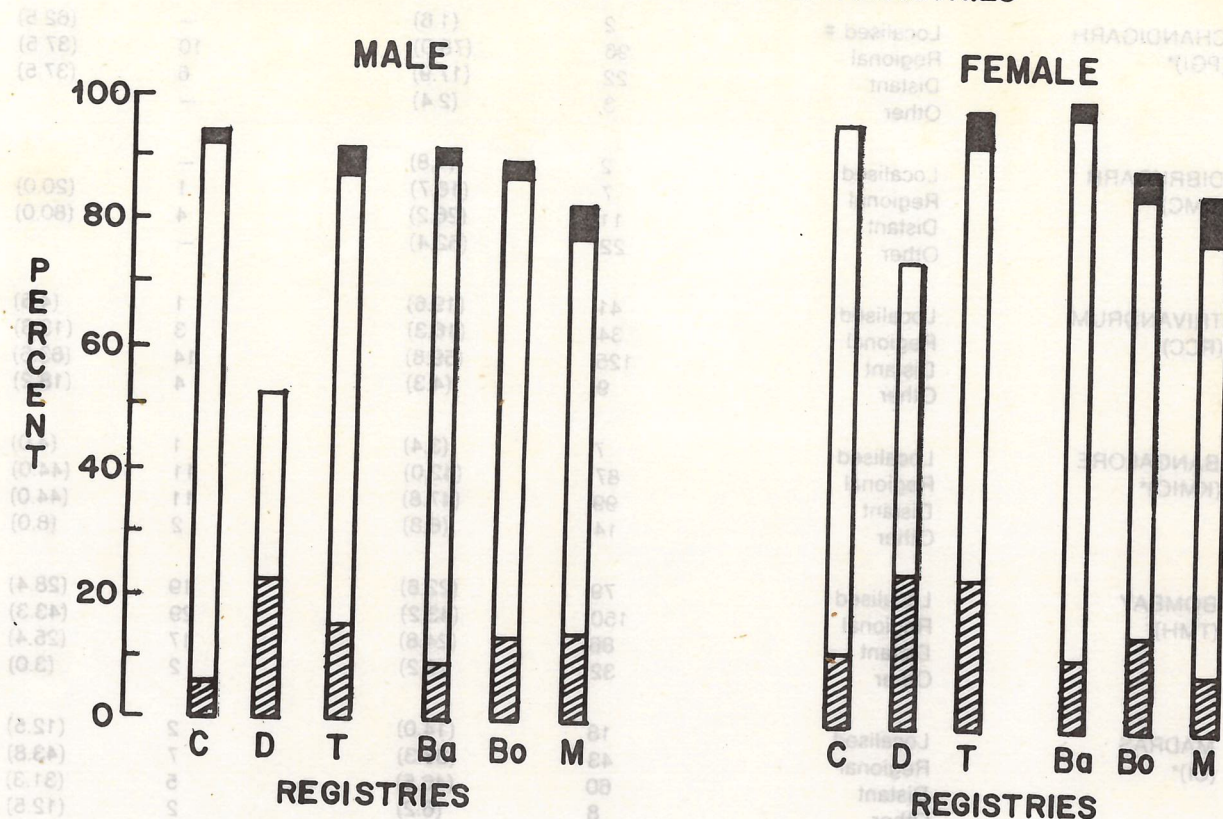
Cancers of these three organs are discussed together to project cancer extent information from organs which are relatively inaccessible to physical examination. This inaccessibility militates against an accurate assessment of disease extent without investigative procedures. Since the data question in the registry form at present focusses on clinical extent at first diagnosis, the data abstraction and biologic factors contradict each other. Further, AJCC categorisation is generally a post-surgical assessment, again a contradiction to a purely clinical evaluation. Cancers of these three sites are known for their late stages at diagnosis and poor survival. Factors in their data analysis will be briefly touched on and then discussed overall, focussing on oesophagus cancer.

3.10 b Cancer Lung:

Proportions of patients with this cancer classified as "Other" in the Extent of Disease tabulation are few (10% or less), except in Dibrugarh (Table 3.10b). Modes of assessing this cancer and diagnosing it are varied. Until we know the degree of such variations between registries and the two genders, EOD data on this cancer should be viewed cautiously. Most cancers are diagnosed late. Survival in the West remains poor despite advances in cytology, radiology and pathologic diagnostic methods.

EXTENT OF DISEASE CANCERS OF LARYNX AND HYPOPHARYNX

NCRP (ICMR), 1984; HOSPITAL CANCER REGISTRIES



C = CHANDIGARH

D = DIBRUGARH

T = TRIVANDRUM

Ba = BANGALORE

Bo = BOMBAY

M = MADRAS

LOCALISED

REGIONAL

DISTANT

Fig. 3.9C

"Localised" cancers are very few in all the registries except in Bombay (TMH) and Trivandrum, (Table 3.10b and Fig. 3.10). Over one-fifth male and one-fourth females in Bombay and one-fifth males in Trivandrum, are reportedly "Localised". It is unlikely these data would bear close scrutiny for the reasons mentioned above, (3.10a) and in sections 3.1-3.5.

3.10c Cancers of the Oesophagus:

Many factors affect the "extent" data of these cancers. They are known for their rapid spread, and hence are usually diagnosed late in the natural history of the disease. Various methods are employed in diagnosis and in assessing extent of spread. These vary from registry to registry, affecting the data reported. The absence of a serosal covering, and the rich lymphatic drainage to paraaortic and other intrathoracic groups of lymph nodes facilitate rapid dissemination of malignant cells and add to the difficulty of accurately documenting cancer spread, especially for mid-and-lower oesophageal neoplasms (the majority). Valid assessment of previous therapy is also needed; the proportions of "Other", (Table 3.10c) from 4 to 25% in males and from 1.4 to 26% in females (except in Dibrugarh where they are around 46-47% in males and females) are generally not high. All these limitations need to be kept in mind while interpreting the data.

TABLE—3.10b EXTENT OF DISEASE—CANCER LUNG: NCRP (ICMR), 1984, HCRs*

Registry	Category	Male		Female	
		n	(%)	n	(%)
CHANDIGARH (PGI)*	Localised #	2	(1.6)	—	(62.5)
	Regional	96	(78.0)	10	(37.5)
	Distant	22	(17.9)	6	(37.5)
	Other	3	(2.4)	—	
DIBRUGARH (AMC)*	Localised	2	(4.8)	—	
	Regional	7	(16.7)	1	(20.0)
	Distant	11	(26.2)	4	(80.0)
	Other	22	(52.4)	—	
TRIVANDRUM (RCC)*	Localised	41	(19.6)	1	(4.5)
	Regional	34	(16.3)	3	(13.6)
	Distant	125	(59.8)	14	(63.6)
	Other	9	(4.3)	4	(18.2)
BANGALORE (KMIO)*	Localised	7	(3.4)	1	(4.0)
	Regional	87	(42.0)	11	(44.0)
	Distant	99	(47.8)	11	(44.0)
	Other	14	(6.8)	2	(8.0)
BOMBAY (TMH)*	Localised	79	(22.8)	19	(28.4)
	Regional	150	(43.2)	29	(43.3)
	Distant	86	(24.8)	17	(25.4)
	Other	32	(9.2)	2	(3.0)
MADRAS (CI)*	Localised	18	(14.0)	2	(12.5)
	Regional	43	(33.3)	7	(43.8)
	Distant	60	(46.5)	5	(31.3)
	Other	8	(6.2)	2	(12.5)

Localised = code 'Localised'; Regional = codes 'Direct-extension, Regional lymph nodes involved', and both combined; Distant = codes 'Distant Metastasis, Too Advanced'

*HCRs = Hospital Cancer Registries; PGI = Post-Graduate Institute; AMC = Assam Medical College; RCC = Regional Cancer Centre; KMIO = Kidwai Memorial Institute of Oncology; TMH = Tata Memorial Hospital; CI = Cancer Institute

The data (Table 3.10c, Fig. 3.10) shows unexpectedly high proportions of patients of both genders in the "localised" category in Bombay (TMH), Dibrugarh (AMC), Madras (CI) and Trivandrum (RCC). For the reasons mentioned above, these figures are very unlikely to be valid. The data are not borne out by clinical experience*, neither are they substantiated by survival studies. Cancer oesophagus data exemplify the difficulty in requiring "clinical extent of disease" documentation without access to investigative/operative/pathologic evidence, and yet wanting to obtain valid extent of disease information.

It might be more accurate and appropriate to code cases where nodal status is not documented (eg. because it cannot be if a CT or surgical data are not available), as "EOD Unknown", rather than as "localised" which may be the situation at present.

Data from Chandigarh and Bangalore are more credible as the majority of patients are documented to be diagnosed after regional spread of disease.

These data also illustrate how important it is to educate the medical, data generating community as much as the nonmedical, data abstracting and processing community. These data may merely reflect inaccuracies in assessment of disease spread, as documented in patients' charts.

* Personal discussion, Dr. R. S. Rao, TMH.

EXTENT OF DISEASE, SELECTED CANCERS

NCRP (ICMR), 1984; HOSPITAL CANCER REGISTRIES

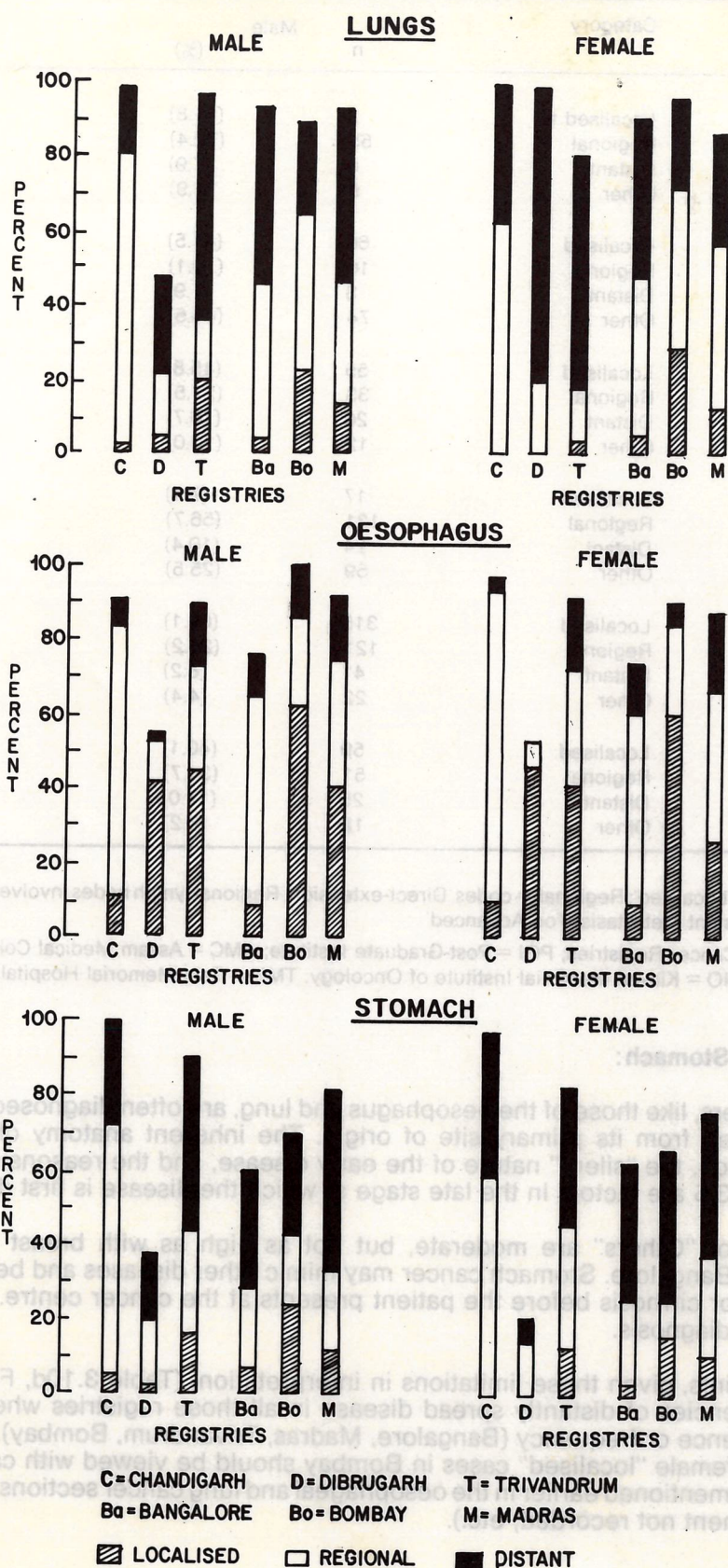


Fig. 3.10

TABLE—3.10c EXTENT OF DISEASE—CANCER OESOPHAGUS: NCRP (ICMR), 1984, HCRs*

Registry	Category	Male		Female	
		n	(%)	n	(%)
CHANDIGARH (PGI)*	Localised #	9	(11.8)	7	(10.0)
	Regional	55	(72.4)	59	(84.3)
	Distant	6	(7.9)	3	(4.3)
	Other	6	(7.9)	1	(1.4)
DIBRUGARH (AMC)*	Localised	66	(41.5)	26	(45.6)
	Regional	16	(10.1)	4	(7.0)
	Distant	3	(1.9)	—	—
	Other	74	(46.5)	27	(47.4)
TRIVANDRUM (RCC)*	Localised	55	(45.8)	15	(41.7)
	Regional	33	(27.5)	11	(30.6)
	Distant	20	(16.7)	7	(19.4)
	Other	12	(10.0)	3	(8.3)
BANGALORE (KMIO)*	Localised	17	(7.4)	18	(9.1)
	Regional	131	(56.7)	102	(51.8)
	Distant	24	(10.4)	25	(12.7)
	Other	59	(25.5)	52	(26.4)
BOMBAY (TMH)*	Localised	315	(63.1)	178	(61.6)
	Regional	121	(24.2)	72	(24.9)
	Distant	41	(8.2)	19	(6.6)
	Other	22	(4.4)	20	(6.9)
MADRAS (CI)*	Localised	59	(40.1)	16	(26.2)
	Regional	51	(34.7)	25	(41.0)
	Distant	25	(17.0)	13	(21.3)
	Other	12	(8.2)	7	(11.5)

Localised = code 'Localised'; Regional = codes 'Direct-extension, Regional lymph nodes involved', and both combined; Distant = codes 'Distant Metastasis, Too Advanced'

*HCRs = Hospital Cancer Registries; PGI = Post-Graduate Institute; AMC = Assam Medical College; RCC = Regional Cancer Centre; KMIO = Kidwai Memorial Institute of Oncology; TMH = Tata Memorial Hospital; CI = Cancer Institute

3.10d Cancer Stomach:

Gastric cancers, like those of the oesophagus and lung, are often diagnosed after the disease has disseminated from its primary site of origin. The inherent anatomy of the stomach, its "internal" location, the "silent" nature of the early disease, and the reasons mentioned earlier in sections 3.1-3.5 are factors in the late stage at which the disease is first diagnosed.

Proportions of "Others" are moderate, but not as high as with breast cancer except in Dibrugarh and Bangalore. Stomach cancer may mimic other diseases and be treated as peptic ulcer, gastritis or cirrhosis before the patient presents at the cancer centre. This too, may be a factor in late diagnosis.

The main points, given these limitations in interpretation, (Table 3.10d, Fig. 3.10) are, first, the high frequencies of distantly spread disease in all those registries where gastric cancer is high in incidence or frequency (Bangalore, Madras, Trivandrum, Bombay). Second, the 24% male and 16% female "localised" cases in Bombay should be viewed with caution for reasons similar to those mentioned earlier in the oesophageal and lung cancer sections (misclassification, previous treatment not recorded, etc.).

TABLE—3.10d EXTENT OF DISEASE—CANCER STOMACH: NCRP (ICMR), 1984, HCRs*

Registry	Category	Male		Female	
		n	(%)	n	(%)
CHANDIGARH (PGI)*	Localised #	2	(4.4)	—	
	Regional	30	(66.7)	10	(58.8)
	Distant	13	(28.9)	7	(41.2)
	Other	—		—	
DIBRUGARH (AMC)*	Localised	1	(1.9)	—	
	Regional	9	(17.0)	3	(14.3)
	Distant	9	(17.0)	1	(4.8)
	Other	34	(64.2)	17	(81.0)
TRIVANDRUM (RCC)*	Localised	15	(14.6)	6	(12.5)
	Regional	28	(27.2)	16	(33.3)
	Distant	47	(45.6)	18	(37.5)
	Other	13	(12.6)	8	(16.7)
BANGALORE (KMIO)*	Localised	7	(5.0)	1	(2.0)
	Regional	31	(22.3)	11	(22.4)
	Distant	43	(30.9)	18	(36.7)
	Other		(41.7)		(38.8)
BOMBAY (TMH)*	Localised	32	(23.7)	8	(15.7)
	Regional	16	(11.9)	5	(9.8)
	Distant	36	(26.7)	21	(41.2)
	Other	51	(37.8)	17	(33.3)
MADRAS (CI)*	Localised	17	(12.3)	5	(10.6)
	Regional	30	(21.7)	13	(27.7)
	Distant	66	(47.8)	18	(38.3)
	Other	25	(18.1)	11	(23.4)

#Localised = code 'Localised'; Regional = codes 'Direct-extension, Regional lymph nodes involved', and both combined; Distant = codes 'Distant Metastasis, Too Advanced'

*HCRs = Hospital Cancer Registries; PGI = Post-Graduate Institute; AMC = Assam Medical College; RCC = Regional Cancer Centre; KMIO = Kidwai Memorial Institute of Oncology; TMH = Tata Memorial Hospital; CI = Cancer Institute

3.11 SUMMARY AND CONCLUSION

The data item "Clinical Extent of Disease at First Diagnosis" was analysed under four groups of consolidated codes: 'Localised', 'Regionally Spread', 'Distantly Spread', and 'Other'. The last included cases coded "in situ, not palpable, not applicable, treated elsewhere, and unknown". Since the code "treated elsewhere" is yet to be printed on the hospital registry forms, it is possible some previously treated patients may not be included in the "other" category. Cross checking with the specific item on previous treatment and chart-abstract correlation might be two ways of checking on this data's quality.

Most cancers in India, as expected, are diagnosed after regional or distant spread of the disease. Chandigarh records the least (16%) in the "Other" group in males and with Madras, the least (16%) in females. Dibrugarh registers the most "Other" males (54%) and females (58.5%). The remaining registries range from 20-30% "Other" males and 23-36% for females. Breast cancer probably accounts for the higher frequencies of "Other" category patients in Bombay, and for lower male: female ratios of regionally and distantly spread disease in Bombay compared to Bangalore and Madras.

Cervical and breast cancers are more frequently diagnosed when "localised" in Bombay and Trivandrum females, an observation also made in 1983, but needing validation over time and by on-site review. Distant spread is more frequent in breast than cervical cancers except in Bombay, and regional spread more common in cervical than breast cancers, in all registries. Most laryngeal & hypopharyngeal cancers are diagnosed when regionally spread.

Data from anatomically less accessible organs like lung, oesophagus and stomach need validation especially for the implausibly high proportions of "localised" cancers. Gastric cancers are generally diagnosed after distant spread has occurred. All observations need validation over time and after registry-wide uniformity in classification and coding is ensured.

City	Localised	Regional	Distant	Other	Total
CHANDIGARH (PCI)	10 (55.6)	10 (55.6)	10 (55.6)	10 (55.6)	40 (222.4)
DIBRUGARH (AMC)	10 (55.6)	10 (55.6)	10 (55.6)	10 (55.6)	40 (222.4)
TRIVANDRUM (RCC)	10 (55.6)	10 (55.6)	10 (55.6)	10 (55.6)	40 (222.4)
BANGALORE (KMC)	10 (55.6)	10 (55.6)	10 (55.6)	10 (55.6)	40 (222.4)
BOMBAY (TMH)	10 (55.6)	10 (55.6)	10 (55.6)	10 (55.6)	40 (222.4)
MADRAS (CI)	10 (55.6)	10 (55.6)	10 (55.6)	10 (55.6)	40 (222.4)

* Localised = code Localised; Regional = codes Direct-extension, Regional lymph nodes involved, and both combined; Distant = codes Distant Metastasis, Too Advanced

* HCRs = Hospital Cancer Registries; PCI = Post-Graduate Institute; AMC = Assam Medical College; RCC = Regional Cancer Centre; KMC = Kidwai Memorial Institute of Oncology; TMH = Tata Memorial Hospital; CI = Cancer Institute

3.11 SUMMARY AND CONCLUSION

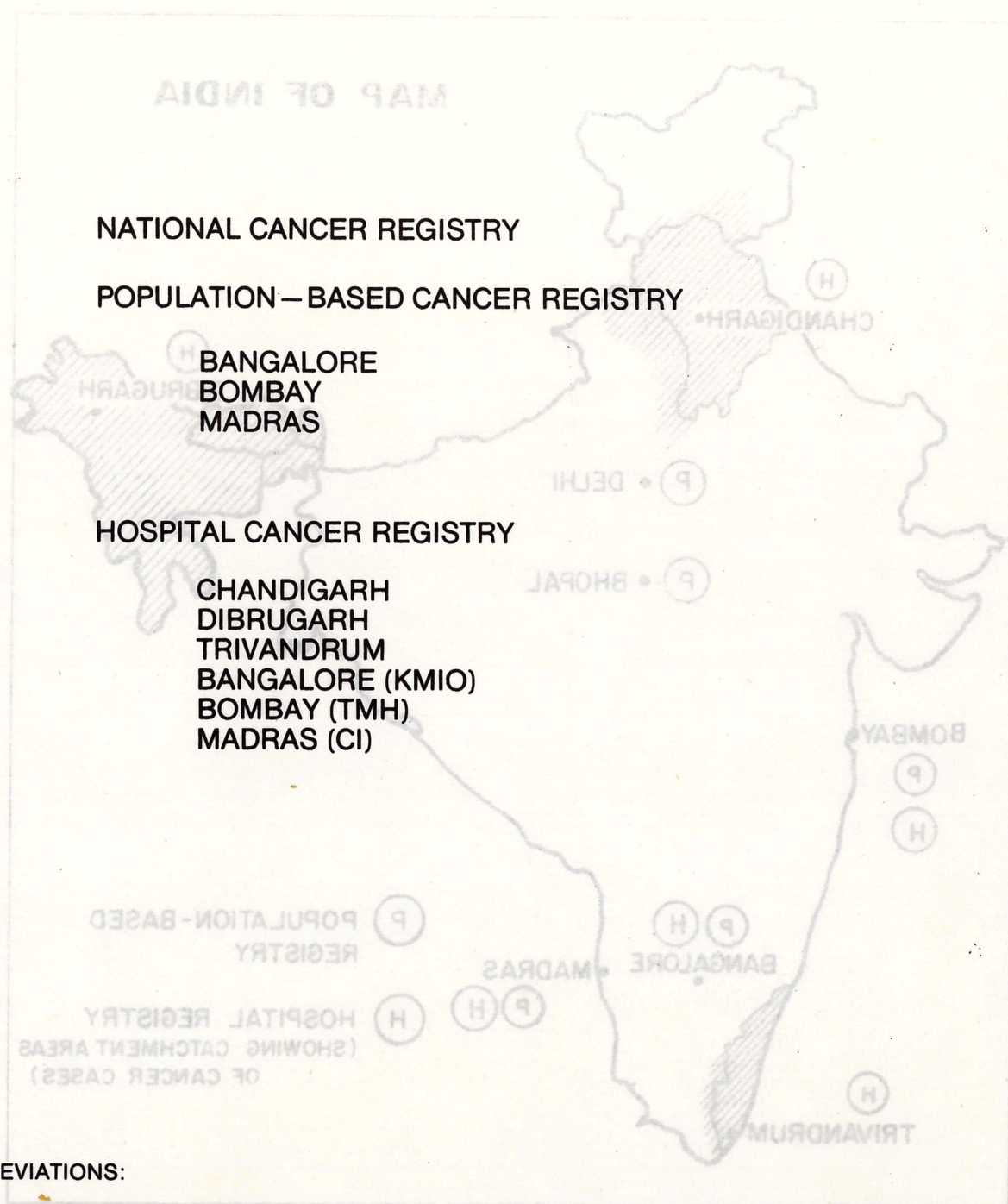
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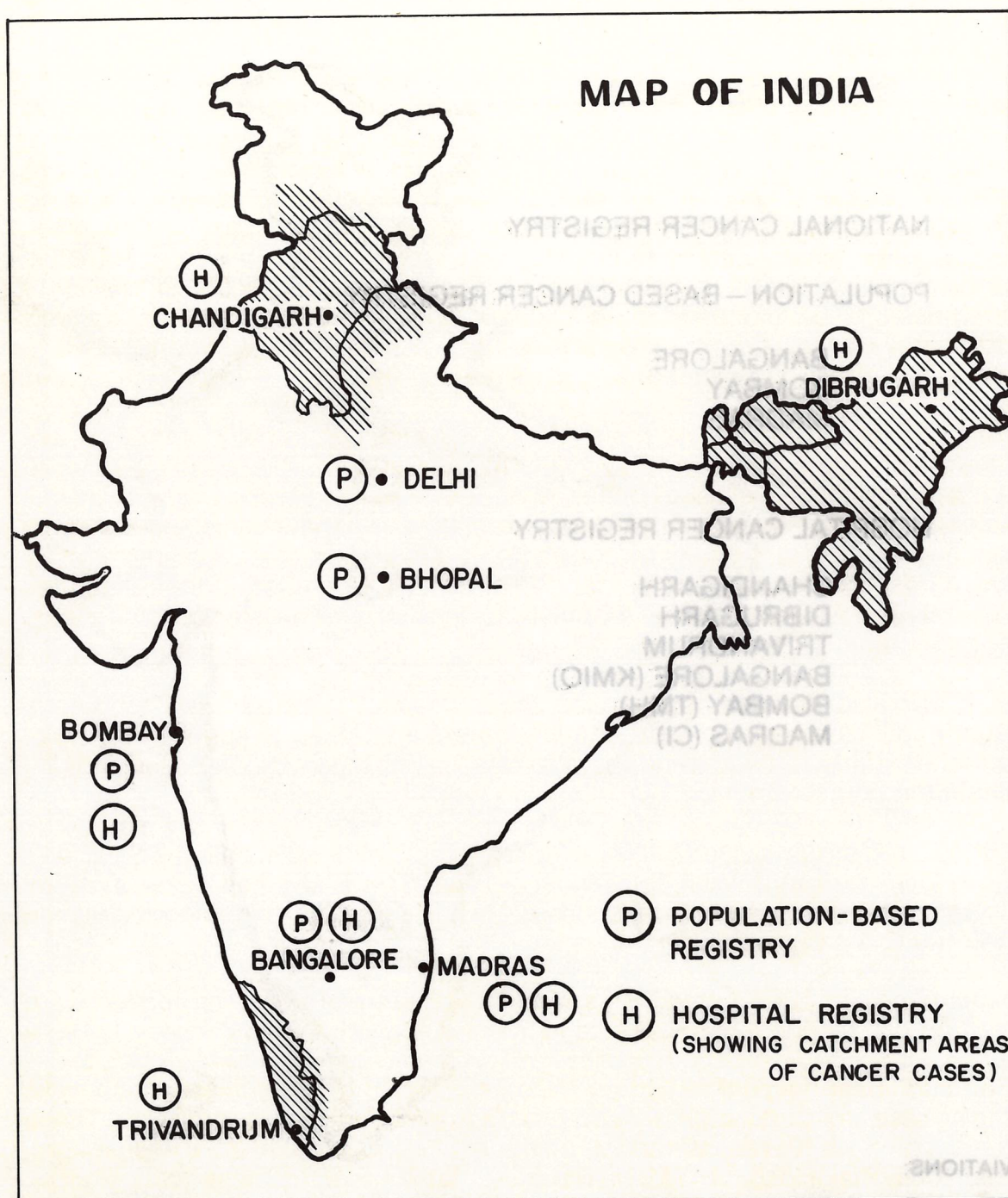
Most cancers in India, as expected, are diagnosed after regional or distant spread of the disease. Chandigarh records the least (16%) in the "Other" group in males and with Madras the least (16%) in females. Dibrugarh registers the most "Other" males (54%) and females (58.5%). The remaining registries range from 20-30% "Other" males and 23-36% for females. Breast cancer probably accounts for the higher frequencies of "Other" category patients in Bombay, and for lower male: female ratios of regionally and distantly spread disease in Bombay compared to Bangalore and Madras.

Cervical and breast cancers are more frequently diagnosed when "localised" in Bombay and Trivandrum females, an observation also made in 1983, but needing validation over time and by on-site review. Distant spread is more frequent in breast than cervical cancers except in Bombay, and regional spread more common in cervical than breast cancers, in all registries. Most laryngeal & hypopharyngeal cancers are diagnosed when regionally spread.

PART II

INDIVIDUAL REGISTRY DATA FOR 1984





LOCATION OF POPULATION-BASED AND HOSPITAL CANCER REGISTRIES IN INDIA.

NATIONAL CANCER REGISTRY

The National Cancer Registry is a Project of the Indian Council of Medical Research (ICMR). The Project was initiated in February, 1980 when ICMR formulated its new research policy in cancer research. An urgent need for strengthening the existing cancer registries and organising new cancer registries in different regions of the country, was recognized.

The immediate objectives of this Project are to provide reliable data on (i) morbidity rates in different regions of the country, (ii) incidence rates according to sex, age, anatomical site and histological types of cancer for selected sites, (iii) patterns of different types of cancer through ratio studies, in various population sub-groups taking into account religion, language, education and other variables, and (iv) stage of disease when patients come to hospital for treatment. The long-term objective of the project is, however, much wider in its scope. The Project is to provide a research base for development of appropriate strategies for all important aspects of a National Cancer Control Programme, viz. (i) primary prevention, (ii) early detection, (iii) effective treatment and (iv) survival rates.

With these objectives in view, the ICMR decided to support the Bombay Cancer Registry which was founded in 1963 by the Indian Cancer Society and to establish two additional population-based cancer registries in Bangalore and Madras. Criteria for selection of Bangalore and Madras centres were the ability and personal influence of the registry chiefs to coordinate a population-based cancer registry system; a hospital medical records department was in operation in their institutes for several years; availability of population census; and existence of a death reporting system.

The ICMR also decided to organise three hospital registries in Chandigarh, Dibrugarh and Trivandrum. These centres were selected as of special epidemiological interest and to encourage them to develop as a population-based registry system in the course of time.

All these registries started uniform collection of minimum data using a pre-designed core proforma from 1st January, 1982. The ICMR has made a liberal provision of staff for this purpose and has also arranged an ongoing programme for their training and continuing education.

As mentioned in 1983 Annual Report of NCRP, separate core proformas were adopted for use by population-based and hospital registries from January 1, 1984.

Three additional hospital registries were established at institutions which were serving as bases for population registries at Bangalore, Bombay and Madras. These institutions are (i) Kidwai Memorial Institute of Oncology (KMIO), Bangalore, (ii) Tata Memorial Hospital (TMH), Bombay, (iii) Cancer Institute (CI), Madras. This report includes the data of these additional hospital registries for the year 1984.

A new population-based registry has been established at Institute Rotary Cancer Hospital (IRCH), Delhi. A special cancer registry has also been set-up at Gandhi Medical College, Bhopal in the aftermath of the Bhopal gas tragedy. These new registries have started collecting data on cancer patients from January 1, 1986.

Map of India shows the location of these 11 registries, 5 PBCR and 6 HCR (page 38).

Cancer registration in India is active in that registry staff regularly have to go to original sources and often interview cancer patients to elicit desired information.

Cases are registered from the main cancer hospital, other general hospitals, and private nursing homes. Death certificates are also scrutinised. The information for each individual case has to be collected on a proforma. Each registry is required to register all cancer patients resident in the area, in its registration area of coverage, and seen in every hospital in the area. It is also required to copy all death certificates of residents dying within or outside the area on which cancer is mentioned. The three population-based registries commonly define 'resident' as persons who have been living in the defined area for one year or more.

All registries are required to report all malignant neoplasms in ICD-O and ICD-9. They are also asked to collect complete information about the extent of disease, diagnostic procedures and treatment at the reporting institution.

Each registry is required to consolidate all data concerning an individual cancer case, with the exception of duplicate information, into one record. These records are then sent to the Technical Wing of the National Cancer Registry, Bombay. After scrutinising the basic data so received for consistency by the Technical Wing, the data is subjected to quality control checks for legitimate codes, and processed, using a computer.

The Project is co-ordinated by an Operational Wing at the ICMR Headquarters office in New Delhi and a Technical Wing located at the Tata Memorial Hospital in Bombay. The Chiefs of the different registries with their senior staff, Technical and Operational Wing members, Steering Committee members and WHO Consultants, annually meet to discuss the progress of the Registry Project.

POPULATION-BASED CANCER REGISTRY: BANGALORE

The Bangalore population-based cancer registry was established at the Kidwai Memorial Institute of Oncology (KMIO) on the 1st August, 1981 as a joint project with the Indian Council of Medical Research. Regular compilation of data began from 1st January, 1982.

Bangalore, an urban agglomerate, is the Capital city of Karnataka State in the south of India, occupying an area of 191 sq.kms., between 12° 58' North and 77° 38' East. It has an altitude of 914.4 meters above sea level. The 1981 decennial census enumerated 2.91 million persons (52.8% males, 47.2% females), with a ratio of 894 females per 1000 males. Bangalore City experienced a decennial growth rate of 76.2%, one of the highest in the country. The literacy rate in the general population is 62.9% (69.2% males, 55.9% females). Major language groups in this cosmopolitan city are, Kannada, Tamil, Urdu and Telugu. Population consists of Hindus, Muslims, Christians, Jains and other religious communities.

Most educational and medical services have been concentrated in this area for a number of years. With 134 hospitals and nursing homes and 1131 general medical practitioners, the city has better medical facilities than the other regions. The Kidwai Memorial Institute of Oncology was established in 1973 by the Karnataka State Government. It has a bed strength for 190 cancer patients and provides cobalt-60 teletherapy treatment. The KMIO has well equipped pathology department and most cancer cases in Bangalore city are likely to be identified and confirmed here.

Most of the cancer cases are provided by the KMIO; cases are also obtained from various other hospitals and nursing homes in the city. Additional information for cancer cases is provided by ten corporation units including one main unit through death certificates.

Collection of data is carried out with the assistance of a Medical Officer, a Statistician and Social Investigators. Their main task is to check identity parameters with the patients themselves, particularly place of residence. The use of an index card helps in eliminating duplicates. There is a regular time table of visits to other hospitals by a field supervisor and social investigators. The data is mainly collected from medical records, pathology and radiology departments.

Dr. M. KRISHNA BHARGAVA, Project Chief
Dr. A. NANDA KUMAR, Senior Research Officer,
Mr. K. RAMACHANDRA REDDY, Bio-Statistician

POPULATION-BASED CANCER REGISTRY BANGALORE

SEX : MALES

YEAR : 1984

NUMBER OF INCIDENT CASES OF CANCER BY AGE AND SITE (ICD.9), AND PERCENTAGES

ICD.9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140	LIP	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2	0.21
141	TONGUE	0	0	0	0	0	0	1	1	2	0	0	4	3	6	1	1	0	24	2.48
142	SALIVARY GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
143	GUM	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	2	0	5	0.52
144	FLOOR OF MO	0	0	0	0	0	0	1	1	1	0	2	2	2	2	1	0	0	6	0.62
145	OTHER MOUTH	0	0	0	0	1	1	1	1	4	4	4	4	3	5	0	1	2	26	2.69
146	OROPHARYNX	0	0	0	0	0	0	0	0	0	1	1	1	1	7	4	3	0	18	1.86
147	NASOPHARYNX	0	0	0	0	0	0	0	0	0	0	1	1	2	1	1	3	0	7	0.72
148	HYPOPHARYNX	0	0	0	0	0	0	1	1	0	0	5	8	5	10	8	10	0	56	5.80
149	PHARYNX ETC	0	0	0	0	0	0	1	0	0	0	2	0	1	1	1	2	0	7	0.72
150	ESOPHAGUS	0	0	0	0	1	2	1	4	7	16	17	12	11	19	4	5	7	78	8.07
151	STOMACH	0	0	0	0	1	2	1	4	9	16	17	12	11	18	12	7	5	105	10.87
152	SMALL INTES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.10
153	COLON	0	0	0	0	0	0	0	0	3	3	3	4	2	4	2	2	0	24	2.48
154	RECTUM	0	0	0	0	2	1	0	4	3	3	3	4	4	2	3	1	0	25	2.59
155	LIVER	0	0	0	0	0	0	1	1	3	5	9	9	2	2	6	4	3	37	3.83
156	GALLBLADDER	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	2	0.21
157	PANCREAS	0	0	0	0	0	0	0	0	0	0	3	3	0	1	1	0	0	8	0.83
158	RETROPERITO	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	5	0.52
159	OTHER DIG S	0	0	0	0	1	0	0	0	0	1	1	2	1	1	0	1	0	6	0.62
160	NASAL CAVIT	0	0	0	0	0	0	1	0	0	0	4	5	4	5	5	2	4	32	3.31
161	LARYNX	0	0	0	0	0	0	0	0	2	4	8	15	13	17	12	6	0	83	8.59
162	LUNG	0	0	0	0	0	0	1	0	5	5	1	0	0	0	0	1	0	2	0.21
163	PLEURA	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.10
164	THYMUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
165	OTHER RES S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	BONE	0	0	0	2	3	2	1	0	0	0	0	1	0	1	1	0	0	11	1.14
171	CONNECTIVE	0	0	0	0	0	0	0	0	1	1	1	4	0	0	3	0	0	17	1.76
172	SKIN MELANO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
173	SKIN OTHER	0	0	0	0	0	0	0	0	2	0	1	1	2	2	2	4	0	15	1.55
175	BREAST MALE	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	3	0.31
185	PROSTATE	0	0	0	0	0	0	0	0	0	0	1	1	1	10	3	7	11	34	3.52
186	TESTIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	1.14
187	PENIS ETC	0	0	0	0	0	0	0	0	1	3	3	3	1	1	4	1	0	18	1.86
188	URI BLADDER	0	0	0	0	0	0	0	0	0	3	2	2	5	3	3	4	0	23	2.38
189	KIDNEY	3	0	0	0	0	0	0	0	0	0	1	1	1	3	0	0	0	10	1.04
190	EYE	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.10
191	BRAIN	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	12	1.24
192	NERVOUS SYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.41
193	THYROID GLA	0	0	1	1	1	1	1	1	0	0	1	1	0	1	0	0	0	6	0.62
194	OTH ENDO GL	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.21
195	ILL DEF SIT	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	3	0	8	0.83
196	SEC LYMPH N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
197	SEC RES ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
198	SEC OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
199	PRIM UNK	2	3	1	0	1	4	3	3	6	14	13	8	8	20	7	13	9	107	11.08
200	LYMPHOSARCO	2	3	2	2	2	3	0	0	0	2	2	0	1	2	1	2	0	23	2.38
201	HODGKINS DI	0	3	0	0	1	3	2	1	1	0	2	1	1	2	0	0	0	16	1.66
202	OTH LYMPHOM	0	6	3	0	0	0	1	1	0	0	3	2	2	2	1	1	0	24	2.48
203	MULT MYELOM	0	0	0	0	0	0	0	0	0	0	4	3	1	2	0	0	0	12	1.24
204	LEUK LYMPHA	4	3	1	1	4	1	0	0	0	0	3	3	1	1	0	1	0	18	1.86
205	LEUK MYELOI	0	2	2	1	0	0	1	2	3	3	0	0	0	1	1	0	0	16	1.66
206	LEUK MONOCY	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.31
207	LEUK OTH SP	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
208	LEUK UNS	0	0	0	1	0	1	0	0	0	1	2	0	0	0	0	0	0	5	0.52
TOTAL		15	21	15	18	24	25	18	40	57	108	130	93	154	91	79	78	0	966	100.00

NUMBER OF INCIDENT CASES OF CANCER BY AGE AND SITE (ICD.9), AND PERCENTAGES

ICD.9 SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140 LIP	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	3	0.25
141 TONGUE	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	11	0.93
142 SALIVARY GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.51
143 GUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	1.78
144 FLOOR OF MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.17
145 OTHER MOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	4.67
146 OROPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.25
147 NASOPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1.02
148 HYPOPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
149 PHARYNX ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	6.88
150 ESOPHAGUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	3.90
151 STOMACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0.93
152 SMALL INTES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	2.04
153 COLON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0.59
154 RECTUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
155 LIVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
156 GALLBLADDER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
157 PANCREAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
158 RETROPERITO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
159 OTHER DIG S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
160 NASAL CAVIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
161 LARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
162 LUNG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	1.53
163 PLEURA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.25
164 THYMUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
165 OTHER RES S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170 BONE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	1.27
171 CONNECTIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0.76
172 SKIN MELANO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.42
173 SKIN OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	1.36
174 BREAST FEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	184	15.62
179 UTERUS UNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1.02
180 CERVIX UTER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	287	24.36
181 PLACENTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
182 BODY UTERUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1.02
183 OVARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	4.67
184 VAGINA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0.93
188 UTR BLADDER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.42
189 KIDNEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
190 EYE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	1.44
191 BRAIN	2	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	3.14
192 NERVOUS SYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08
193 THYROID GLA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.25
194 OTH ENDO GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
195 ILL DEF SIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
196 SEC LYMPH N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
197 SEC RES ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
198 SEC OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
199 PRIM UNK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	126	10.70
200 LYMPHOSARCO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0.76
201 HODGKINS DI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.34
202 OTH LYMPHOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.42
203 MULT MYELOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.51
204 LEUK LYMPHA	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0.59
205 LEUK MYELOI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1.10
206 LEUK MONOCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
207 LEUK OTH SP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
208 LEUK UNS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.17
TOTAL	5	9	5	10	22	42	61	77	131	136	170	136	156	104	64	50	0	1178	100.00

POPULATION-BASED CANCER REGISTRY BANGALORE

SEX : MALES

YEAR : 1984

AGE-SPECIFIC, WORLD AGE ADJUSTED AND TRUNCATED AGE ADJUSTED (35-64 YEARS) - INCIDENCE RATE PER 100,000 PERSONS

ICD-9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	CR	AAR	TCR
140	LIP	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
141	TONGUE	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	2.3	0.0	6.9	9.1	17.5	38.8	7.1	0.0	1.4	3.0	5.2
142	SALIVARY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143	GUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	6.5	7.1	14.5	0.3	0.7	0.3
144	FLOOR OF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.3	1.7	0.0	5.8	6.5	0.0	0.0	0.3	0.6	1.5
145	OTHER MOUTH	0.0	0.0	0.0	0.0	0.5	0.0	0.8	0.9	4.5	5.4	6.9	9.1	14.6	0.0	7.1	14.5	1.5	2.5	6.3
146	OROPHARYNX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.7	3.0	20.4	25.9	7.1	21.7	1.0	2.5	3.6
147	NASOPHARYNX	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	1.3	1.7	6.0	2.9	0.0	7.1	0.0	0.4	0.7	1.7
148	HYPOPHARYNX	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.1	6.7	13.9	15.1	29.2	51.8	56.8	72.3	3.3	7.1	9.5
149	PHARYNX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	3.0	3.0	2.9	6.5	0.0	14.5	0.4	0.9	1.3
150	ESOPHAGUS	0.0	0.0	0.0	0.5	0.0	0.5	0.8	3.6	7.9	9.4	20.8	33.2	55.5	25.9	35.5	50.6	4.5	8.4	18.9
151	STOMACH	0.0	0.0	0.0	0.6	1.0	1.3	0.8	3.6	10.2	21.6	29.5	33.2	52.6	77.7	49.7	36.1	6.1	11.4	22.7
152	SMALL INT	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
153	COLON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.3	4.0	6.9	6.0	11.7	12.9	14.2	1.4	2.6	5.1
154	RECTUM	0.0	0.0	0.0	0.0	1.0	0.6	0.0	3.6	3.4	4.0	1.7	12.1	5.8	6.5	21.3	7.2	1.5	2.4	4.7
155	LIVER	0.0	0.0	0.0	0.6	0.0	0.0	0.8	0.9	3.4	6.7	15.6	6.0	5.8	38.8	28.4	21.7	2.2	4.2	6.2
156	GALLBLADDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	2.9	0.0	0.0	0.0	0.1	0.2	0.6
157	PANCREAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	5.2	0.0	2.9	6.5	0.0	0.0	0.5	0.8	2.0
158	RETROPERITONEUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	3.5	0.0	0.0	0.0	14.2	0.0	0.3	0.5	0.7
159	OTHER DIGESTIVE	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	1.3	0.0	6.0	2.9	0.0	0.0	7.2	0.3	0.6	1.4
160	NASAL CAV	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.0	0.0	0.0	1.7	0.0	5.8	0.0	7.1	0.0	0.3	0.6	1.0
161	LARYNX	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	2.3	5.4	8.7	12.1	14.6	32.4	14.2	28.9	1.9	3.8	6.3
162	LUNG	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	5.6	10.8	26.1	39.3	49.6	77.7	42.6	43.4	4.8	9.9	18.9
163	PLEURA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	7.1	0.0	0.1	0.2	0.3
164	THYMUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4
165	OTHER RES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	BONE	0.0	0.0	1.1	1.7	1.0	0.6	0.0	0.0	0.0	1.3	6.9	0.0	2.9	6.5	0.0	0.0	0.6	0.8	0.7
171	CONNECTIV	0.0	0.0	0.5	0.0	2.1	0.6	0.0	1.8	1.1	1.3	0.0	0.0	0.0	0.0	19.4	0.0	1.0	1.5	1.9
172	SKIN MELA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173	SKIN OTHE	0.0	0.0	0.0	0.6	0.0	0.0	0.0	1.8	0.0	1.3	1.7	6.0	5.8	6.5	7.1	28.9	0.9	1.7	2.4
175	BREAST MA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.8
185	PROSTATE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.3	1.7	0.0	29.2	19.4	49.7	79.5	2.0	4.6	4.5
186	TESTIS	0.0	0.0	0.0	1.1	0.5	1.3	0.0	0.9	0.0	1.3	1.7	0.0	0.0	19.4	0.0	0.0	0.6	1.0	0.7
187	PENIS ETC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.4	4.0	5.2	3.0	2.9	25.9	7.1	7.2	1.0	2.1	3.2
188	URI BLADD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	2.7	3.5	15.1	8.8	19.4	28.4	7.2	1.3	2.8	4.8
189	KIDNEY	1.4	0.5	0.0	0.0	0.5	0.0	0.0	0.0	1.1	0.0	1.7	3.0	8.8	0.0	0.0	0.0	0.6	0.8	2.0
190	EYE	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
191	BRAIN	0.5	0.0	0.0	0.6	0.0	0.0	0.8	2.7	0.0	2.7	0.0	9.1	2.9	0.0	0.0	0.0	0.7	1.0	2.6
192	NERVOUS S	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.0	0.0	1.3	0.0	0.0	0.0	0.0	7.1	0.0	0.2	0.3	0.3
193	THYROID G	0.0	0.0	0.5	0.6	0.5	0.6	0.0	0.0	0.0	0.0	1.7	0.0	2.9	0.0	0.0	0.0	0.3	0.4	0.7
194	OTH ENDO	0.5	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
195	ILL DEF S	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.9	0.0	0.0	1.7	3.0	0.0	0.0	0.0	0.0	0.5	0.8	0.8
196	SEC LYMPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
197	SEC RES E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
198	SEC OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
199	PRIM UNK	0.9	1.3	0.5	0.0	0.5	2.6	2.4	2.7	6.8	18.9	22.6	24.2	58.4	45.3	92.3	65.1	6.2	11.3	19.8
200	LYMPHOSAR	0.9	1.3	1.1	1.1	1.0	1.9	0.0	0.9	0.0	2.7	0.0	3.0	5.8	6.5	14.2	0.0	1.3	1.7	1.8
201	HODGKINS	0.0	1.3	0.0	0.0	0.5	1.9	1.6	0.9	1.1	1.3	3.5	3.0	0.0	0.0	7.1	0.0	0.9	1.1	1.6
202	OTH LYMPH	0.0	2.7	1.6	0.0	1.0	0.0	0.8	0.9	0.0	4.0	3.5	6.0	5.8	6.5	7.1	0.0	1.4	1.8	3.0
203	MULT MYEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.2	6.0	5.8	0.0	0.0	0.0	7.2	0.7	1.2
204	LEUK LYMP	1.9	1.3	0.5	2.2	0.5	0.0	0.0	0.0	0.0	1.3	5.2	3.0	0.0	0.0	0.0	0.0	1.0	1.1	1.5
205	LEUK MYEL	0.0	0.9	1.1	0.6	0.0	0.0	0.8	1.8	3.4	4.0	0.0	0.0	2.9	0.0	7.1	0.0	0.9	1.1	2.2
206	LEUK MONO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
207	LEUK OTH	0.0	0.4	0.5	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0
208	LEUK UNS	0.0	0.0	0.0	0.6	0.0	0.6	0.0	0.0	0.0	1.3	3.5	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.8
TOTAL		7.0	9.4	8.1	10.0	12.5	16.2	14.3	35.7	64.3	145.6	225.9	281.0	449.7	589.0	561.1	563.8	56.3	102.0	178.3

AGE-SPECIFIC, WORLD AGE ADJUSTED AND TRUNCATED AGE ADJUSTED (35-64 YEARS) - INCIDENCE RATE PER 100,000 PERSONS

ICD-9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	CR	AAR	TCR
140	LIP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.2	0.0	3.4	0.0	0.0	0.0	0.2	0.4	1.2
141	TONGUE	0.0	0.0	0.0	0.6	0.0	0.0	2.0	0.0	1.5	3.9	2.2	0.0	0.0	6.9	15.1	7.1	0.7	1.3	1.4
142	SALIVARY	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	3.1	0.0	0.0	3.9	0.0	0.0	7.6	7.1	0.4	0.7	1.1
143	GUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	7.9	13.2	15.7	6.9	13.9	15.1	0.0	1.4	2.8	6.9
144	FLOOR OF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	7.1	0.1	0.3	0.5
145	OTHER MOUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	4.6	9.8	8.8	39.3	58.2	48.6	22.7	14.2	3.6	7.7	17.4
146	OROPHARYNX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.2	0.0	0.0	0.0	0.0	7.1	0.2	0.4	0.7
147	NASOPHARYNX	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.5	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.2	0.3	0.8
148	HYPOPHARYNX	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	2.2	7.9	6.9	27.8	0.0	0.0	0.8	1.8	2.6
149	PHARYNX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	ESOPHAGUS	0.0	0.0	0.0	0.0	0.0	0.7	2.0	3.3	12.3	25.5	19.8	35.4	37.7	55.6	60.6	64.0	5.3	10.7	20.6
151	STOMACH	0.0	0.0	0.0	0.0	0.6	0.0	2.0	2.2	7.7	11.8	15.4	11.8	20.6	34.7	37.8	28.4	3.0	5.9	10.9
152	SMALL INT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.9	0.0	0.0	0.1	0.3	0.4
153	COLON	0.0	0.0	0.0	0.0	0.6	0.0	0.0	1.1	0.0	0.0	6.6	7.9	3.4	6.9	0.0	14.2	0.7	1.4	2.7
154	RECTUM	0.0	0.0	0.0	0.0	0.0	0.7	0.0	3.3	4.6	2.0	4.4	11.8	17.1	20.8	7.6	14.2	1.6	3.1	6.4
155	LIVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.0	6.6	0.0	0.0	6.9	0.0	0.0	0.5	0.8	1.7
156	GALLBLADDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.3	0.5	1.5
157	PANCREAS	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	1.5	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.7
158	RETROPERITONEUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	2.2	0.0	3.4	6.9	15.1	0.0	0.4	0.9	1.1
159	OTHER DIGESTIVE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.0	2.2	0.0	0.0	6.9	0.0	7.1	0.3	0.7	1.0
160	NASAL CAVITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3
161	LARYNX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	3.4	0.0	7.6	0.0	0.3	0.6	1.5
162	LUNG	0.0	0.0	0.0	0.0	0.7	0.0	0.0	1.1	1.5	0.0	8.8	0.0	13.7	6.9	15.1	28.4	1.2	2.3	3.7
163	PLEURA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	13.9	0.0	0.0	0.2	0.6	0.4
164	THYMUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	OTHER RESPIRATORY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	BONE	0.0	0.0	0.0	0.0	1.2	1.4	1.0	1.1	0.0	3.9	4.4	3.9	6.9	6.9	7.6	0.0	1.0	1.6	3.1
171	CONNECTIVE TISSUE	0.0	0.0	0.0	0.0	0.0	0.7	1.0	0.0	3.1	2.0	2.2	3.9	6.9	0.0	0.0	0.0	0.6	1.0	2.7
172	SKIN	0.0	0.0	0.5	0.6	0.0	0.0	0.0	0.0	1.5	2.0	8.8	3.9	10.3	20.8	0.0	21.3	1.0	2.3	3.9
173	SKIN OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.0	8.8	3.9	10.3	20.8	0.0	21.3	1.0	2.3	3.9
174	BREAST	0.0	0.0	0.0	0.0	1.8	8.5	9.0	25.4	38.4	49.1	68.3	82.5	58.2	62.5	53.0	14.2	12.0	20.4	51.0
179	UTERUS	0.0	0.0	0.0	0.0	0.6	0.0	2.0	0.0	0.0	3.9	2.2	3.9	0.0	6.9	15.1	14.2	0.8	1.5	1.6
180	CERVIX	0.0	0.0	0.0	0.0	1.8	4.3	22.1	29.8	64.5	78.6	90.4	153.2	102.8	180.6	37.8	42.6	18.7	34.0	81.1
181	PLACENTA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
182	BODY UTERI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	8.8	3.9	6.9	6.9	22.7	0.0	0.8	1.6	3.1
183	OVARY	0.0	0.5	0.0	1.8	2.4	1.4	3.0	3.3	9.2	21.6	4.4	7.9	20.6	69.5	15.1	0.0	3.6	6.5	11.0
184	VAGINA	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	3.1	2.0	4.4	0.0	13.7	6.9	0.0	0.0	0.7	1.3	3.5
188	URI BLADDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.2	0.0	0.0	13.9	7.6	0.0	0.3	0.8	0.7
189	KIDNEY	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	7.6	0.0	0.3	0.5	0.7
190	EYE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
191	BRAIN	0.9	1.8	1.6	0.0	0.6	0.7	1.0	1.1	3.1	0.0	2.2	0.0	3.4	0.0	0.0	0.0	1.1	1.1	1.6
192	NERVOUS SYSTEM	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
193	THYROID	0.0	0.0	0.5	1.2	1.2	1.4	2.0	1.1	10.8	3.9	4.4	7.9	17.1	20.8	22.7	21.3	2.4	4.2	7.0
194	OTH ENDOCRINE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
195	ILL DEF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.9	0.0	0.0	0.0	0.0	0.2	0.3	0.9
196	SEC LYMPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
197	SEC RES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
198	SEC OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
199	PRIM UNK	0.0	0.5	0.0	1.2	1.2	0.7	6.0	4.4	12.3	15.7	57.3	78.6	85.6	55.6	75.7	35.5	8.2	15.9	36.7
200	LYMPHOSAR	0.0	0.0	0.0	0.0	0.0	0.7	1.0	0.0	1.5	2.0	0.0	3.9	6.9	0.0	15.1	7.1	0.6	1.1	2.1
201	HODGKINS	0.0	0.0	0.0	0.6	0.0	0.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.4
202	OTH LYMPH	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	7.9	3.4	0.0	0.0	0.0	0.3	0.6	1.8
203	MULT MYELOMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	2.2	11.8	0.0	6.9	0.0	0.0	0.4	0.9	2.1
204	LEUK LYMPH	0.5	0.5	0.0	0.0	0.0	0.7	1.0	1.1	0.0	2.0	0.0	0.0	3.4	0.0	0.0	0.0	0.5	0.5	1.0
205	LEUK MYELOMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.6	0.0	4.4	3.9	0.0	0.0	0.0	0.0	0.8	1.1	2.3
206	LEUK MONOCLONAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
207	LEUK OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
208	LEUK UNSPECIFIED	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4
TOTAL		2.3	4.1	2.7	6.1	13.4	29.8	61.2	84.9	201.2	267.1	374.6	534.4	534.3	722.5	484.4	355.3	76.6	141.8	305.4

YEAR : 1984

SEX : MALE

POPULATION-BASED CANCER REGISTRY BANGALORE

INCIDENT CASES OF CANCER BY MOST VALID BASIS OF DIAGNOSIS AND SITE (ICD-9)

ICD 9TH	SITE	MICROSCOPIC		X-RAY		CLINICAL ONLY		OTHERS		D.C.O.		TOTALS	
		n	%	n	%	n	%	n	%	n	%	n	%
140	LIP	2	100.00	0	0.00	0	0.00	0	0.00	0	0.00	2	100.00
141	TONGUE	22	91.67	0	0.00	2	8.33	0	0.00	0	0.00	24	100.00
142	SALIVARY GLANDS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
143	GUM	5	100.00	0	0.00	0	0.00	0	0.00	0	0.00	5	100.00
144	FLOOR OF MOUTH	6	100.00	0	0.00	0	0.00	0	0.00	0	0.00	6	100.00
145	OTHER MOUTH	25	96.15	0	0.00	1	3.85	0	0.00	0	0.00	26	100.00
146	OROPHARYNX	17	94.44	1	5.56	0	0.00	0	0.00	0	0.00	18	100.00
147	NASOPHARYNX	6	85.71	0	0.00	1	14.29	0	0.00	0	0.00	7	100.00
148	HYPOPHARYNX	48	85.71	1	1.79	5	8.93	0	0.00	2	3.57	56	100.00
149	PHARYNX ETC	4	57.14	0	0.00	0	0.00	0	0.00	3	42.86	7	100.00
150	ESOPHAGUS	50	64.10	21	26.92	3	3.85	0	0.00	4	5.13	78	100.00
151	STOMACH	65	61.90	4	3.81	18	17.14	1	0.95	17	16.19	105	100.00
152	SMALL INTESTINE	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00
153	COLON	18	75.00	0	0.00	2	8.33	0	0.00	4	16.67	24	100.00
154	RECTUM	19	76.00	1	4.00	3	12.00	0	0.00	2	8.00	25	100.00
155	LIVER	24	64.86	3	8.11	0	0.00	0	0.00	10	27.03	37	100.00
156	GALLBLADDER	2	100.00	0	0.00	0	0.00	0	0.00	0	0.00	2	100.00
157	PANCREAS	4	50.00	0	0.00	0	0.00	0	0.00	2	25.00	8	100.00
158	RETROPERITONEUM	4	80.00	0	0.00	0	0.00	0	0.00	1	20.00	5	100.00
159	OTHER DIG SYS	5	83.33	0	0.00	0	0.00	0	0.00	1	16.67	6	100.00
160	NASAL CAVITY	5	83.33	0	0.00	0	0.00	0	0.00	1	16.67	6	100.00
161	LARYNX	23	71.88	0	0.00	5	15.63	0	0.00	4	12.50	32	100.00
162	LUNG	59	71.08	10	12.05	2	2.41	0	0.00	12	14.46	83	100.00
163	PLEURA	1	50.00	0	0.00	0	0.00	0	0.00	1	50.00	2	100.00
164	THYMUS	2	100.00	0	0.00	0	0.00	0	0.00	0	0.00	2	100.00
165	OTHER RES SYS	11	100.00	0	0.00	0	0.00	0	0.00	0	0.00	11	100.00
170	BONE	16	94.12	0	0.00	0	0.00	0	0.00	1	5.88	17	100.00
171	CONNECTIVE TIS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
172	SKIN MELANOMA	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
173	SKIN OTHER	2	66.67	0	0.00	1	33.33	0	0.00	0	0.00	3	100.00
175	BREAST MALE	20	58.82	1	2.94	7	20.59	0	0.00	6	17.65	34	100.00
185	PROSTATE	8	72.73	0	0.00	2	18.18	0	0.00	0	0.00	11	100.00
186	TESTIS	13	72.22	0	0.00	4	22.22	0	0.00	0	0.00	18	100.00
187	PENIS ETC	15	65.22	0	0.00	5	21.74	0	0.00	3	13.04	23	100.00
188	URI BLADDER	9	90.00	0	0.00	0	0.00	0	0.00	1	10.00	10	100.00
189	KIDNEY	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00
190	EYE	12	100.00	0	0.00	0	0.00	0	0.00	0	0.00	12	100.00
191	BRAIN	3	75.00	0	0.00	0	0.00	0	0.00	1	25.00	4	100.00
192	NERVOUS SYS	4	66.67	0	0.00	2	33.33	0	0.00	0	0.00	6	100.00
193	THYROID GLAND	2	100.00	0	0.00	0	0.00	0	0.00	0	0.00	2	100.00
194	OTH ENDO GLDS	7	87.50	0	0.00	0	0.00	0	0.00	1	12.50	8	100.00
195	ILL DEF SITES	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
196	SEC LYMPH NODES	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
197	SEC RES ETC	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
198	SEC OTHER	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
199	PRIM UNK	31	28.97	0	0.00	0	0.00	0	0.00	76	71.03	107	100.00
200	LYMPHOSARCOMA	23	100.00	0	0.00	0	0.00	0	0.00	0	0.00	23	100.00
201	HODGKINS DIS	14	87.50	0	0.00	0	0.00	0	0.00	2	12.50	16	100.00
202	OTH LYMPHOMA	17	70.83	0	0.00	1	4.17	0	0.00	6	25.00	24	100.00
203	MULT MYELOMA	12	100.00	0	0.00	0	0.00	0	0.00	0	0.00	12	100.00
204	LEUK LYMPHATIC	14	77.78	0	0.00	0	0.00	0	0.00	4	22.22	18	100.00
205	LEUK MYELOID	14	87.50	0	0.00	0	0.00	0	0.00	2	12.50	16	100.00
206	LEUK MONOCYTIC	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
207	LEUK OTH SPE	3	100.00	0	0.00	0	0.00	0	0.00	0	0.00	3	100.00
208	LEUK UNS	3	60.00	0	0.00	0	0.00	0	0.00	2	40.00	5	100.00
ALL SITES TOTALS		686		42		66		1		171		966	
		71		4		6		0		17		100	

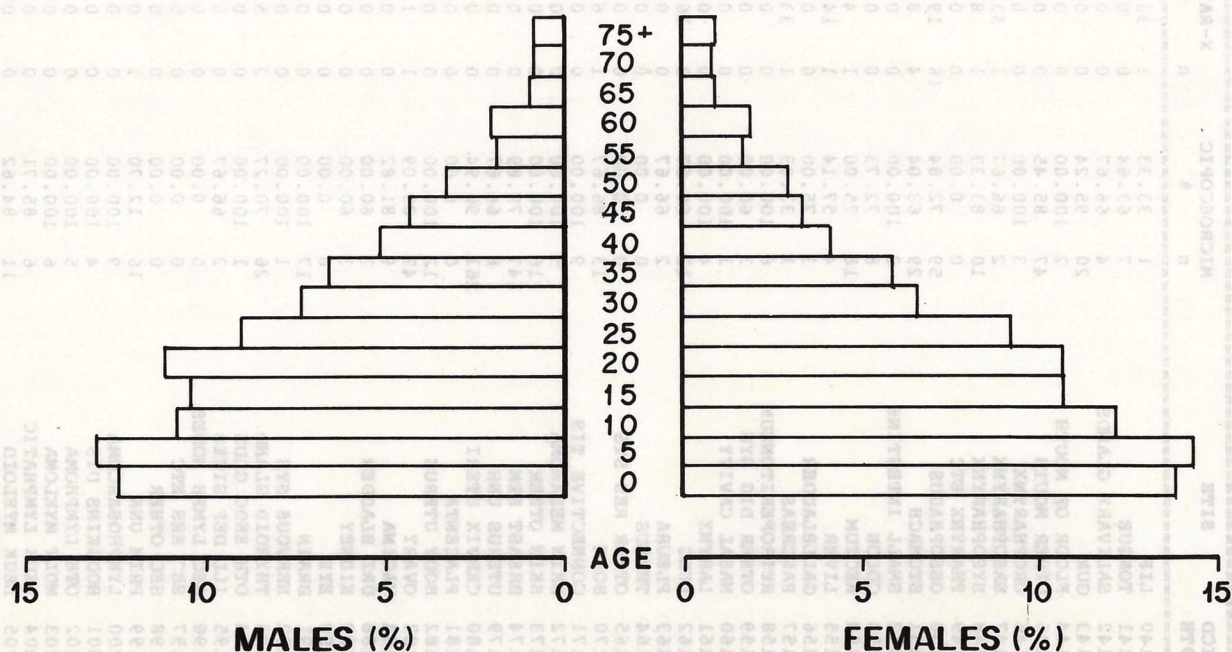
INCIDENT CASES OF CANCER BY MOST VALID BASIS OF DIAGNOSIS AND SITE (LCU.2)

ICD 9TH	SITE	MICROSCOPIC		X-RAY		CLINICAL ONLY		OTHERS		D.C.O.		TOTALS	
		n	%	n	%	n	%	n	%	n	%	n	%
140	LIP	1	33.33	1	33.33	1	33.33	0	0.00	0	0.00	3	100.00
141	TONGUE	7	63.64	0	0.00	2	18.18	0	0.00	2	18.18	11	100.00
142	SALIVARY GLANDS	4	66.67	0	0.00	2	33.33	0	0.00	0	0.00	6	100.00
143	GUM	20	95.24	0	0.00	1	4.76	0	0.00	0	0.00	21	100.00
144	FLOOR OF MOUTH	2	100.00	0	0.00	0	0.00	0	0.00	0	0.00	2	100.00
145	OTHER MOUTH	47	85.45	0	0.00	7	12.73	0	0.00	1	1.82	55	100.00
146	OROPHARYNX	3	100.00	0	0.00	0	0.00	0	0.00	0	0.00	3	100.00
147	NASOPHARYNX	2	66.67	1	33.33	0	0.00	0	0.00	0	0.00	3	100.00
148	HYPOPHARYNX	10	83.33	1	8.33	1	8.33	0	0.00	0	0.00	12	100.00
149	PHARYNX ETC	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
150	ESOPHAGUS	59	72.84	16	19.75	3	3.70	1	1.23	2	2.47	81	100.00
151	STOMACH	29	63.04	4	8.70	6	13.04	1	2.17	6	13.04	46	100.00
152	SMALL INTESTINE	2	100.00	0	0.00	0	0.00	0	0.00	0	0.00	2	100.00
153	COLON	8	72.73	0	0.00	2	18.18	0	0.00	1	9.09	11	100.00
154	RECTUM	18	75.00	1	4.17	4	16.67	0	0.00	1	4.17	24	100.00
155	LIVER	4	57.14	1	14.29	1	14.29	0	0.00	1	14.29	7	100.00
156	GALLBLADDER	3	75.00	0	0.00	0	0.00	0	0.00	1	25.00	4	100.00
157	PANCREAS	1	33.33	1	33.33	1	33.33	0	0.00	0	0.00	3	100.00
158	RETROPERITONEUM	6	100.00	0	0.00	0	0.00	0	0.00	0	0.00	6	100.00
159	OTHER DIG SYS	3	60.00	0	0.00	0	0.00	0	0.00	2	40.00	5	100.00
160	NASAL CAVITY	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00
161	LARYNX	4	100.00	0	0.00	0	0.00	0	0.00	0	0.00	4	100.00
162	LUNG	12	66.67	3	16.67	1	5.56	1	5.56	1	5.56	18	100.00
163	PLEURA	2	66.67	0	0.00	0	0.00	0	0.00	1	33.33	3	100.00
164	THYMUS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
165	OTHER RES SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
170	BONE	13	86.67	1	6.67	0	0.00	0	0.00	1	6.67	15	100.00
171	CONNECTIVE TIS	9	100.00	0	0.00	0	0.00	0	0.00	0	0.00	9	100.00
172	SKIN MELANOMA	5	100.00	0	0.00	0	0.00	0	0.00	0	0.00	5	100.00
173	SKIN OTHER	16	100.00	0	0.00	0	0.00	0	0.00	0	0.00	16	100.00
174	BREAST FEM	147	79.89	0	0.00	30	16.30	0	0.00	7	3.80	184	100.00
179	UTERUS UNS	8	66.67	0	0.00	2	16.67	0	0.00	2	16.67	12	100.00
180	CERVIX UTERI	261	90.94	0	0.00	20	6.97	0	0.00	6	2.09	287	100.00
181	PLACENTA	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
182	BODY UTERUS	12	100.00	0	0.00	0	0.00	0	0.00	0	0.00	12	100.00
183	OVARY	49	89.09	1	1.82	3	5.45	0	0.00	2	3.64	55	100.00
184	VAGINA	9	81.82	0	0.00	2	18.18	0	0.00	0	0.00	11	100.00
188	URI BLADDER	3	60.00	0	0.00	0	0.00	0	0.00	2	40.00	5	100.00
189	KIDNEY	3	60.00	0	0.00	0	0.00	0	0.00	2	40.00	5	100.00
190	EYE	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
191	BRAIN	17	100.00	0	0.00	0	0.00	0	0.00	0	0.00	17	100.00
192	NERVOUS SYS	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00
193	THYROID GLAND	26	70.27	2	5.41	6	16.22	0	0.00	3	8.11	37	100.00
194	OTH ENDO GLDS	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00
195	ILL DEF SITES	2	66.67	0	0.00	0	0.00	0	0.00	1	33.33	3	100.00
196	SEC LYMPH NODES	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
197	SEC RES ETC	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
198	SEC OTHER	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
199	PRIM UNK	16	12.70	1	0.79	2	1.59	0	0.00	107	84.92	126	100.00
200	LYMPHOSARCOMA	9	100.00	0	0.00	0	0.00	0	0.00	0	0.00	9	100.00
201	HODGKINS DIS	4	100.00	0	0.00	0	0.00	0	0.00	0	0.00	4	100.00
202	OTH LYMPHOMA	5	100.00	0	0.00	0	0.00	0	0.00	0	0.00	5	100.00
203	MULT MYELOMA	6	100.00	0	0.00	0	0.00	0	0.00	0	0.00	6	100.00
204	LEUK LYMPHATIC	6	85.71	0	0.00	0	0.00	0	0.00	1	14.29	7	100.00
205	LEUK MYELOID	11	84.62	0	0.00	0	0.00	0	0.00	2	15.38	13	100.00
206	LEUK MONOCYTIC	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
207	LEUK OTH SPE	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
208	LEUK UNS	1	50.00	0	0.00	0	0.00	0	0.00	1	50.00	2	100.00
ALL SITES TOTALS		888	75.38	34	2.89	97	8.23	3	0.25	156	13.24	1178	100.00

ESTIMATED RESIDENT POPULATION BY AGE AND SEX
AS ON 1 JULY 1984 IN BANGALORE
TOTAL POPULATION (ALL RELIGIOUS COMMUNITIES)

AGE-GROUP (YEARS)	MALE		FEMALE		TOTAL	
	NUMBER	%	NUMBER	%	NUMBER	%
0-4	213449	12.44	212936	13.85	426385	13.10
5-9	223524	13.02	221105	14.38	444629	13.66
10-14	185390	10.80	186032	12.10	371422	11.41
15-19	179341	10.45	164602	10.70	343943	10.57
20-24	191461	11.16	164143	10.67	355604	10.93
25-29	154143	8.98	140855	9.16	294998	9.07
30-34	126011	7.34	99612	6.48	225623	6.93
35-39	111940	6.52	90686	5.90	202626	6.23
40-44	88645	5.16	65116	4.23	153761	4.73
45-49	74165	4.32	50915	3.31	125080	3.84
50-54	57554	3.35	45376	2.95	102930	3.16
55-59	33100	1.93	25450	1.66	58550	1.80
60-64	34247	2.00	29196	1.90	63443	1.95
65-69	15451	0.90	14395	0.94	29846	0.92
70-74	14079	0.82	13212	0.86	27291	0.84
75+	13835	0.81	14072	0.92	27907	0.86
ANS	0	0.00	0	0.00	0	0.00
TOTAL	1716335	100.00	1537703	100.00	3254038	100.00

ANS = AGE NOT SPECIFIED



ESTIMATED RESIDENT POPULATION BY AGE AND SEX IN
BANGALORE (AS ON JULY 1, 1984)

POPULATION-BASED CANCER REGISTRY: BOMBAY

The Bombay Cancer Registry was established in June, 1963 as a Unit of the Indian Cancer Society, Bombay, with the aim of obtaining reliable morbidity data on cancer from a precisely defined urban population (Greater Bombay). From January 1, 1982, the registry receives financial support from the Indian Council of Medical Research, New Delhi and now collects data on NCRP designed core-proforma.

The bulk of information is obtained on cancer patients from the Tata Memorial Hospital. Additionally, data is collected from 92 private and public hospitals in Bombay under the care of 315 specialists practising in the city (115 surgeons/physicians, 40 pathologists, 35 radiologists and 125 gynaecologists).

General Medical practitioners are not contacted individually, as according to local practice, only the specialists assume charge of cancer patients in the private hospitals and nursing homes of Greater Bombay.

Staff members of the registry personally visit the wards of all cooperating hospitals, at least once a week, to interview each cancer patient. All files maintained by the various departments of these hospitals are also cross-checked. Care is taken to prevent duplicate entry of a patient already registered in the record files through a name index card system.

With the exception of the Tata Memorial Hospital for cancer at Bombay, hospital out-patient records are not included in the registry records, because of a paucity of clinical details and lack of information on residential status of patients attending these clinics. Cancer patients are not followed up by the registry.

Supplementary information is taken from the death records maintained by the Bombay Municipal Corporation. Death certificates are available for copying one year after death. This makes it possible to check on a number of missed cases. "Cancer" deaths are matched with the registry files and unmatched deaths counted as incident cases for the corresponding year.

Greater Bombay, occupying an area of 603 square kilometers, has an estimated resident population of 9.3 million on July 1, 1984; approximately 68.8% are Hindus, 14.1% Muslims, 6.3% Christians, 4.8% Neo-Buddhists, 4.1% Jains, 1.1% Parsis (Zoroastrians) and 0.8% others. Although Bombay is the most cosmopolitan city in India, major language groups are: Marathi, Gujarathi and Hindi.

Greater Bombay is an island, situated between latitudes $18^{\circ} 5'$ to $19^{\circ} 1'$ north and longitudes $70^{\circ} 4'$ to 73° east.

Dr. D. J. JUSSAWALLA, Project Chief
Mr. B. B. YEOLE, Senior Bio-Statistician
Mr. M. V. NATEKAR, Bio-Statistician

POPULATION-BASED CANCER REGISTRY BOMBAY

SEX : MALES

YEAR : 1984

NUMBER OF INCIDENT CASES OF CANCER BY AGE AND SITE (ICD-9), AND PERCENTAGES

ICD-9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140	LIP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0.31
141	TONGUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0.31
142	SALIVARY GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	204	6.29
143	GUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0.31
144	FLOOR OF MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0.65
145	OTHER MOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0.55
146	OROPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	3.33
147	NASOPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	3.05
148	HYPOPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0.55
149	PHARYNX ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	218	6.72
150	ESOPHAGUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	1.11
151	STOMACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	291	8.97
152	SMALL INTES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	189	5.83
153	COLON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	1.94
154	RECTUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	2.71
155	LIVER	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	2.22
156	GALLBLADDER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0.92
157	PANCREAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	1.54
158	RETROPERITO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.18
159	OTHER DIG S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0.22
160	NASAL CAVIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0.86
161	LARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	201	6.20
162	LUNG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	324	9.99
163	PLEURA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.06
164	THYMUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.09
165	OTHER RES S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	BONE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0.92
171	CONNECTIVE	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	61	1.88
172	SKIN MELANO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0.31
173	SKIN OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	1.08
175	BREAST MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0.28
186	PROSTATE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115	3.55
187	TESTIS	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	1.29
188	PENIS ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	1.85
189	URI BLADDER	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	2.93
190	KIDNEY	6	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	1.23
191	EYE	6	3	3	4	7	9	8	3	3	3	3	3	3	3	3	3	3	100	3.08
192	NERVOUS SYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.06
193	THYROID GLA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0.68
194	OTH ENDO GL	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.06
195	ILL DEF SIT	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0.49
196	SEC LYMPH N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	2.03
197	SEC RES ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	1.88
198	SEC OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0.37
199	PRIM UNK	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	1.57
200	LYMPHOSARCO	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	1.33
201	HODGKINS DI	1	1	4	3	1	1	1	1	1	1	1	1	1	1	1	1	1	52	1.60
202	OTH LYMPHOM	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	0.59
203	MULT MYELOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	2.31
204	LEUK LYMPHA	12	9	3	7	6	5	9	6	4	4	4	4	4	4	4	4	4	74	2.28
205	LEUK MYELOI	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	0.03
206	LEUK MONOCY	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.06
207	LEUK OTH SP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0.59
208	LEUK UNS	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3244	100.00
TOTAL																				4

NUMBER OF INCIDENT CASES OF CANCER BY AGE AND SITE (ICD.9), AND PERCENTAGES

ICD.9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140	LIP	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	4	0.15
141	TONGUE	0	0	0	0	0	0	0	0	1	6	10	2	2	8	4	6	0	45	1.66
142	SALIVARY GL	1	0	0	0	0	0	0	0	3	0	0	2	0	0	1	2	0	10	0.37
143	GUM	0	0	0	0	0	0	0	0	2	1	5	3	3	5	2	2	0	22	0.81
144	FLOOR OF MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	7	0.26
145	OTHER MOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.04
146	OROPHARYNX	0	0	0	0	0	0	0	0	9	17	11	7	7	4	3	0	0	70	2.58
147	NASOPHARYNX	0	0	0	0	0	0	0	0	4	0	1	1	1	1	0	0	0	9	0.33
148	HYPOPHARYNX	0	0	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	7	0.26
149	PHARYNX ETC	0	0	0	0	0	0	0	0	3	2	4	5	3	3	2	2	0	52	1.92
150	OESOPHAGUS	0	0	0	0	0	0	0	0	1	2	29	20	26	20	19	13	0	20	0.74
151	STOMACH	0	0	0	0	0	0	0	0	12	11	7	7	10	11	4	12	0	175	6.45
152	SMALL INTES	0	0	0	0	0	0	0	0	6	1	1	1	1	0	1	2	0	87	3.20
153	COLON	0	0	0	0	0	0	0	0	0	6	8	10	7	9	6	9	0	7	0.26
154	RECTUM	0	0	0	0	0	0	0	0	3	7	10	5	7	5	3	6	0	56	2.06
155	LIVER	0	0	0	0	0	0	0	0	2	4	4	4	1	4	1	7	0	48	1.77
156	GALLBLADDER	1	0	0	0	0	0	0	0	2	4	3	4	1	4	1	1	0	30	1.10
157	PANCREAS	0	0	0	0	0	0	0	0	2	6	4	1	6	2	2	5	0	30	1.10
158	RETROPERITO	0	0	0	0	0	0	0	0	1	2	1	3	3	3	1	4	0	23	0.85
159	OTHER DIG S	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	1	0	10	0.37
160	NASAL CAVIT	0	0	0	0	0	0	0	0	0	3	2	1	4	3	3	1	1	9	0.33
161	LARYNX	0	0	0	0	0	0	0	0	2	4	5	3	4	3	3	2	0	24	0.88
162	LUNG	0	0	0	0	0	0	0	0	1	4	8	16	10	16	7	8	0	26	0.96
163	PLEURA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	2.95
164	THYMUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
165	OTHER RES S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.04
170	BONE	1	3	6	10	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.00
171	CONNECTIVE	0	0	2	2	1	1	0	0	1	0	1	2	0	1	0	0	0	30	1.10
172	SKIN MELANO	0	0	0	0	0	0	0	0	0	1	3	2	3	3	1	0	0	22	0.81
173	SKIN OTHER	0	0	0	0	0	0	0	0	0	3	3	4	4	1	0	0	0	5	0.18
174	BREAST FEM	0	0	0	0	0	0	0	0	4	3	8	6	5	3	2	1	0	28	1.03
179	UTERUS UNS	0	0	0	0	0	0	0	0	90	2	3	3	7	37	17	30	1	595	21.92
180	CERVIX UTER	0	0	0	0	0	0	0	0	75	66	83	59	42	25	17	21	0	25	0.92
181	PLACENTA	0	0	0	0	0	0	0	0	12	3	9	18	16	6	0	0	0	496	18.27
182	BODY UTERUS	0	0	0	0	0	0	0	0	1	0	9	7	6	0	0	0	0	8	0.29
183	OVARY	0	0	0	0	0	0	0	0	1	6	27	18	16	8	7	6	0	43	1.58
184	VAGINA	0	0	0	0	0	0	0	0	10	30	3	1	5	8	4	4	0	151	5.56
188	URI BLADDER	0	0	0	0	0	0	0	0	2	1	3	1	2	4	4	2	0	27	0.99
189	KIDNEY	8	0	0	0	0	0	0	0	1	1	0	1	2	4	3	1	0	18	0.66
190	EYE	4	1	1	1	0	0	0	0	1	3	0	1	2	2	1	1	0	19	0.70
191	BRAIN	1	10	1	2	2	0	0	0	0	0	0	6	0	0	2	2	0	5	0.18
192	NERVOUS SYS	0	0	0	0	0	0	0	0	0	2	2	3	2	0	0	0	0	44	1.62
193	THYROID GLA	0	0	0	0	0	0	0	0	0	1	0	8	0	3	1	0	0	2	0.07
194	OTH ENDO GL	4	1	0	0	0	0	0	0	3	0	2	2	4	0	0	0	0	39	1.44
195	ILL DEF SIT	1	0	0	0	0	0	0	0	1	1	1	1	2	2	4	2	0	6	0.22
196	SEC LYMPH N	0	0	0	0	0	0	0	0	1	1	2	1	4	2	4	6	0	18	0.66
197	SEC RES ETC	0	0	0	0	0	0	0	0	4	5	6	4	8	6	4	6	0	27	0.99
198	SEC OTHER	0	0	0	0	0	0	0	0	2	1	3	1	4	2	2	1	0	53	1.95
199	PRIM UNK	0	0	0	0	0	0	0	0	4	1	3	6	4	1	2	3	0	24	0.88
200	LYMPHOSARCO	0	0	0	0	0	0	0	0	0	0	2	2	0	0	3	3	0	11	0.41
201	HODGKINS DI	1	1	0	0	0	0	0	0	1	0	2	2	1	0	0	2	0	17	0.63
202	OTH LYMPHOM	0	0	0	0	0	0	0	0	1	2	2	3	1	2	1	0	0	18	0.66
203	MOLT MYELOM	0	0	0	0	0	0	0	0	0	3	5	3	2	3	5	3	0	36	1.33
204	LEUK LYMPHA	10	3	2	2	1	0	0	0	1	1	2	1	1	2	2	2	0	18	0.66
205	LEUK MYELOI	0	3	4	6	3	1	4	5	0	1	0	1	1	2	0	0	0	27	0.99
206	LEUK MONOCY	0	0	0	0	0	0	0	0	0	3	4	5	3	3	3	1	0	48	1.77
207	LEUK OTH SP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
208	LEUK UNS	0	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	1	0.04
TOTAL		32	26	22	40	42	79	124	229	266	344	375	297	284	218	156	179	2	2715	100.00

POPULATION-BASED CANCER REGISTRY BOMBAY

YEAR : 1984

SEX : MALES

AGE-SPECIFIC, WORLD AGE ADJUSTED AND TRUNCATED AGE ADJUSTED (35-64 YEARS) - INCIDENCE RATE PER 100,000 PERSONS

ICD-9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	CR	AAR	TCR
140	LIP	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.3	2.0	0.0	1.2	1.8	0.0	5.0	0.2	0.4	0.6
141	TONGUE	0.0	0.0	0.0	0.0	0.0	0.2	1.3	2.7	4.1	8.5	17.4	21.5	43.6	32.3	32.6	70.2	3.9	7.5	14.2
142	SALIVARY	0.0	0.0	0.0	0.2	0.0	0.6	0.0	0.0	0.0	0.3	0.5	0.0	1.2	1.8	2.0	5.0	0.2	0.4	0.3
143	GUM	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.3	1.0	2.5	4.0	2.4	1.8	2.0	5.0	0.4	0.7	1.5
144	FLOOR OF	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.3	1.0	0.5	4.8	1.2	3.6	2.0	0.0	0.3	0.5	1.2
145	OTHER MOUTH	0.0	0.0	0.0	0.0	0.0	0.4	0.8	2.2	3.8	4.9	10.5	9.6	17.0	12.5	16.3	20.1	2.1	3.4	7.2
146	OROPHARYNX	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.0	1.8	6.5	8.0	8.0	12.1	19.7	20.4	40.1	1.9	3.6	5.7
147	NASOPHARYNX	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.6	0.0	2.5	0.8	0.0	3.6	0.0	5.0	0.3	0.5	0.7
148	HYPOPHARYNX	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.9	4.7	15.9	27.9	29.1	62.7	20.4	100.3	4.2	8.5	13.0
149	PHARYNX	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.9	4.7	15.9	27.9	29.1	62.7	20.4	100.3	4.2	8.5	13.0
150	ESOPHAGUS	0.0	0.0	0.0	0.0	0.0	0.2	0.3	1.5	4.4	9.4	23.4	46.2	58.1	48.4	48.9	170.5	5.6	12.1	20.2
151	STOMACH	0.0	0.0	0.0	0.0	0.0	0.3	1.2	2.2	4.7	6.8	15.4	23.1	31.5	23.3	28.5	90.3	3.6	7.0	12.2
152	SMALL INT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	3.6	0.0	0.0	5.0	0.1	0.3	0.6
153	COLON	0.0	0.0	0.0	0.0	0.0	0.2	1.0	1.0	1.8	1.3	4.5	4.8	8.5	7.2	8.1	60.2	1.2	2.7	3.2
154	RECTUM	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.0	1.2	1.5	6.0	4.8	13.3	16.1	16.3	65.2	1.7	3.3	5.2
155	LIVER	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	1.6	2.0	5.6	2.4	5.4	2.0	15.0	1.7	3.4	3.7
156	GALLBLADDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.0	4.0	10.4	7.3	9.0	12.2	35.1	0.6	1.1	1.9
157	PANCREAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.0	1.2	1.8	0.0	0.0	0.1	0.2	0.4
158	RETROPERITONEUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	10.0	0.1	0.3	0.4
159	OTHER DIGESTIVE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4
160	NASAL CAVITY	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.3	0.0	3.0	4.0	6.1	10.8	0.0	5.0	0.5	1.1	1.9
161	LARYNX	0.0	0.0	0.0	0.0	0.0	0.2	0.3	1.0	3.8	8.1	16.4	27.1	36.3	41.2	28.5	105.3	3.9	8.1	13.3
162	LUNG	0.0	0.0	0.0	0.0	0.0	0.8	2.6	1.5	5.6	11.4	23.9	33.5	65.4	64.5	77.4	145.5	6.2	12.9	20.2
163	PLEURA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.2	0.0
164	THYMUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
165	OTHER RESPIRATORY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	BONE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171	CONNECTIVE TISSUE	0.5	0.6	0.2	0.8	0.7	1.0	0.8	1.2	2.1	0.3	2.0	4.8	7.3	5.4	6.1	15.0	1.2	1.8	2.6
172	SKIN MELANOMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.5	1.6	3.6	0.0	4.1	20.1	0.7	1.4	2.5
173	SKIN OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	3.5	3.2	9.7	1.8	6.1	20.1	0.2	0.4	0.8
175	BREAST MALE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	7.2	4.1	0.0	0.2	0.4	0.4
185	PROSTATE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	12.1	35.8	57.0	210.7	2.2	7.3	1.1
186	TESTIS	0.4	0.0	0.0	0.4	0.8	1.0	2.6	0.5	0.9	0.7	1.0	1.6	2.4	0.0	6.1	10.0	0.8	1.0	1.1
187	PENIS ETC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.3	4.0	4.0	4.8	9.0	8.1	35.1	1.2	2.1	2.8
188	UTERUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.0	7.0	4.8	25.4	23.3	18.3	40.1	1.8	3.8	6.2
189	KIDNEY	1.4	0.2	0.0	0.0	0.0	0.0	0.3	0.7	0.6	1.0	1.0	5.6	3.6	7.2	8.1	10.0	0.8	1.3	1.8
190	EYE	1.1	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1
191	BRAIN	1.4	1.1	0.6	0.8	1.1	1.9	2.0	0.7	2.6	3.9	3.5	5.6	10.9	5.4	10.2	0.0	1.9	2.4	4.1
192	NERVOUS SYSTEM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.3	1.0	2.4	4.8	3.6	2.0	0.0	0.0	0.1	0.0
193	THYROID GLAND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
194	OTHER ENDOCRINE	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5	1.6	3.6	1.8	2.0	5.0	0.3	0.6	1.0
195	ILL-DEFINED	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.5	0.3	0.3	0.5	1.6	3.6	1.8	2.0	5.0	0.3	0.6	1.0
196	SEC Lymph	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.0	1.5	2.6	5.5	5.6	12.1	10.8	8.1	20.1	1.3	2.3	4.1
197	SEC RES E	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.5	1.8	1.6	6.0	6.4	12.1	10.8	12.2	20.1	1.2	2.3	4.1
198	SEC OTHER	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.5	0.0	0.0	2.0	0.0	4.8	7.2	2.0	5.0	0.3	0.7	1.1
199	PRIM UNK	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.5	1.6	2.4	1.8	2.0	0.0	0.2	0.4	0.8
200	LYMPHOSAR	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	4.0	5.6	1.2	9.0	4.1	10.0	1.0	1.5	2.1
201	HODGKINS	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.9	2.0	4.0	5.6	1.2	9.0	4.1	10.0	1.0	1.5	2.1
202	OTH Lymph	0.4	0.6	0.2	1.0	0.7	0.6	0.0	0.7	0.9	1.3	2.0	2.4	4.8	1.8	4.1	25.1	1.0	1.7	1.5
203	MULT MYELOMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.3	1.0	3.2	7.3	0.0	12.2	10.0	0.4	0.8	1.7
204	LEUK Lymph	2.2	2.3	1.7	1.6	1.0	0.2	0.3	0.2	0.3	0.7	3.0	1.6	3.6	5.4	12.2	10.0	1.4	1.9	1.4
205	LEUK MYELO	0.5	0.6	0.6	1.4	0.8	1.9	1.5	1.0	1.2	2.0	0.5	5.6	7.3	7.2	6.1	15.0	1.4	2.0	2.5
206	LEUK MONO	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
207	LEUK OTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
208	LEUK UNS	0.9	0.6	0.0	0.0	0.0	0.6	0.3	0.2	0.0	0.3	0.5	0.0	1.2	0.0	0.0	15.0	0.4	0.6	0.3
TOTAL		10.8	7.2	6.4	9.8	9.8	16.9	26.0	29.5	60.3	105.7	224.1	320.5	520.9	561.0	529.6	1539.8	62.3	122.0	182.6

POPULATION-BASED CANCER REGISTRY BOMBAY
INCIDENT CASES OF CANCER BY MOST VALID BASIS OF DIAGNOSIS AND SITE (ICD-9)

SEX : MALE
YEAR : 1984

ICD 9TH	SITE	MICROSCOPIC		X-RAY		CLINICAL ONLY		OTHERS		D.C.O.		TOTALS	
		n	%	n	%	n	%	n	%	n	%	n	%
140	LIP	8	80.00	0	0.00	1	10.00	0	0.00	1	10.00	10	100.00
141	TONGUE	167	81.86	1	0.49	17	8.33	1	0.49	18	8.82	204	100.00
142	SALIVARY GLANDS	9	90.00	0	0.00	0	0.00	0	0.00	0	0.00	10	100.00
143	GUM	20	95.24	1	4.76	0	0.00	0	0.00	0	0.00	21	100.00
144	FLOOR OF MOUTH	18	100.00	0	0.00	0	0.00	0	0.00	0	0.00	18	100.00
145	OTHER MOUTH	92	85.19	0	0.00	10	9.26	0	0.00	6	5.56	108	100.00
146	OROPHARYNX	83	83.84	0	0.00	9	9.09	0	0.00	7	7.07	99	100.00
147	NASOPHARYNX	10	55.56	2	11.11	3	16.67	0	0.00	3	16.67	18	100.00
148	HYPOPHARYNX	178	81.65	10	4.59	21	9.63	4	1.83	5	2.29	218	100.00
149	PHARYNX ETC	20	55.56	0	0.00	4	11.11	0	0.00	12	33.33	36	100.00
150	ESOPHAGUS	166	57.04	34	11.68	54	18.56	6	2.06	31	10.65	291	100.00
151	STOMACH	103	54.50	7	3.70	47	24.87	10	5.29	22	11.64	189	100.00
152	SMALL INTESTINE	6	100.00	0	0.00	0	0.00	0	0.00	0	0.00	6	100.00
153	COLON	34	53.97	5	7.94	18	28.57	1	1.59	5	7.94	63	100.00
154	RECTUM	58	65.91	1	1.14	16	18.18	2	2.27	11	12.50	88	100.00
155	LIVER	29	40.28	0	0.00	23	31.94	3	4.17	17	23.61	72	100.00
156	GALLBLADDER	9	30.00	1	3.33	16	53.33	1	3.33	3	10.00	30	100.00
157	PANCREAS	11	22.00	2	4.00	17	34.00	12	24.00	8	16.00	50	100.00
158	RETROPERITONEUM	6	100.00	0	0.00	0	0.00	0	0.00	0	0.00	6	100.00
159	OTHER DIG SYS	3	42.86	0	0.00	0	0.00	0	0.00	0	0.00	3	100.00
160	NASAL CAVITY	24	85.71	2	7.14	2	7.14	0	0.00	4	57.14	7	100.00
161	LARYNX	135	67.16	1	0.50	34	16.92	5	2.49	26	12.94	201	100.00
162	LUNG	140	43.21	53	16.36	79	24.38	10	3.09	42	12.96	324	100.00
163	PLEURA	2	100.00	0	0.00	0	0.00	0	0.00	0	0.00	2	100.00
164	THYMUS	3	100.00	0	0.00	0	0.00	0	0.00	0	0.00	3	100.00
165	OTHER RES SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
170	BONE	15	50.00	3	10.00	4	13.33	0	0.00	8	26.67	30	100.00
171	CONNECTIVE TIS	50	81.97	1	1.64	8	13.11	0	0.00	2	3.28	61	100.00
172	SKIN MELANOMA	10	100.00	0	0.00	0	0.00	0	0.00	0	0.00	10	100.00
173	SKIN OTHER	29	82.86	0	0.00	3	8.57	0	0.00	3	8.57	35	100.00
175	BREAST MALE	7	77.78	0	0.00	0	0.00	1	11.11	1	11.11	9	100.00
185	PROSTATE	70	60.87	8	6.96	21	18.26	5	4.35	11	9.57	115	100.00
186	TESTIS	37	88.10	2	4.76	2	4.76	1	2.38	0	0.00	42	100.00
187	PENIS ETC	54	90.00	0	0.00	5	8.33	0	0.00	1	1.67	60	100.00
188	URI BLADDER	69	72.63	2	2.11	10	10.53	11	11.58	3	3.16	95	100.00
189	KIDNEY	24	60.00	1	2.50	13	32.50	0	0.00	2	5.00	40	100.00
190	EYE	7	70.00	0	0.00	2	20.00	0	0.00	1	10.00	10	100.00
191	BRAIN	72	72.00	1	1.00	18	18.00	1	1.00	8	8.00	100	100.00
192	NERVOUS SYS	1	50.00	0	0.00	0	0.00	0	0.00	1	50.00	2	100.00
193	THYROID GLAND	16	72.73	0	0.00	6	27.27	0	0.00	0	0.00	22	100.00
194	OTH ENDO GLDS	1	50.00	0	0.00	1	50.00	0	0.00	0	0.00	2	100.00
195	ILL DEF SITES	6	37.50	0	0.00	6	37.50	0	0.00	4	25.00	16	100.00
196	SEC LYMPH NODES	52	78.79	1	1.52	9	13.64	1	1.52	3	4.55	66	100.00
197	SEC RES ETC	34	55.74	5	8.20	20	32.79	0	0.00	2	3.28	61	100.00
198	SEC OTHER	10	55.56	0	0.00	8	44.44	0	0.00	0	0.00	18	100.00
199	PRIM UNK	1	8.33	0	0.00	7	58.33	0	0.00	4	33.33	12	100.00
200	LYMPHOSARCOMA	49	96.08	0	0.00	1	1.96	0	0.00	1	1.96	51	100.00
201	HODGKINS DIS	35	81.40	0	0.00	6	13.95	0	0.00	2	4.65	43	100.00
202	OTH LYMPHOMA	35	67.31	1	1.92	11	21.15	1	1.92	4	7.69	52	100.00
203	MULT MYELOMA	10	52.63	1	5.26	7	36.84	0	0.00	1	5.26	19	100.00
204	LEUK LYMPHATIC	47	62.67	0	0.00	25	33.33	0	0.00	3	4.00	75	100.00
205	LEUK MYELOID	47	63.51	0	0.00	21	28.38	0	0.00	6	8.11	74	100.00
206	LEUK MONOCYTIC	0	0.00	0	0.00	1	100.00	0	0.00	0	0.00	1	100.00
207	LEUK OTH SPE	1	50.00	0	0.00	1	50.00	0	0.00	0	0.00	2	100.00
208	LEUK UNS	5	26.32	0	0.00	7	36.84	0	0.00	7	36.84	19	100.00
ALL SITES TOTALS		2128	65.60	146	4.50	594	18.31	76	2.34	300	9.25	3244	100.00

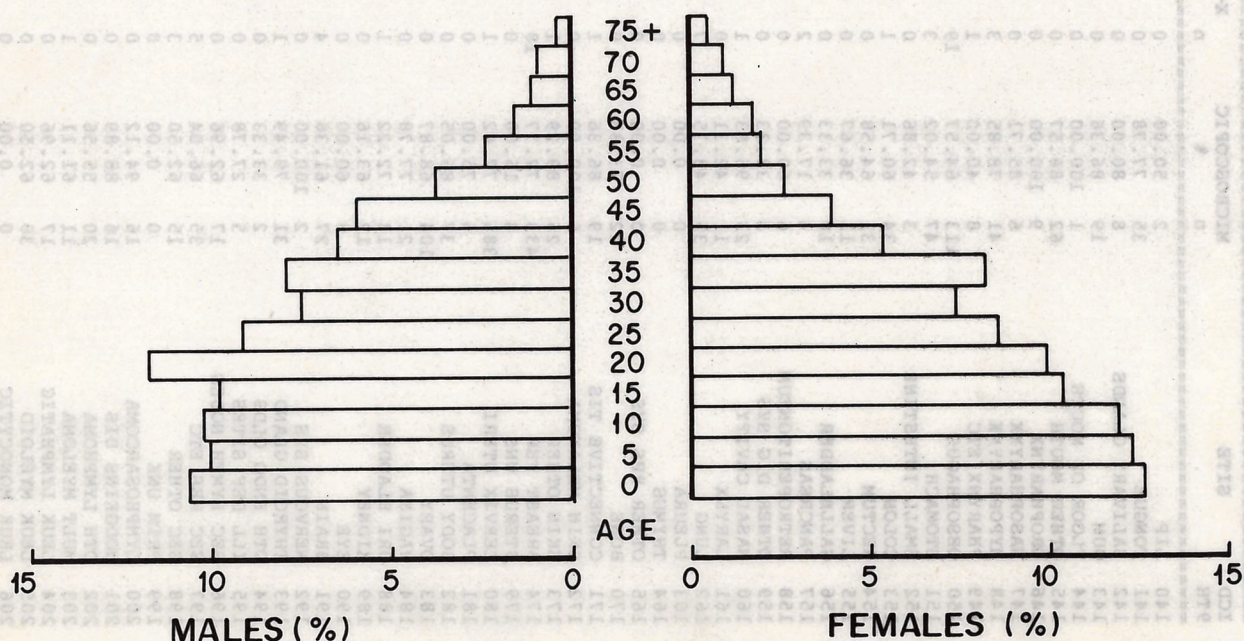
POPULATION-BASED CANCER REGISTRY BOMBAY
INCIDENT CASES OF CANCER BY MOST VALID BASIS OF DIAGNOSIS AND SITE (ICD.9) SEX : FEMALE YEAR : 1984

ICD 9TH	SITE	MICROSCOPIC		X-RAY		CLINICAL ONLY		OTHERS		D.C.O.		TOTALS	
		n	%	n	%	n	%	n	%	n	%	n	%
140	LIP	2	50.00	0	0.00	1	25.00	0	0.00	1	25.00	4	100.00
141	TONGUE	35	77.78	0	0.00	6	13.33	0	0.00	4	8.89	45	100.00
142	SALIVARY GLANDS	8	80.00	0	0.00	2	20.00	0	0.00	0	0.00	10	100.00
143	GUM	19	86.36	0	0.00	2	9.09	0	0.00	1	4.55	22	100.00
144	FLOOR OF MOUTH	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00
145	OTHER MOUTH	62	88.57	0	0.00	3	4.29	1	1.43	4	5.71	70	100.00
146	OROPHARYNX	9	100.00	0	0.00	0	0.00	0	0.00	0	0.00	9	100.00
147	NASOPHARYNX	6	85.71	0	0.00	1	14.29	0	0.00	0	0.00	7	100.00
148	HYPOPHARYNX	41	78.85	3	5.77	5	9.62	1	1.92	2	3.85	52	100.00
149	PHARYNX ETC	8	40.00	1	5.00	3	15.00	0	0.00	8	40.00	20	100.00
150	ESOPHAGUS	113	64.57	19	10.86	14	8.00	6	3.43	23	13.14	175	100.00
151	STOMACH	47	54.02	3	3.45	22	25.29	3	3.45	12	13.79	87	100.00
152	SMALL INTESTINE	3	42.86	0	0.00	1	14.29	0	0.00	3	42.86	7	100.00
153	COLON	34	60.71	1	1.79	13	23.21	3	5.36	5	8.93	56	100.00
154	RECTUM	31	64.58	0	0.00	9	18.75	3	6.25	5	10.42	48	100.00
155	LIVER	11	36.67	0	0.00	8	26.67	0	0.00	11	36.67	30	100.00
156	GALLBLADDER	10	33.33	0	0.00	11	36.67	3	10.00	6	20.00	30	100.00
157	PANCREAS	4	17.39	2	8.70	9	39.13	2	8.70	6	26.09	23	100.00
158	RETROPERITONEUM	6	60.00	0	0.00	3	30.00	0	0.00	1	10.00	10	100.00
159	OTHER DIG SYS	3	33.33	0	0.00	0	0.00	0	0.00	6	66.67	9	100.00
160	NASAL CAVITY	23	95.83	1	4.17	0	0.00	0	0.00	0	0.00	24	100.00
161	LARYNX	11	42.31	0	0.00	6	23.08	1	3.85	8	30.77	26	100.00
162	LUNG	35	43.75	7	8.75	23	28.75	1	1.25	14	17.50	80	100.00
163	PLEURA	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
164	THYMUS	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00	1	100.00
165	OTHER RES SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
170	BONE	22	73.33	0	0.00	3	10.00	0	0.00	5	16.67	30	100.00
171	CONNECTIVE TIS	19	86.36	1	4.55	2	9.09	0	0.00	0	0.00	22	100.00
172	SKIN MELANOMA	5	100.00	0	0.00	0	0.00	0	0.00	0	0.00	5	100.00
173	SKIN OTHER	25	89.29	1	3.57	1	3.57	0	0.00	1	3.57	28	100.00
174	BREAST FEM	433	72.77	18	3.03	89	14.96	6	1.01	49	8.24	595	100.00
179	UTERUS UNS	4	16.00	0	0.00	6	24.00	0	0.00	15	60.00	25	100.00
180	CERVIX UTERI	385	77.62	1	0.20	77	15.52	9	1.81	24	4.84	496	100.00
181	PLACENTA	6	75.00	0	0.00	1	12.50	0	0.00	1	12.50	8	100.00
182	BODY UTERUS	37	86.05	0	0.00	5	11.63	0	0.00	1	2.33	43	100.00
183	OVARY	104	68.87	0	0.00	31	20.53	6	3.97	10	6.62	151	100.00
184	VAGINA	21	77.78	0	0.00	5	18.52	0	0.00	1	3.70	27	100.00
188	URI BLADDER	13	72.22	1	5.56	2	11.11	1	5.56	1	5.56	18	100.00
189	KIDNEY	12	63.16	0	0.00	2	10.53	0	0.00	5	26.32	19	100.00
190	EYE	3	60.00	0	0.00	2	40.00	0	0.00	0	0.00	5	100.00
191	BRAIN	27	61.36	4	9.09	9	20.45	0	0.00	4	9.09	44	100.00
192	NERVOUS SYS	2	100.00	0	0.00	0	0.00	0	0.00	0	0.00	2	100.00
193	THYROID GLAND	31	79.49	1	2.56	5	12.82	0	0.00	2	5.13	39	100.00
194	OTH ENDO GLDS	2	33.33	0	0.00	4	66.67	0	0.00	0	0.00	6	100.00
195	ILL DEF SITES	5	27.78	0	0.00	8	44.44	0	0.00	5	27.78	18	100.00
196	SEC LYMPH NODES	17	62.96	0	0.00	6	22.22	0	0.00	4	14.81	27	100.00
197	SEC RES ETC	35	66.04	5	9.43	11	20.75	0	0.00	2	3.77	53	100.00
198	SEC OTHER	15	62.50	3	12.50	5	20.83	1	4.17	0	0.00	24	100.00
199	PRIM UNK	0	0.00	0	0.00	6	54.55	0	0.00	5	45.45	11	100.00
200	LYMPHOSARCOMA	16	94.12	0	0.00	1	5.88	0	0.00	0	0.00	17	100.00
201	HODGKINS DIS	16	88.89	0	0.00	1	5.56	0	0.00	1	5.56	18	100.00
202	OTH LYMPHOMA	20	55.56	0	0.00	11	30.56	0	0.00	5	13.89	36	100.00
203	MULT MYELOMA	11	61.11	1	5.56	3	16.67	0	0.00	3	16.67	18	100.00
204	LEUK LYMPHATIC	17	62.96	0	0.00	10	37.04	0	0.00	0	0.00	27	100.00
205	LEUK MYELOID	30	62.50	0	0.00	12	25.00	0	0.00	6	12.50	48	100.00
206	LEUK MONOCYTIC	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
207	LEUK OTH SPE	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00
208	LEUK UNS	2	25.00	0	0.00	4	50.00	0	0.00	2	25.00	8	100.00
ALL SITES TOTALS		1858		73		464		47		273		2715	
		68.43		2.69		17.09		1.73		10.06		100.00	

ESTIMATED RESIDENT POPULATION BY AGE AND SEX
AS ON 1 JULY 1984 IN BOMBAY
TOTAL POPULATION (ALL RELIGIOUS COMMUNITIES)

AGE-GROUP (YEARS)	MALE		FEMALE		TOTAL	
	NUMBER	%	NUMBER	%	NUMBER	%
0-4	555459	10.67	518874	12.57	1074333	11.51
5-9	527182	10.12	505715	12.25	1032897	11.06
10-14	533549	10.25	496487	12.03	1030036	11.03
15-19	510308	9.80	429026	10.39	939334	10.06
20-24	613734	11.78	409209	9.91	1022943	10.96
25-29	480069	9.22	352700	8.54	832769	8.92
30-34	391899	7.53	305912	7.41	697811	7.47
35-39	412912	7.93	337327	8.17	750239	8.04
40-44	341457	6.56	225064	5.45	566521	6.07
45-49	307592	5.91	163495	3.96	471087	5.05
50-54	200771	3.86	111571	2.70	312342	3.35
55-59	125420	2.41	83989	2.03	209409	2.24
60-64	82557	1.59	74244	1.80	156801	1.68
65-69	55794	1.07	49945	1.21	105739	1.13
70-74	49096	0.94	41500	1.01	90596	0.97
75+	19938	0.38	22849	0.55	42787	0.46
ANS	57	0.00	12	0.00	69	0.00
TOTAL	5207794	100.00	4127919	100.00	9335713	100.00

ANS = AGE NOT SPECIFIED



ESTIMATED RESIDENT POPULATION BY AGE AND SEX
IN BOMBAY (AS ON JULY 1, 1984)

POPULATION-BASED CANCER REGISTRY: MADRAS

The Madras population-based cancer registry was established in July 1981 at the Cancer Institute, Adyar with financial support from Indian Council of Medical Research. The registry started data collection from 1st January, 1982 on NCRP designed core proforma.

The registry's activities are confined to the limits of the Corporation of Madras, which is coterminous with Madras District. The 1981 census enumerated a population of 3.3 million (1.7 million males, 1.6 million females). The sex ratio is 934 females per 1000 males. Madras city is situated at longitude 80° 17'E and latitude 13° 04'N in the State of Tamil Nadu in the south-eastern part of the sub-continent. It is at sea level. Temperature varies between 60°F and 116°F during the cold and hot seasons respectively, the former falling in the months of November to February and the latter between April and June. The area of registration is 170 square kilometers.

Data are actively collected in a standard format, from 18 major government institutions and hospitals, 143 private hospitals and nursing homes, 25 pathology laboratories, corporation dispensaries and peripheral hospitals and over 600 medical practitioners. In 1984, 15% of cases registered are from the Cancer Institute, 28% from the Government General Hospital, 10% from Government Stanley Hospital and an additional 11% from the Government Hospital for Women and Children. Death certificate only cases accounted for 6%. The remaining cases are registered through 43 different sources.

The principal religious groups are Hindu, Christian and Muslim. While the majority of people speak Tamil, Telugu speaking people also live here.

Dr. V. SHANTA, Project Chief

Dr. P. N. RAJAPPAN, Senior Medical Officer

POPULATION-BASED CANCER REGISTRY MADRAS

SEX : MALES

YEAR : 1984

NUMBER OF INCIDENT CASES OF CANCER BY AGE AND SITE (ICD-9), AND PERCENTAGES

NUMBER OF INCIDENT CASES OF CANCER BY AGE AND SITE (ICD-9), AND PERCENTAGES																				
ICD-9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140	LIP	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	3	0.31
141	TONGUE	0	0	0	0	0	0	2	1	5	10	8	8	6	5	2	1	1	49	5.09
142	SALIVARY GL	0	0	0	0	2	1	1	0	0	0	0	3	0	0	0	0	0	9	0.94
143	GUM	0	0	0	0	0	0	0	2	1	2	0	2	0	1	0	2	0	10	1.04
144	FLOOR OF MO	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	3	0.31
145	OTHER MOUTH	0	0	0	0	0	0	1	3	4	5	7	6	5	5	7	3	0	49	5.09
146	OROPHARYNX	0	0	0	0	0	0	0	1	0	5	4	4	1	4	1	0	1	17	1.77
147	NASOPHARYNX	0	0	2	0	1	0	1	0	0	1	3	0	2	2	0	0	0	13	1.35
148	HYPOPHARYNX	0	0	0	0	1	3	3	1	3	9	7	6	3	6	6	2	1	50	5.20
149	PHARYNX ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0.21
150	ESOPHAGUS	0	0	0	0	1	2	0	1	8	9	8	17	8	11	5	3	0	73	7.59
151	STOMACH	0	1	0	0	3	1	3	7	12	12	30	28	23	13	5	7	1	146	15.18
152	SMALL INTES	0	0	0	0	0	0	0	0	0	1	2	2	0	0	0	0	0	3	0.31
153	COLON	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	1	0	7	0.73
154	RECTUM	0	0	0	0	2	4	2	2	3	3	3	4	2	3	1	3	1	33	3.43
155	LIVER	0	0	0	0	1	0	0	0	1	2	3	1	1	0	0	0	0	23	2.39
156	GALLBLADDER	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	3	0.31
157	PANCREAS	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	12	1.25
158	RETROPERITO	0	0	1	0	0	0	0	0	0	2	2	2	1	1	0	0	0	7	0.73
159	OTHER DIG S	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.10
160	NASAL CAVIT	1	0	0	0	0	1	1	0	1	2	1	0	0	0	0	1	1	9	0.94
161	LARYNX	0	0	0	0	1	0	1	2	2	8	11	8	8	10	2	1	3	55	5.72
162	LUNG	0	0	0	0	1	0	1	2	9	11	13	17	15	8	8	5	0	90	9.36
163	PLEURA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
164	THYMUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
165	OTHER RES S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	BONE	1	1	1	1	3	2	3	0	1	2	2	1	1	0	0	0	0	16	1.66
171	CONNECTIVE	2	0	0	0	1	1	0	0	3	0	2	1	1	0	0	0	0	11	1.14
172	SKIN MELANO	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	3	0.31
173	SKIN OTHER	0	1	0	0	0	1	0	0	2	3	2	1	0	0	2	1	0	16	1.66
175	BREAST MALE	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	3	0.31
185	PROSTATE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	8	0.83
186	TESTIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.83
187	PENIS ETC	0	0	0	0	0	1	2	2	4	4	5	4	5	1	2	3	0	32	3.33
188	URI BLADDER	0	0	0	0	0	0	1	1	1	1	2	1	2	5	0	4	0	19	1.98
189	KIDNEY	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	6	0.62
190	EYE	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.10
191	BRAIN	0	2	1	1	2	3	1	3	1	5	1	2	1	0	0	0	2	24	2.49
192	NERVOUS SYS	0	0	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	8	0.83
193	THYROID GLA	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	3	0.31
194	OTH ENDO GL	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	0	0	5	0.52
195	ILL DEF SIT	1	0	0	0	0	0	0	0	0	2	1	0	0	4	2	1	0	14	1.46
196	SEC LYMPH N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
197	SEC RES ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
198	SEC OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
199	PRIM UNK	0	0	0	0	0	0	0	0	0	7	6	7	3	4	0	0	0	33	3.43
200	LYMPHOSARCO	0	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	4	0.42
201	HODGKINS DI	1	2	4	2	0	1	2	2	1	2	1	0	1	0	0	0	0	19	1.98
202	OTH LYMPHOM	1	1	2	2	1	1	0	1	3	1	1	2	2	5	1	0	0	20	2.08
203	MULT MYELOM	0	0	0	0	0	0	0	0	1	1	2	2	1	1	1	0	0	9	0.94
204	LEUK LYMPHA	6	5	3	1	2	0	1	0	0	0	0	0	0	0	0	0	0	20	2.08
205	LEUK MYELOI	2	0	0	0	1	2	2	2	3	1	1	0	0	0	0	1	0	17	1.77
206	LEUK MONOCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
207	LEUK OTH SP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
208	LEUK UNS	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0.21
TOTAL		16	14	16	11	29	23	35	40	80	111	137	137	113	98	47	45	10	962	100.00

NUMBER OF INCIDENT CASES OF CANCER BY AGE AND SITE (ICD.9), AND PERCENTAGES																				
ICD.9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140	LIP	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0.16
141	TONGUE	0	0	0	0	0	0	1	2	1	0	2	2	2	1	0	0	0	13	1.01
142	SALIVARY GL	0	0	0	0	0	0	0	0	0	1	1	1	0	2	0	0	0	5	0.39
143	GUM	0	0	0	0	0	0	0	0	0	0	3	0	1	3	1	0	0	16	1.25
144	FLOOR OF MO	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.08
145	OTHER MOUTH	0	0	0	0	0	0	0	0	0	0	12	9	0	6	1	1	0	57	4.45
146	OROPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3	0.23
147	NASOPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	1.41
148	HYPOPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.23
149	PHARYNX ETC	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	62	4.84
150	OESOPHAGUS	0	0	0	0	0	0	0	0	0	0	10	12	0	8	7	2	0	59	4.61
151	STOMACH	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	15	1.17
152	SMALL INTES	0	0	0	0	0	0	0	0	0	0	2	2	1	0	4	0	0	24	1.87
153	COLON	0	0	0	0	0	0	0	0	0	0	7	3	6	0	0	0	0	1	0.81
154	RECTUM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	4	0.31
155	LIVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.39
156	GALLBLADDER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.47
157	PANCREAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
158	RETROPERITO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
159	OTHER DIG S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
160	NASAL CAVIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
161	LARYNX	0	0	0	0	0	0	0	0	0	0	2	0	1	0	1	2	0	9	0.70
162	LUNG	0	0	0	0	0	0	0	0	0	0	3	0	2	0	1	0	0	7	0.55
163	PLEURA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	9	0.70
164	THYMUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08
165	OTHER RES S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	BONE	1	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
171	CONNECTIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
172	SKIN MELANO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1.01
173	SKIN OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0.86
174	BREAST FEM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3	0.23
179	UTERUS UNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0.62
180	CERVIX UTER	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	210	16.39
181	PLACENTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0.70
182	BODY UTERUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	472	36.85
183	OVARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.47
184	VAGINA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	1.41
188	URI BLADDER	1	0	0	0	0	0	0	0	0	0	6	11	5	0	7	0	0	60	4.68
189	KIDNEY	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1.95
190	EYE	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0.55
191	BRAIN	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.23
192	NERVOUS SYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0.94
193	THYROID GLA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08
194	OTH ENDO GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0.78
195	ILL DEF SIT	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
196	SEC LYMPH N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0.62
197	SEC RES ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
198	SEC OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08
199	PRIM UNK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
200	LYMPHOSARCO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
201	HODGKINS DI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	1.87
202	OTH LYMPHOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.23
203	MULT MYELOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0.70
204	LEUK LYMPHA	1	3	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0.08
205	LEUK MYELOI	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0.70
206	LEUK MONOCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0.62
207	LEUK OTH SP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08
208	LEUK UNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
TOTAL		10	12	10	21	24	32	57	98	178	185	182	145	143	88	49	33	14	1281	100.00

POPULATION-BASED CANCER REGISTRY MADRAS																			SEX : MALES										YEAR : 1984									
AGE-SPECIFIC, WORLD AGE ADJUSTED AND TRUNCATED AGE ADJUSTED (35-64 YEARS) -																			INCIDENCE RATE PER 100,000 PERSONS																			
ICD-9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	CR	AAR	TCR																		
140	LIP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	5.1	11.4	12.6	18.9	15.8	24.5	0.0	0.0	0.2	0.2	0.7																		
141	TONGUE	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.8	5.1	11.4	12.6	18.9	15.8	24.5	14.2	9.4	2.8	4.4	9.9																		
142	SALIVARY	0.0	0.0	1.1	0.0	1.0	0.6	0.7	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0	0.5	0.6	0.9																		
143	GUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.0	2.3	0.0	4.7	0.0	4.9	0.0	18.8	0.6	1.0	1.6																		
144	FLOOR OF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.1	0.0	0.0	0.0	0.0	0.0	9.4	0.2	0.3	0.4																		
145	OTHER MOUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.1	5.7	11.0	14.2	13.2	24.5	49.6	28.2	2.8	4.8	7.7																		
146	OROPHARYNX	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.8	0.0	0.0	6.3	9.5	2.6	19.6	7.1	0.0	1.0	1.6	2.7																		
147	NASOPHARYNX	0.0	0.0	1.1	0.0	0.5	0.0	0.7	0.0	1.0	1.1	4.7	0.0	5.3	9.8	0.0	0.0	0.7	1.0	1.9																		
148	HYPOPHARYNX	0.0	0.0	0.0	0.0	0.0	1.2	2.2	0.8	3.1	10.3	11.0	14.2	7.9	29.4	42.6	18.8	2.8	4.7	7.4																		
149	PHARYNX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	0.0	0.0	0.1	0.3	0.0																		
150	ESOPHAGUS	0.0	0.0	0.0	0.0	0.5	1.2	0.0	0.8	8.2	10.3	12.6	40.3	21.1	53.8	35.5	28.2	4.1	7.3	13.7																		
151	STOMACH	0.0	0.5	0.0	0.0	1.5	0.6	2.2	5.5	12.3	13.7	47.2	66.3	60.7	63.6	35.5	65.8	8.2	13.6	30.1																		
152	SMALL INT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.1	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.7																		
153	COLON	0.0	0.0	0.0	0.6	0.0	0.0	0.7	0.0	0.0	0.0	1.6	4.7	2.6	0.0	0.0	9.4	0.4	0.7	1.2																		
154	RECTUM	0.0	0.0	0.0	0.0	1.0	2.4	1.4	1.6	3.1	3.4	4.7	9.5	5.3	14.7	7.1	28.2	1.9	2.8	4.2																		
155	LIVER	0.0	0.0	0.0	0.0	0.5	0.0	2.2	0.0	1.0	2.3	4.7	2.4	21.1	4.9	0.0	28.2	1.3	2.3	4.4																		
156	GALLBLADDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.6	2.4	0.0	0.0	0.0	0.0	0.2	0.2	0.8																		
157	PANCREAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.1	0.0	3.1	7.1	0.0	0.0	0.0	0.0	0.4	0.5	1.6																		
158	RETROPERITONEUM	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.1	2.4	2.6	0.0	0.0	0.0	0.1	0.1	0.3																		
159	OTHER DIGESTIVE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3																		
160	NASAL CAVITY	0.5	0.0	0.0	0.0	0.0	0.6	0.7	0.0	1.0	2.3	1.6	0.0	0.0	4.9	0.0	9.4	0.5	0.8	0.9																		
161	LARYNX	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.8	2.1	9.2	17.3	18.9	21.1	49.0	14.2	9.4	3.1	5.2	10.3																		
162	LUNG	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.6	9.2	12.6	20.4	40.3	39.6	39.2	56.7	47.0	5.1	9.0	18.1																		
163	PLEURA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																		
164	THYMUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																		
165	OTHER RESPIRATORY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																		
170	BONE	0.5	0.5	0.5	0.6	1.5	1.2	2.2	0.0	1.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																		
171	CONNECTIVE TISSUE	1.0	0.0	0.0	0.0	0.5	0.6	0.0	0.0	3.1	0.0	3.1	2.4	2.6	0.0	0.0	0.0	0.0	0.9	1.0																		
172	SKIN MELANOMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	1.7																		
173	SKIN OTHER	0.0	0.5	0.0	0.0	0.0	0.6	0.0	1.6	2.1	3.4	3.1	2.4	0.0	0.0	0.0	0.0	0.2	0.3	0.8																		
175	BREAST MALE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	5.3	9.8	7.1	9.4	0.9	1.4	2.2																		
185	PROSTATE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	10.6	4.9	0.0	0.0	0.2	0.3	0.9																		
186	TESTIS	0.0	0.0	0.0	0.0	0.5	0.6	1.4	0.8	2.1	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.5	1.0	1.7																		
187	PENIS ETC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0																		
188	URI BLADDER	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.8	1.0	1.1	3.1	2.4	13.2	24.5	14.2	28.2	1.8	3.0	6.2																		
189	KIDNEY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	2.4	7.9	0.0	0.0	37.6	1.1	2.2	2.1																		
190	EYE	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	1.8																		
191	BRAIN	0.0	1.0	0.5	0.6	1.0	1.8	0.7	2.4	1.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0																		
192	NERVOUS SYSTEM	0.0	0.0	0.0	0.0	0.5	0.0	0.7	0.0	0.0	1.1	1.6	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0																		
193	THYROID GLAND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	4.9	0.0	0.0	1.4	1.3	2.7																		
194	THYROID ENDOCRINE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0																		
195	ILL DEFINED	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.6	0.0	5.3	19.6	14.2	9.4	0.8	1.6	1.5																		
196	SEC LYMPHATIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																		
197	SEC RESERVOIR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																		
198	SEC OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																		
199	PRIM UNK	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.8	4.1	8.0	9.4	16.6	7.9	19.6	0.0	0.0	0.0	0.0	0.0																		
200	LYMPHOMAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																		
201	HODGKINS	0.5	1.0	2.1	1.2	0.0	0.6	1.4	1.6	1.0	2.3	1.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0																		
202	OTH LYMPH	0.5	0.5	1.1	1.2	0.5	0.0	0.0	0.0	3.1	1.1	1.6	0.0	2.6	24.5	0.0	0.0	1.1	1.1	1.5																		
203	MULT MYELOMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1	3.1	4.7	2.6	4.9	7.1	0.0	0.0	0.5	0.9																		
204	LEUK LYMPH	2.9	2.4	1.6	0.6	1.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	1.0	1.2	0.0																		
205	LEUK MYELO	1.0	0.0	0.0	0.0	0.5	1.2	1.4	1.6	3.1	1.1	1.6	0.0	5.3	0.0	0.0	0.0	0.0	1.2	2.1																		
206	LEUK MONO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																		
207	LEUK OTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																		
208	LEUK UNS	0.0	0.0	0.0	0.6	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0																		
TOTAL		7.8	6.7	8.4	6.5	14.6	13.9	25.3	31.5	82.1	127.1	215.4	324.5	298.4	479.7	333.3	422.9	54.1	86.4	161.7																		

AGE-SPECIFIC, WORLD AGE ADJUSTED AND TRUNCATED AGE ADJUSTED (35-64 YEARS) - INCIDENCE RATE PER 100,000 PERSONS																				
ICD-9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	CR	AAR	TCR
140	LIP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.1	0.2	0.3
141	TONGUE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	4.8	4.9	0.0	0.0	0.8	1.1	3.0
142	SALIVARY	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.3	0.4	1.2
143	GUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	7.2	4.9	19.0	0.0	1.0	1.6	3.5
144	FLOOR OF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3
145	OTHER MOUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.8	29.0	29.5	6.3	7.6	3.4	5.5	13.7
146	OROPHARYNX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.2	0.3	0.6
147	NASOPHARYNX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.4	0.0	0.0	0.0	0.3	0.3	0.6
148	HYPOPHARYNX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6
149	PHARYNX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.3
150	ESOPHAGUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.3
151	STOMACH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.3
152	SMALL INT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.3
153	COLON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.3
154	RECTUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.3
155	LIVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.3
156	GALLBLADDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.3
157	PANCREAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.3
158	RETROPERITONEUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.3
159	OTHER DIGESTIVE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.3
160	NASAL CAVITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161	LARYNX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162	LUNG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163	PLEURA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164	THYMUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	OTHER RESPIRATORY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	BONE	0.5	0.5	0.5	1.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171	CONNECTIVE TISSUE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172	SKIN MELANOMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173	SKIN OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174	BREAST FEMALE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179	UTERUS UNLAP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	CERVIX UNLAP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
181	PLACENTA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
182	BODY UTER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
183	OVARY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
184	VAGINA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
188	URI BLADDER	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
189	KIDNEY	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
190	EYE	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
191	BRAIN	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
192	NERVOUS SYSTEM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
193	THYROID GLAND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
194	OTHER ENDOCRINE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
195	ILL DEFINED	0.5	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
196	SEC LYMPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
197	SEC RES E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
198	SEC OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
199	PRIM UNK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200	LYMPHOSAR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
201	HODGKINS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
202	OTH LYMPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
203	MULT MYELOMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
204	LEUK LYMP	0.5	1.4	0.5	0.6	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3
205	LEUK MYELOMA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
206	LEUK MONO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
207	LEUK OTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
208	LEUK UNS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL		4.8	5.6	5.3	12.2	13.2	20.6	51.1	88.5	222.0	280.2	304.9	366.8	345.5	433.4	310.0	252.0	76.1	111.9	255.4

POPULATION-BASED CANCER REGISTRY MADRAS
INCIDENT CASES OF CANCER BY MOST VALID BASIS OF DIAGNOSIS AND SITE (ICD-9)

SEX : MALE
YEAR : 1984

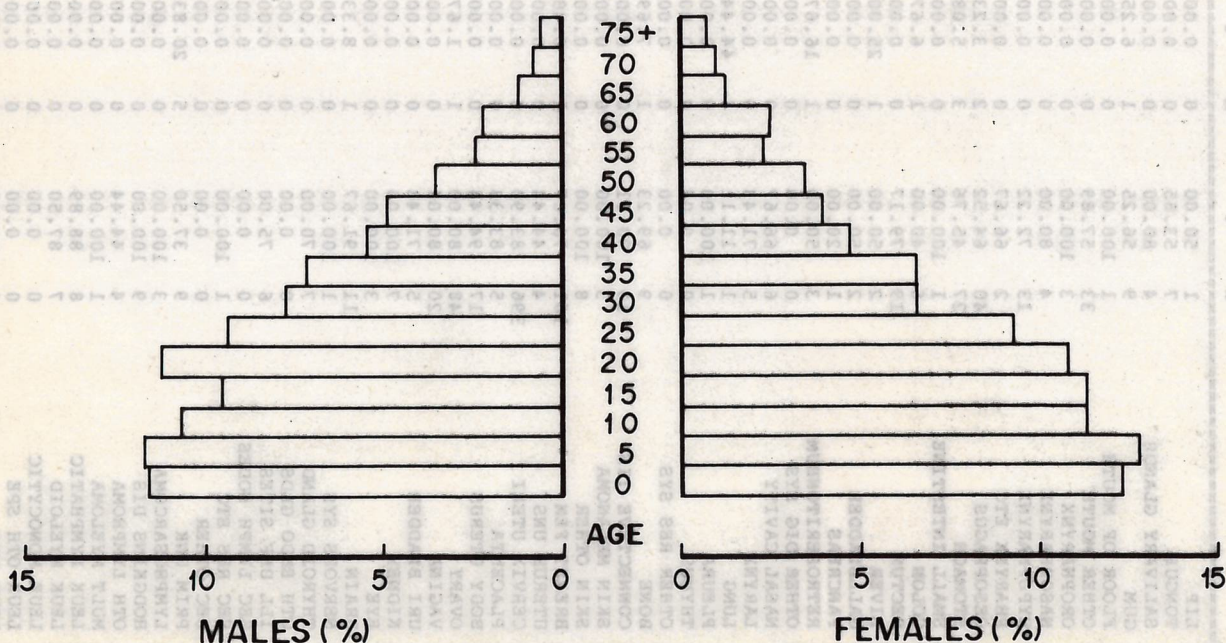
ICD 9TH	SITE	MICROSCOPIC		X-RAY		CLINICAL ONLY		OTHERS		D.C.O.		TOTALS	
		n	%	n	%	n	%	n	%	n	%	n	%
140	LIP	0	0.00	0	0.00	3	100.00	0	0.00	0	0.00	3	100.00
141	TONGUE	37	75.51	0	0.00	12	24.49	0	0.00	0	0.00	49	100.00
142	SALIVARY GLANDS	7	77.78	0	0.00	2	22.22	0	0.00	0	0.00	9	100.00
143	GUM	3	30.00	0	0.00	7	70.00	0	0.00	0	0.00	10	100.00
144	FLOOR OF MOUTH	1	33.33	0	0.00	2	66.67	0	0.00	0	0.00	3	100.00
145	OTHER MOUTH	30	61.22	0	0.00	18	36.73	0	0.00	1	2.04	49	100.00
146	OROPHARYNX	14	82.35	0	0.00	3	17.65	0	0.00	0	0.00	17	100.00
147	NASOPHARYNX	9	69.23	0	0.00	0	0.00	1	7.69	3	23.08	13	100.00
148	HYPOPHARYNX	46	92.00	1	2.00	2	4.00	1	2.00	0	0.00	50	100.00
149	PHARYNX ETC	1	50.00	0	0.00	1	50.00	0	0.00	0	0.00	2	100.00
150	ESOPHAGUS	54	73.97	2	2.74	9	12.33	3	4.11	5	6.85	73	100.00
151	STOMACH	78	53.42	7	4.79	29	19.86	22	15.07	10	6.85	146	100.00
152	SMALL INTESTINE	3	100.00	0	0.00	0	0.00	0	0.00	0	0.00	3	100.00
153	COLON	5	71.43	0	0.00	0	0.00	1	14.29	0	0.00	7	100.00
154	RECTUM	24	72.73	0	0.00	5	15.15	2	6.06	2	6.06	33	100.00
155	LIVER	10	43.48	5	21.74	5	21.74	0	0.00	3	13.04	23	100.00
156	GALLBLADDER	0	0.00	1	33.33	2	66.67	0	0.00	0	0.00	3	100.00
157	PANCREAS	6	50.00	0	0.00	1	8.33	3	25.00	2	16.67	12	100.00
158	RETROPERITONEUM	5	71.43	0	0.00	2	28.57	0	0.00	0	0.00	7	100.00
159	OTHER DIG SYS	0	0.00	0	0.00	0	0.00	1	100.00	0	0.00	1	100.00
160	NASAL CAVITY	5	55.56	1	11.11	3	33.33	0	0.00	0	0.00	9	100.00
161	LARYNX	37	67.27	1	1.82	13	23.64	2	3.64	2	3.64	55	100.00
162	LUNG	39	43.33	28	31.11	13	14.44	3	3.33	7	7.78	90	100.00
163	PLEURA	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
164	THYMUS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
165	OTHER RES SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
170	BONE	15	93.75	1	6.25	0	0.00	0	0.00	0	0.00	16	100.00
171	CONNECTIVE TIS	10	90.91	0	0.00	1	9.09	0	0.00	0	0.00	11	100.00
172	SKIN MELANOMA	3	100.00	0	0.00	0	0.00	0	0.00	0	0.00	3	100.00
173	SKIN OTHER	15	93.75	0	0.00	1	6.25	0	0.00	0	0.00	16	100.00
175	BREAST MALE	3	100.00	0	0.00	0	0.00	0	0.00	0	0.00	3	100.00
185	PROSTATE	4	50.00	0	0.00	1	12.50	0	0.00	3	37.50	8	100.00
186	TESTIS	7	87.50	0	0.00	1	12.50	0	0.00	0	0.00	8	100.00
187	PENIS ETC	27	84.38	0	0.00	5	15.63	0	0.00	0	0.00	32	100.00
188	URI BLADDER	16	84.21	0	0.00	0	0.00	0	0.00	3	15.79	19	100.00
189	KIDNEY	3	50.00	0	0.00	1	16.67	0	0.00	2	33.33	6	100.00
190	EYE	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00
191	BRAIN	19	79.17	3	12.50	1	4.17	0	0.00	1	4.17	24	100.00
192	NERVOUS SYS	3	75.00	1	25.00	0	0.00	0	0.00	0	0.00	4	100.00
193	THYROID GLAND	3	60.00	0	0.00	2	40.00	0	0.00	0	0.00	5	100.00
194	OTH ENDO GLDS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
195	ILL DEF SITES	5	35.71	0	0.00	5	35.71	0	0.00	0	0.00	10	100.00
196	SEC LYMPH NODES	0	0.00	0	0.00	0	0.00	0	0.00	4	28.57	14	100.00
197	SEC RES ETC	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
198	SEC OTHER	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
199	PRIM UNK	18	54.55	3	9.09	5	15.15	0	0.00	7	21.21	33	100.00
200	LYMPHOSARCOMA	3	75.00	0	0.00	1	25.00	0	0.00	0	0.00	4	100.00
201	HODGKINS DIS	15	78.95	0	0.00	0	0.00	0	0.00	4	21.05	19	100.00
202	OTH LYMPHOMA	13	65.00	0	0.00	4	20.00	0	0.00	3	15.00	20	100.00
203	MULT MYELOMA	2	22.22	5	55.56	1	11.11	0	0.00	1	11.11	9	100.00
204	LEUK LYMPHATIC	20	100.00	0	0.00	0	0.00	0	0.00	0	0.00	20	100.00
205	LEUK MYELOID	15	88.24	0	0.00	0	0.00	0	0.00	2	11.76	17	100.00
206	LEUK MONOCYTIC	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
207	LEUK OTH SPE	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
208	LEUK UNS	1	50.00	0	0.00	0	0.00	0	0.00	1	50.00	2	100.00
ALL SITES TOTALS		635	66.01	60	6.24	161	16.74	39	4.05	67	6.96	962	100.00

ICD 9TH	SITE	MICROSCOPIC	X-RAY	CLINICAL ONLY	OTHERS	D.C.O.	TOTALS
		n	n	n	n	n	n
140	LIP	1	0	1	0	0	2
141	TONGUE	7	0	6	0	0	13
142	SALIVARY GLANDS	4	0	4	0	0	8
143	GUM	9	1	6	0	0	16
144	FLOOR OF MOUTH	1	0	0	0	0	1
145	OTHER MOUTH	33	0	23	0	1	57
146	OROPHARYNX	3	0	0	0	0	3
147	NASOPHARYNX	4	0	1	0	0	5
148	HYPOPHARYNX	13	0	3	0	0	18
149	PHARYNX ETC	2	0	0	0	1	3
150	ESOPHAGUS	40	2	7	8	5	62
151	STOMACH	27	3	15	0	5	59
152	SMALL INTESTINE	1	0	0	0	0	1
153	COLON	6	1	4	0	4	15
154	RECTUM	19	0	3	0	2	24
155	LIVER	2	0	0	0	0	2
156	GALLBLADDER	2	0	0	0	0	2
157	PANCREAS	1	0	0	0	0	1
158	RETROPERITONEUM	3	0	2	0	0	5
159	OTHER DIG SYS	0	0	0	0	0	0
160	NASAL CAVITY	6	0	0	0	0	6
161	LARYNX	5	0	2	0	0	7
162	LUNG	1	0	1	0	1	3
163	PLEURA	1	4	1	2	1	9
164	THYMUS	0	0	0	0	0	0
165	OTHER RES SYS	0	0	0	0	0	0
170	BONE	9	1	0	0	0	10
171	CONNECTIVE TIS	10	0	1	0	0	11
172	SKIN MELANOMA	3	0	1	0	0	4
173	SKIN OTHER	8	0	0	0	0	8
174	BREAST FEM	161	1	36	0	12	210
179	UTERUS UNS	4	0	1	0	4	9
180	CERVIX UTERI	396	0	67	0	9	472
181	PLACENTA	5	0	0	0	1	6
182	BODY UTERUS	17	0	0	0	1	18
183	OVARY	48	1	7	0	4	60
184	VAGINA	20	0	5	0	0	25
188	URI BLADDER	5	0	1	0	1	7
189	KIDNEY	7	0	0	0	0	7
190	EYE	3	0	0	0	0	3
191	BRAIN	11	1	0	0	0	12
192	NERVOUS SYS	1	0	0	0	0	1
193	THYROID GLAND	7	0	1	0	0	8
194	OTH ENDO GLDS	0	0	0	0	0	0
195	ILL DEF SITES	6	0	1	0	0	7
196	SEC Lymph NODES	0	0	0	0	0	0
197	SEC RES ETC	1	0	0	0	0	1
198	SEC OTHER	0	0	0	0	0	0
199	PRIM UNK	9	0	0	0	0	9
200	LYMPHOSARCOMA	3	5	5	1	4	14
201	HODGKINS DIS	3	0	0	0	0	3
202	OTH LYMPHOMA	4	0	1	0	0	5
203	MULT MYELOMA	1	0	0	0	0	1
204	LEUK LYMPHATIC	8	0	0	0	0	8
205	LEUK MYELOID	7	0	0	0	0	7
206	LEUK MONOCYTIC	0	0	0	0	0	0
207	LEUK OTH SPE	0	0	0	0	0	0
208	LEUK UNS	2	0	0	0	0	2
ALL SITES TOTALS		956	22	204	26	73	1281
		74.63	1.72	15.93	2.03	5.70	100.00

ESTIMATED RESIDENT POPULATION BY AGE AND SEX
AS ON 1 JULY 1984 IN MADRAS
TOTAL POPULATION (ALL RELIGIOUS COMMUNITIES)

AGE-GROUP (YEARS)	MALE		FEMALE		TOTAL	
	NUMBER	%	NUMBER	%	NUMBER	%
0-4	205863	11.59	208371	12.38	414234	11.97
5-9	208213	11.72	216003	12.83	424216	12.26
10-14	189722	10.68	190336	11.30	380058	10.98
15-19	169443	9.54	172612	10.25	342055	9.88
20-24	198672	11.18	182287	10.83	380959	11.01
25-29	165742	9.33	155648	9.24	321390	9.29
30-34	138294	7.78	111629	6.63	249923	7.22
35-39	127138	7.16	110757	6.58	237895	6.87
40-44	97446	5.48	80173	4.76	177619	5.13
45-49	87339	4.92	66036	3.92	153375	4.43
50-54	63606	3.58	59689	3.54	123295	3.56
55-59	42221	2.38	39535	2.35	81756	2.36
60-64	37864	2.13	41395	2.46	79259	2.29
65-69	20429	1.15	20305	1.21	40734	1.18
70-74	14100	0.79	15806	0.94	29906	0.86
75+	10640	0.60	13096	0.78	23736	0.69
ANS	156	0.01	81	0.00	237	0.01
TOTAL	1776888	100.00	1683759	100.00	3460647	100.00

ANS = AGE NOT SPECIFIED



ESTIMATED RESIDENT POPULATION BY AGE AND SEX
IN MADRAS (AS ON JULY 1, 1984).

HOSPITAL CANCER REGISTRY: CHANDIGARH

This hospital registry is in the Post-Graduate Institute of Medical Education and Research, Chandigarh. This is a major referral and speciality-oriented medical centre. Approximately half of the cancer patients come from Chandigarh, which is situated between Punjab and Haryana, in north India, north of the Tropic of Cancer. Another 20% come from the adjoining states of Punjab, Haryana and Himachal Pradesh. The rest are drawn from Jammu & Kashmir and Western Uttar Pradesh.

According to the 1981 census, most of the population of this patient catchment area speak the Punjabi language and next most frequently spoken language is Hindi. Chandigarh's population is 450,061. Religious affiliations identify cultural and lifestyle factors; the major religious groups in this population are Sikh, Hindu and Muslim.

The registry is functional from January 1, 1982. Sources of information primarily are the departments of radiotherapy, surgery and pathology. Registry staff actively search inpatient and outpatient records to abstract information in a core proforma.

Comments: The total cases registered in 1984 were 1206 in men and 1220 in women. As in 1982 (11.8%) and 1983 (12.1%), in 1984 (10.2%) also, lung cancer is the commonest cancer in males. Lung cancer is also more common in Chandigarh, compared to the other registries. Next in frequency are lymphomas, oesophageal, laryngeal, colon and rectum and leukemia cancers. Commonest cancers in women are cervical and breast (38.9% and 13.7%) respectively.

Dr. B. D. GUPTA, Project Chief

Mr. S. P. S. BHATIA, Bio-statistician

HOSPITAL CANCER REGISTRY CHANDIGARH SEX : MALE YEAR : 1984
CANCER CASES BY AGE AND SITE (ICD.9), AND PERCENTAGES

ICD.9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140	LIP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08
141	TONGUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	4.89
142	SALIVARY GL	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	1.33
143	GUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0.66
144	FLOOR OF MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.33
145	OTHER MOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	1.99
146	OROPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	3.48
147	NASOPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1.00
148	HYPOPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	5.14
149	PHARYNX ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	1.16
150	ESOPHAGUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	6.30
151	STOMACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	3.73
152	SMALL INTES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08
153	COLON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	1.82
154	RECTUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	3.90
155	LIVER	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	1.16
156	GALLBLADDER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0.91
157	PANCREAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1.08
158	RETROPERITO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08
159	OTHER DIG S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.17
160	NASAL CAVIT	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1.66
161	LARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	5.80
162	LUNG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	10.20
163	PLEURA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
164	THYMUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
165	OTHER RES S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	BONE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	1.49
171	CONNECTIVE	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	2.40
172	SKIN MELANO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.50
173	SKIN OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	2.49
175	BREAST MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.33
185	PROSTATE	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	2.16
186	TESTIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	2.24
187	PENIS ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	1.82
188	URI BLADDER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	1.99
189	KIDNEY	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	1.16
190	EYE	8	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	1.33
191	BRAIN	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	3.81
192	NERVOUS SYS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.25
193	THYROID GLA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.50
194	OTH ENDO GL	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.33
195	ILL DEF SIT	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1.00
196	SEC LYMPH N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	1.74
197	SEC RES ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	2.16
198	SEC OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0.83
199	PRIM UNK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08
200	LYMPHOSARCO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	3.73
201	HODGKINS DI	0	5	4	3	5	4	2	1	1	1	1	1	1	1	1	1	0	29	2.40
202	OTH LYMPHOM	3	2	0	1	1	3	3	1	1	1	1	1	1	1	1	1	0	23	1.91
203	MULT MYELOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1.08
204	LEUK LYMPHA	11	6	9	5	3	3	1	1	1	1	1	1	1	1	1	1	0	41	3.40
205	LEUK MYELOI	0	2	4	2	5	0	0	0	0	0	0	0	0	0	0	0	0	20	1.66
206	LEUK MONOCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
207	LEUK OTH SP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
208	LEUK UNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.25
TOTAL		37	30	31	33	46	46	49	79	95	104	164	143	146	98	72	33	0	1206	100.00

HOSPITAL CANCER REGISTRY CHANDIGARH SEX : FEMALE YEAR : 1984
CANCER CASES BY AGE AND SITE (ICD-9), AND PERCENTAGES

ICD-9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140	LIP	0	0	0	0	0	0	0	1	2	0	0	1	1	0	2	0	0	5	0.41
141	TONGUE	0	0	0	0	0	0	0	1	2	0	0	4	0	1	1	0	0	19	1.56
142	SALIVARY GL	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.08
143	GUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.33
144	FLOOR OF MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
145	OTHER MOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
146	OROPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1.07
147	NASOPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0.82
148	HYPOPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.49
149	PHARYNX ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	2.30
150	OESOPHAGUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.25
151	STOMACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	5.74
152	SMALL INTES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	1.39
153	COLON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08
154	RECTUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.49
155	LIVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	1.39
156	GALLBLADDER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08
157	PANCREAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	2.46
158	RETROPERITO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0.90
159	OTHER DIG S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
160	NASAL CAVIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08
161	LARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0.98
162	LUNG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1.07
163	PLEURA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	1.31
164	THYMUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08
165	OTHER RES S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	BONE	0	1	2	3	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.00
171	CONNECTIVE	1	2	3	1	1	1	1	0	0	0	0	0	0	0	0	0	0	10	0.82
172	SKIN MELANO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	1.80
173	SKIN OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.33
174	BREAST FEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	1.72
179	UTERUS UNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	167	13.69
180	CERVIX UTER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
181	PLACENTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	474	38.85
182	BODY UTERUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08
183	OVARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	1.72
184	VAGINA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	4.02
188	URI BLADDER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0.74
189	KIDNEY	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.49
190	EYE	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0.90
191	BRAIN	1	1	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	2	0.16
192	NERVOUS SYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1.64
193	THYROID GLA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.16
194	OTH ENDO GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	1.31
195	ILL DEF SIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
196	SEC LYMPH N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0.82
197	SEC RES ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	1.39
198	SEC OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0.98
199	PRIM UNK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
200	LYMPHOSARCO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1.07
201	HODGKINS DI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0.57
202	OTH LYMPHOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.33
203	MULT MYELOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0.66
204	LEUK LYMPHA	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0.98
205	LEUK MYELOI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0.57
206	LEUK MONOCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
207	LEUK OTH SP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
208	LEUK UNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08
TOTAL																			1220	100.00

HOSPITAL CANCER REGISTRY CHANDICGARH SEX : MALE YEAR : 1984
CASES OF CANCER BY METHOD OF DIAGNOSIS AND SITE (ICD-9)

ICD 9TH	SITE	MICROSCOPIC		X-RAY		CLINICAL ONLY		OTHERS		TOTALS	
		n	%	n	%	n	%	n	%	n	%
140	LIP	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
141	TONGUE	59	100.00	0	0.00	0	0.00	0	0.00	59	100.00
142	SALIVARY GLANDS	15	93.75	0	0.00	1	6.25	0	0.00	16	100.00
143	GUM	7	87.50	1	12.50	0	0.00	0	0.00	8	100.00
144	FLOOR OF MOUTH	4	100.00	0	0.00	0	0.00	0	0.00	4	100.00
145	OTHER MOUTH	23	95.83	0	0.00	1	4.17	0	0.00	24	100.00
146	OROPHARYNX	42	100.00	0	0.00	0	0.00	0	0.00	42	100.00
147	NASOPHARYNX	10	83.33	0	0.00	1	8.33	1	8.33	12	100.00
148	HYPOPHARYNX	60	96.77	0	0.00	0	0.00	2	3.23	62	100.00
149	PHARYNX ETC	13	92.86	0	0.00	0	0.00	1	7.14	14	100.00
150	ESOPHAGUS	62	81.58	7	9.21	0	0.00	7	9.21	76	100.00
151	STOMACH	41	91.11	0	0.00	0	0.00	4	8.89	45	100.00
152	SMALL INTESTINE	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
153	COLON	19	86.36	0	0.00	0	0.00	3	13.64	22	100.00
154	RECTUM	42	89.36	0	0.00	4	8.51	1	2.13	47	100.00
155	LIVER	13	92.86	0	0.00	0	0.00	1	7.14	14	100.00
156	GALLBLADDER	11	100.00	0	0.00	0	0.00	0	0.00	11	100.00
157	PANCREAS	5	38.46	2	15.38	0	0.00	6	46.15	13	100.00
158	RETROPERITONEUM	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
159	OTHER DIG SYS	1	50.00	0	0.00	0	0.00	1	50.00	2	100.00
160	NASAL CAVITY	20	100.00	0	0.00	0	0.00	0	0.00	20	100.00
161	LARYNX	67	95.71	0	0.00	0	0.00	3	4.29	70	100.00
162	LUNG	107	86.99	12	9.76	0	0.00	4	3.25	123	100.00
163	PLEURA	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
164	THYMUS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
165	OTHER RES SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
170	BONE	18	100.00	0	0.00	0	0.00	0	0.00	18	100.00
171	CONNECTIVE TIS	29	100.00	0	0.00	0	0.00	0	0.00	29	100.00
172	SKIN MELANOMA	6	100.00	0	0.00	0	0.00	0	0.00	6	100.00
173	SKIN OTHER	30	100.00	0	0.00	0	0.00	0	0.00	30	100.00
175	BREAST MALE	4	100.00	0	0.00	0	0.00	0	0.00	4	100.00
175	PROSTATE	26	100.00	0	0.00	0	0.00	0	0.00	26	100.00
185	TESTIS	27	100.00	0	0.00	0	0.00	0	0.00	27	100.00
186	PENIS ETC	20	90.91	0	0.00	2	9.09	0	0.00	22	100.00
187	URI BLADDER	24	100.00	0	0.00	0	0.00	0	0.00	24	100.00
188	KIDNEY	14	100.00	0	0.00	0	0.00	0	0.00	14	100.00
189	EYE	16	100.00	0	0.00	0	0.00	0	0.00	16	100.00
190	BRAIN	39	84.78	3	6.52	0	0.00	4	8.70	46	100.00
191	NERVOUS SYS	3	100.00	0	0.00	0	0.00	0	0.00	3	100.00
192	THYROID GLAND	6	100.00	0	0.00	0	0.00	0	0.00	6	100.00
193	OTH ENDO GLDS	4	100.00	0	0.00	0	0.00	0	0.00	4	100.00
194	ILL DEF SITES	8	66.67	0	0.00	4	33.33	0	0.00	12	100.00
195	SEC LYMPH NODES	21	100.00	0	0.00	0	0.00	0	0.00	21	100.00
196	SEC RES ETC	25	96.15	0	0.00	0	0.00	1	3.85	26	100.00
197	SEC OTHER	7	70.00	2	20.00	0	0.00	1	10.00	10	100.00
198	PRIM UNK	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
199	LYMPHOSARCOMA	45	100.00	0	0.00	0	0.00	0	0.00	45	100.00
200	HODGKINS DIS	29	100.00	0	0.00	0	0.00	0	0.00	29	100.00
201	OTH LYMPHOMA	23	100.00	0	0.00	0	0.00	0	0.00	23	100.00
202	MULT MYELOMA	13	100.00	0	0.00	0	0.00	0	0.00	13	100.00
203	LEUK LYMPHATIC	41	100.00	0	0.00	0	0.00	0	0.00	41	100.00
204	LEUK MYELOID	20	100.00	0	0.00	0	0.00	0	0.00	20	100.00
205	LEUK MONOCYTIC	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
206	LEUK OTH SPE	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
207	LEUK UNS	3	100.00	0	0.00	0	0.00	0	0.00	3	100.00
208	ALL SITES TOTALS	1126	93.37	27	2.24	13	1.08	40	3.32	1206	100.00

HOUSTON CANCER REGISTRY CHANUNGAKH SEX : FEMALE YEAR : 1984
CASES OF CANCER BY METHOD OF DIAGNOSIS AND SITE (ICD-9)

ICD 9TH	SITE	MICROSCOPIC		X-RAY		CLINICAL ONLY		OTHERS		TOTALS	
		n	%	n	%	n	%	n	%	n	%
140	LIP	5	100.00	0	0.00	0	0.00	0	0.00	5	100.00
141	TONGUE	18	94.74	0	0.00	1	5.26	0	0.00	19	100.00
142	SALIVARY GLANDS	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
143	GUM	4	100.00	0	0.00	0	0.00	0	0.00	4	100.00
144	FLOOR OF MOUTH	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
145	OTHER MOUTH	10	76.92	0	0.00	3	23.08	0	0.00	13	100.00
146	OROPHARYNX	10	100.00	0	0.00	0	0.00	0	0.00	10	100.00
147	NASOPHARYNX	5	83.33	0	0.00	0	0.00	1	16.67	6	100.00
148	HYPOPHARYNX	26	92.86	0	0.00	0	0.00	2	7.14	28	100.00
149	PHARYNX ETC	3	100.00	0	0.00	0	0.00	0	0.00	3	100.00
150	OESOPHAGUS	63	90.00	1	1.43	0	0.00	6	8.57	70	100.00
151	STOMACH	15	88.24	0	0.00	0	0.00	2	11.76	17	100.00
152	SMALL INTESTINE	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
153	COLON	6	100.00	0	0.00	0	0.00	0	0.00	6	100.00
154	RECTUM	17	100.00	0	0.00	0	0.00	0	0.00	17	100.00
155	LIVER	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
156	GALLBLADDER	23	76.67	0	0.00	0	0.00	0	0.00	23	100.00
157	PANCREAS	5	45.45	1	3.33	1	9.09	4	36.36	11	100.00
158	RETROPERITONEUM	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
159	OTHER DIG SYS	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
160	NASAL CAVITY	12	100.00	0	0.00	0	0.00	0	0.00	12	100.00
161	LARYNX	11	84.62	0	0.00	0	0.00	2	15.38	13	100.00
162	LUNG	12	75.00	1	6.25	0	0.00	3	18.75	16	100.00
163	PLEURA	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
164	THYMUS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
165	OTHER RES SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
170	BONE	10	100.00	0	0.00	0	0.00	0	0.00	10	100.00
171	CONNECTIVE TIS	22	100.00	0	0.00	0	0.00	0	0.00	22	100.00
172	SKIN MELANOMA	4	100.00	0	0.00	0	0.00	0	0.00	4	100.00
173	SKIN OTHER	21	100.00	0	0.00	0	0.00	0	0.00	21	100.00
174	BREAST FEM	161	96.41	1	0.60	4	2.40	1	0.60	167	100.00
179	UTERUS UNS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
180	CERVIX UTERI	454	95.78	0	0.00	20	4.22	0	0.00	474	100.00
181	PLACENTA	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
182	BODY UTERUS	21	100.00	0	0.00	0	0.00	0	0.00	21	100.00
183	OVARY	45	91.84	0	0.00	1	2.04	3	6.12	49	100.00
184	VAGINA	8	88.89	0	0.00	1	11.11	0	0.00	9	100.00
188	URI BLADDER	6	100.00	0	0.00	0	0.00	0	0.00	6	100.00
189	KIDNEY	11	100.00	0	0.00	0	0.00	0	0.00	11	100.00
190	EYE	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
191	BRAIN	16	80.00	1	5.00	0	0.00	3	15.00	20	100.00
192	NERVOUS SYS	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
193	THYROID GLAND	15	93.75	0	0.00	1	6.25	0	0.00	16	100.00
194	OTH ENDO GLDS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
195	ILL DEF SITES	9	90.00	0	0.00	1	10.00	0	0.00	10	100.00
196	SEC LYMPH NODES	9	100.00	0	0.00	0	0.00	0	0.00	9	100.00
197	SEC RES ETC	16	94.12	0	0.00	1	5.88	0	0.00	17	100.00
198	SEC OTHER	11	91.67	1	8.33	0	0.00	0	0.00	12	100.00
199	PRIM UNK	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
200	LYMPHOSARCOMA	13	100.00	0	0.00	0	0.00	0	0.00	13	100.00
201	HODGKINS DIS	7	100.00	0	0.00	0	0.00	0	0.00	7	100.00
202	OTH LYMPHOMA	4	100.00	0	0.00	0	0.00	0	0.00	4	100.00
203	MULT MYELOMA	8	100.00	0	0.00	0	0.00	0	0.00	8	100.00
204	LEUK LYMPHATIC	12	100.00	0	0.00	0	0.00	0	0.00	12	100.00
205	LEUK MYELOID	7	100.00	0	0.00	0	0.00	0	0.00	7	100.00
206	LEUK MONOCYTIC	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
207	LEUK OTH SPE	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
208	LEUK UNS	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
ALL SITES TOTALS		1146		7		34		33		1220	
		93.93		0.57		2.79		2.70		100.00	

HOSPITAL CANCER REGISTRY CHANDIGARH
CANCER CASES BY EXTENT OF DISEASE
YEAR : 1984

ICD 9TH	SITE	MALES					FEMALES					TOTALS				
		LOCA	RLN	DISMET	OTH	%	LOCA	RLN	DISMET	OTH	%	TOTALS	%	OTH	%	n
140	LIP	0.0	100.0	0.0	0.0	100.0	0.0	80.0	0.0	20.0	100.0	100.0	100.0	0.0	100.0	5
141	TONGUE	10.2	88.1	0.0	1.7	100.0	15.8	73.7	5.3	5.3	100.0	100.0	100.0	0.0	100.0	19
142	SALIVARY GLANDS	18.8	68.8	0.0	12.5	100.0	100.0	0.0	0.0	0.0	100.0	100.0	100.0	0.0	100.0	1
143	GUM	0.0	100.0	0.0	0.0	100.0	50.0	50.0	0.0	0.0	100.0	100.0	100.0	0.0	100.0	4
144	FLOOR OF MOUTH	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
145	OTHER MOUTH	16.7	83.3	0.0	0.0	100.0	24	76.9	0.0	7.7	100.0	100.0	100.0	0.0	100.0	13
146	OROPHARYNX	4.8	92.9	0.0	2.4	100.0	0.0	90.0	0.0	10.0	100.0	100.0	100.0	0.0	100.0	10
147	NASOPHARYNX	0.0	100.0	0.0	0.0	100.0	0.0	83.3	16.7	0.0	100.0	100.0	100.0	0.0	100.0	6
148	HYPOPHARYNX	3.2	90.3	1.6	4.8	100.0	10.7	85.7	0.0	3.6	100.0	100.0	100.0	0.0	100.0	28
149	PHARYNX ETC	0.0	100.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0	100.0	100.0	100.0	0.0	100.0	3
150	ESOPHAGUS	11.8	72.4	7.9	7.9	100.0	10.0	84.3	4.3	1.4	100.0	100.0	100.0	0.0	100.0	70
151	STOMACH	4.4	66.7	28.9	0.0	100.0	0.0	58.8	41.2	0.0	100.0	100.0	100.0	0.0	100.0	17
152	SMALL INTESTINE	0.0	0.0	0.0	100.0	100.0	0.0	0.0	100.0	0.0	100.0	100.0	100.0	0.0	100.0	1
153	COLON	0.0	63.6	4.5	31.8	100.0	0.0	66.7	0.0	33.3	100.0	100.0	100.0	0.0	100.0	6
154	RECTUM	4.3	61.7	21.3	12.8	100.0	0.0	70.6	23.5	5.9	100.0	100.0	100.0	0.0	100.0	17
155	LIVER	0.0	7.1	0.0	92.9	100.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	0.0	100.0	1
156	GALLBLADDER	9.1	18.2	72.7	0.0	100.0	3.3	23.3	73.3	0.0	100.0	100.0	100.0	0.0	100.0	30
157	PANCREAS	0.0	46.2	53.8	0.0	100.0	0.0	45.5	45.5	9.1	100.0	100.0	100.0	0.0	100.0	11
158	RETROPERITONEUM	0.0	0.0	0.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
159	OTHER DIG SYS	0.0	100.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0	100.0	100.0	100.0	0.0	100.0	1
160	NASAL CAVITY	20.0	75.0	0.0	5.0	100.0	0.0	91.7	8.3	0.0	100.0	100.0	100.0	0.0	100.0	12
161	LARYNX	8.6	84.3	1.4	5.7	100.0	15.4	84.6	0.0	0.0	100.0	100.0	100.0	0.0	100.0	13
162	LUNG	1.6	78.0	17.9	2.4	100.0	0.0	62.5	37.5	0.0	100.0	100.0	100.0	0.0	100.0	16
163	PLEURA	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	100.0	100.0	0.0	100.0	1
164	THYMUS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
165	OTHER RES SYS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
170	BONE	16.7	55.6	5.6	22.2	100.0	0.0	70.0	10.0	20.0	100.0	100.0	100.0	0.0	100.0	10
171	CONNECTIVE TIS	3.4	41.4	10.3	44.8	100.0	9.1	54.5	4.5	31.8	100.0	100.0	100.0	0.0	100.0	22
172	SKIN MELANOMA	0.0	16.7	0.0	83.3	100.0	25.0	50.0	0.0	25.0	100.0	100.0	100.0	0.0	100.0	4
173	SKIN OTHER	36.7	46.7	0.0	16.7	100.0	28.6	42.9	0.0	28.6	100.0	100.0	100.0	0.0	100.0	21
174	BREAST FEM	0.0	0.0	0.0	0.0	0.0	7.2	34.7	10.8	47.3	100.0	100.0	100.0	0.0	100.0	167
175	BREAST MALE	0.0	50.0	0.0	50.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
179	UTERUS UNS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
180	CERVIX UTERI	0.0	0.0	0.0	0.0	0.0	2.5	89.7	1.9	5.9	100.0	100.0	100.0	0.0	100.0	474
181	PLACENTA	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	100.0	100.0	0.0	100.0	1
182	BODY UTERUS	0.0	0.0	0.0	0.0	0.0	33.3	28.6	4.8	33.3	100.0	100.0	100.0	0.0	100.0	21
183	OVARY	0.0	0.0	0.0	0.0	0.0	10.2	32.7	18.4	38.8	100.0	100.0	100.0	0.0	100.0	49
184	VAGINA	0.0	0.0	0.0	0.0	0.0	22.2	55.6	11.1	11.1	100.0	100.0	100.0	0.0	100.0	9
185	PROSTATE	57.7	23.1	11.5	7.7	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
186	TESTIS	14.8	11.1	7.4	66.7	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
187	PENIS ETC	9.1	59.1	0.0	31.8	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
188	URI BLADDER	33.3	50.0	0.0	16.7	100.0	0.0	83.3	0.0	16.7	100.0	100.0	100.0	0.0	100.0	6
189	KIDNEY	28.6	35.7	0.0	35.7	100.0	9.1	45.5	9.1	36.4	100.0	100.0	100.0	0.0	100.0	11
190	EYE	12.5	62.5	6.3	18.8	100.0	0.0	100.0	0.0	0.0	100.0	100.0	100.0	0.0	100.0	2
191	BRAIN	41.3	54.3	0.0	4.3	100.0	40.0	60.0	0.0	0.0	100.0	100.0	100.0	0.0	100.0	20
192	NERVOUS SYS	33.3	66.7	0.0	0.0	100.0	0.0	100.0	0.0	0.0	100.0	100.0	100.0	0.0	100.0	2
193	THYROID GLAND	33.3	16.7	25.0	33.3	100.0	31.3	62.5	0.0	6.3	100.0	100.0	100.0	0.0	100.0	16
194	OTH ENDO GLDS	25.0	0.0	25.0	50.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
195	ILL DEF SITES	0.0	16.7	33.3	50.0	100.0	0.0	10.0	80.0	10.0	100.0	100.0	100.0	0.0	100.0	10
196	SEC LYMPH NODES	0.0	0.0	0.0	100.0	100.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	0.0	100.0	9
197	SEC RES ETC	0.0	0.0	100.0	0.0	100.0	0.0	0.0	94.1	5.9	100.0	100.0	100.0	0.0	100.0	17
198	SEC OTHER	0.0	0.0	100.0	0.0	100.0	0.0	0.0	91.7	8.3	100.0	100.0	100.0	0.0	100.0	12
199	PRIM UNK	0.0	0.0	0.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
200-208		11.5	65.5	0.0	23.0	100.0	5.8	71.2	0.0	23.1	100.0	100.0	100.0	0.0	100.0	52
		11.3	62.9	10.0	15.8	100.0	7.0	67.0	10.4	15.7	100.0	1206	100.0	15.7	100.0	1220

HOSPITAL CANCER REGISTRY: DIBRUGARH

This hospital registry, located in the Assam Medical College in Dibrugarh, has been functional since 1st February 1982. Since this medical institution is the only one till recently, in North-East India with cancer management facilities, patients are drawn from a large hinterland. The area of the Assam Valley, is about 58,274 square kilometers from 25° to 27° N and 89° to 96° E.

People in the region use a variety of languages and dialects, some of which are Indo-European in origin and others related to the Tibeto-Burmese languages. The entire area is very large with about 23 million people of diverse ethnic origins, including caucasoid, mongoloid, and genetic mixtures. Religious communities include Hindus, Muslims, Christians; other subgroups are plains people, hill people and tribal people; each with distinctive cultures and life styles.

Cancer registry data is obtained primarily from an oncology service with outpatient and inpatient sections, from the departments of pathology, radiology and medical records.

Comments: 863 male and 335 female cancer cases were finally registered in 1984 compared to 902 male and 324 female in 1982 and 888 male and 379 female in 1983. The marked (about 2.5:1) male to female preponderance remains; its cause may lie in socio-cultural factors not yet identified.

Commonest cancers in men are oesophageal, hypoharyngeal, oropharyngeal and lingual.

In women, the commonest cancers are of the cervix uteri, oesophagus and breast.

Overall, for both sexes, cancers of the upper aerodigestive tract are strikingly common, more than in the other Indian registries.

In Assam the areca (betel) nut ("TAMOL") which is chewed differs from that consumed elsewhere in India ("Supari"). Tamol is prepared by keeping about four months in an underground pit lined with straw and palm leaves. Tamol contains very high levels of arecoline.

Dr. M. A. CHOWDHURY, Project Chief
Dr. M. S. ALI, Bio-Statistician

HOSPITAL CANCER REGISTRY DIBRUGARH SEX : MALE YEAR : 1984
CANCER CASES BY AGE AND SITE (ICD-9), AND PERCENTAGES

ICD-9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140	LIP	0	0	0	0	0	0	0	1	0	1	1	3	1	0	0	1	0	8	0.93
141	TONGUE	0	0	0	0	0	0	1	5	0	8	14	8	13	5	0	2	0	61	7.07
142	SALIVARY GL	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0.12
143	GUM	0	0	0	0	0	1	0	0	1	2	1	1	1	0	2	0	0	10	1.16
144	FLOOR OF MO	0	0	0	0	0	0	0	0	2	1	1	0	2	0	0	0	0	7	0.81
145	OTHER MOUTH	0	0	0	0	0	0	0	2	1	5	6	1	5	3	2	0	0	25	2.90
146	OROPHARYNX	0	0	0	0	0	0	0	8	12	15	12	16	8	7	2	1	0	81	9.39
147	NASOPHARYNX	0	0	1	1	1	0	2	2	3	3	3	1	1	1	0	0	0	18	2.09
148	HYPOPHARYNX	0	0	0	0	0	6	2	6	15	28	30	25	11	9	8	3	0	143	16.57
149	PHARYNX ETC	0	0	0	0	0	1	0	1	3	8	4	3	2	4	1	0	0	27	3.13
150	ESOPHAGUS	0	0	0	0	0	0	5	8	18	26	29	34	23	7	8	1	0	159	18.42
151	STOMACH	0	0	0	0	0	2	2	8	5	7	9	7	11	0	1	1	0	53	6.14
152	SMALL INTES	0	0	0	0	0	1	0	0	0	1	0	1	0	1	0	0	0	4	0.46
153	COLON	0	0	1	0	0	1	1	2	0	0	0	2	2	1	0	1	0	11	1.27
154	RECTUM	0	0	0	0	0	3	0	0	0	0	1	1	2	0	2	0	0	9	1.04
155	LIVER	0	0	0	0	0	0	0	0	2	2	2	1	2	1	0	0	0	11	1.27
156	GALLBLADDER	0	0	0	0	0	0	0	0	1	1	1	1	2	1	0	0	0	5	0.58
157	PANCREAS	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	3	0.35
158	RETROPERITO	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.35
159	OTHER DIG S	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.00
160	NASAL CAVIT	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0.23
161	LARYNX	0	0	0	0	0	0	1	2	4	2	7	5	5	2	1	0	0	31	3.59
162	LUNG	0	0	0	0	0	0	0	1	2	8	7	7	11	4	2	0	0	42	4.87
163	PLEURA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0.12
164	THYMUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.23
165	OTHER RES S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	BONE	1	0	1	1	1	0	0	1	1	1	0	1	2	0	0	0	0	10	1.16
171	CONNECTIVE	0	0	1	1	0	0	0	0	0	1	0	0	1	1	0	0	0	6	0.70
172	SKIN MELANO	0	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	0	2	0.23
173	SKIN OTHER	0	0	1	0	1	0	1	1	1	3	3	2	1	0	0	0	0	13	1.51
175	BREAST MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
185	PROSTATE	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	3	0.35
186	TESTIS	0	0	0	0	1	2	1	0	0	0	1	0	0	0	0	0	0	5	0.58
187	PENIS ETC	0	0	0	0	0	0	0	0	2	0	1	2	0	0	0	0	0	10	1.16
188	URI BLADDER	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.12
189	KIDNEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
190	EYE	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.35
191	BRAIN	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.00
192	NERVOUS SYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
193	THYROID GLA	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0.23
194	OTH ENDO GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
195	ILL DEF SIT	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0.35
196	SEC LYMPH N	0	0	0	0	0	0	1	1	9	12	9	5	6	2	2	4	0	56	6.49
197	SEC RES ETC	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	3	0.35
198	SEC OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
199	PRIM UNK	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.12
200	LYMPHOSARCO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
201	HODGKINS DI	0	0	1	2	0	0	1	0	0	0	0	0	0	1	0	0	0	5	0.58
202	OTH LYMPHOM	0	0	0	0	0	2	1	1	1	0	0	0	2	1	0	0	0	10	1.16
203	MULT MYELOM	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	4	0.46
204	LEUK LYMPHA	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.23
205	LEUK MYELOI	0	0	1	0	1	1	0	0	1	2	0	0	0	0	0	0	0	6	0.70
206	LEUK MONOCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.12
207	LEUK OTH SP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
208	LEUK UNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
TOTAL		2	2	7	9	8	26	25	59	92	139	147	133	116	52	32	14	0	863	100.00

CANCER CASES BY AGE AND SITE (ICD-9), AND PERCENTAGES

ICD-9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140	LIP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
141	TONGUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	2.09
142	SALIVARY GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
143	GUM	0	0	0	0	0	0	0	0	2	1	3	0	0	0	1	1	0	8	2.39
144	FLOOR OF MO	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	3	0.90
145	OTHER MOUTH	0	0	0	0	0	0	0	0	0	2	5	0	1	2	0	0	0	11	3.28
146	OROPHARYNX	0	0	0	0	0	2	0	0	4	3	4	1	0	1	1	0	0	16	4.78
147	NASOPHARYNX	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.30
148	HYPOPHARYNX	0	0	0	0	0	0	0	2	2	3	3	1	0	1	0	0	0	11	3.28
149	PHARYNX ETC	0	0	0	0	0	1	0	0	1	6	11	10	8	3	0	0	0	6	1.79
150	ESOPHAGUS	0	0	0	0	0	0	1	3	6	14	11	10	8	3	0	1	0	57	17.01
151	STOMACH	0	0	0	0	0	0	2	0	1	6	8	2	0	0	1	1	0	21	6.27
152	SMALL INTES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
153	COLON	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0.60
154	RECTUM	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	4	1.19
155	LIVER	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	3	0.90
156	GALLBLADDER	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	5	1.49
157	PANCREAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
158	RETROPERITO	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0.90
159	OTHER DIG S	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.30
160	NASAL CAVIT	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0.60
161	LARYNX	0	0	0	0	0	0	0	1	1	2	0	1	0	0	0	0	0	5	1.49
162	LUNG	0	0	0	0	0	0	0	0	1	2	0	0	1	1	0	0	0	5	1.49
163	PLEURA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
164	THYMUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
165	OTHER RES S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	BONE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
171	CONNECTIVE	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.30
172	SKIN MELANO	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0.60
173	SKIN OTHER	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	0.90
174	BREAST FEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1.19
179	UTERUS UNS	0	0	0	0	0	2	5	3	4	5	4	6	2	2	0	0	0	33	9.85
180	CERVIX UTER	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0.30
181	PLACENTA	0	0	0	0	0	0	0	0	12	9	9	7	4	0	0	1	0	62	18.51
182	BODY UTERUS	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.00
183	OVARY	0	0	1	0	0	1	1	0	2	3	2	1	2	1	0	0	0	14	4.18
184	VAGINA	0	0	0	0	0	0	0	0	1	0	2	1	1	1	0	0	0	6	1.79
188	URI BLADDER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.30
189	KIDNEY	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.30
190	EYE	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.30
191	BRAIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
192	NERVOUS SYS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.30
193	THYROID GLA	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2	0.60
194	OTH ENDO GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.60
195	ILL DEF SIT	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.60
196	SEC LYMPH N	0	0	0	0	0	0	1	0	0	4	2	2	0	0	0	0	0	9	2.69
197	SEC RES ETC	0	0	0	0	0	1	0	0	1	2	0	1	3	0	0	0	0	8	2.39
198	SEC OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
199	PRIM UNK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
200	LYMPHOSARCO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
201	HODGKINS DI	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0.30
202	OTH LYMPHOM	1	0	0	0	0	0	0	0	1	2	0	1	0	0	0	0	0	7	2.09
203	MULT MYELOM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0.00
204	LEUK LYMPHA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.30
205	LEUK MYELOI	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0.60
206	LEUK MONOCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
207	LEUK OTH SP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
208	LEUK UNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
TOTAL		4	0	2	3	5	13	19	25	44	66	62	43	28	12	3	6	0	335	100.00

HOSPITAL CANCER REGISTRY DIBRUGARH SEX : MALE YEAR : 1984
CASES OF CANCER BY METHOD OF DIAGNOSIS AND SITE (ICD-9)

ICD 9TH	SITE	MICROSCOPIC		X-RAY		CLINICAL ONLY		OTHERS		TOTALS	
		n	%	n	%	n	%	n	%	n	%
140	LIP	7	87.50	0	0.00	0	0.00	1	12.50	8	100.00
141	TONGUE	61	100.00	0	0.00	0	0.00	0	0.00	61	100.00
142	SALIVARY GLANDS	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
143	GUM	9	90.00	1	10.00	0	0.00	0	0.00	10	100.00
144	FLOOR OF MOUTH	7	100.00	0	0.00	0	0.00	0	0.00	7	100.00
145	OTHER MOUTH	24	96.00	0	0.00	0	0.00	1	4.00	25	100.00
146	OROPHARYNX	81	100.00	0	0.00	0	0.00	0	0.00	81	100.00
147	NASOPHARYNX	17	94.44	1	5.56	0	0.00	0	0.00	18	100.00
148	HYPOPHARYNX	143	100.00	0	0.00	0	0.00	0	0.00	143	100.00
149	PHARYNX ETC	27	100.00	0	0.00	0	0.00	0	0.00	27	100.00
150	ESOPHAGUS	97	61.01	62	38.99	0	0.00	0	0.00	159	100.00
151	STOMACH	28	52.83	15	28.30	0	0.00	10	18.87	53	100.00
152	SMALL INTESTINE	3	75.00	0	0.00	0	0.00	1	25.00	4	100.00
153	COLON	9	81.82	0	0.00	0	0.00	2	18.18	11	100.00
154	RECTUM	8	88.89	1	11.11	0	0.00	1	9.09	9	100.00
155	LIVER	8	72.73	0	0.00	2	18.18	1	9.09	11	100.00
156	GALLBLADDER	3	60.00	0	0.00	0	0.00	2	40.00	5	100.00
157	PANCREAS	1	33.33	0	0.00	0	0.00	2	66.67	3	100.00
158	RETROPERITONEUM	2	66.67	0	0.00	0	0.00	1	33.33	3	100.00
159	OTHER DIG SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
160	NASAL CAVITY	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
161	LARYNX	31	100.00	0	0.00	0	0.00	0	0.00	31	100.00
162	LUNG	12	28.57	27	64.29	2	4.76	1	2.38	42	100.00
163	PLEURA	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
164	THYMUS	0	0.00	2	100.00	0	0.00	0	0.00	2	100.00
165	OTHER RES SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
170	BONE	7	70.00	1	10.00	0	0.00	2	20.00	10	100.00
171	CONNECTIVE TIS	5	83.33	1	16.67	0	0.00	0	0.00	6	100.00
172	SKIN MELANOMA	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
173	SKIN OTHER	13	100.00	0	0.00	0	0.00	0	0.00	13	100.00
175	BREAST MALE	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
185	PROSTATE	2	66.67	0	0.00	0	0.00	1	33.33	3	100.00
186	TESTIS	4	80.00	0	0.00	0	0.00	1	20.00	5	100.00
187	PENIS ETC	8	80.00	0	0.00	0	0.00	2	20.00	10	100.00
188	URI BLADDER	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
189	KIDNEY	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
190	EYE	2	66.67	0	0.00	1	33.33	0	0.00	3	100.00
191	BRAIN	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
192	NERVOUS SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
193	THYROID GLAND	1	50.00	1	50.00	0	0.00	0	0.00	2	100.00
194	OTH ENDO GLDS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
195	ILL DEF SITES	3	100.00	0	0.00	0	0.00	0	0.00	3	100.00
196	SEC LYMPH NODES	56	100.00	0	0.00	0	0.00	0	0.00	56	100.00
197	SEC RES ETC	3	100.00	0	0.00	0	0.00	0	0.00	3	100.00
198	SEC OTHER	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
199	PRIM UNK	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
200	LYMPHOSARCOMA	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
201	HODGKINS DIS	5	100.00	0	0.00	0	0.00	0	0.00	5	100.00
202	OTH LYMPHOMA	10	100.00	0	0.00	0	0.00	0	0.00	10	100.00
203	MULT MYELOMA	3	75.00	1	25.00	0	0.00	0	0.00	4	100.00
204	LEUK LYMPHATIC	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
205	LEUK MYELOID	6	100.00	0	0.00	0	0.00	0	0.00	6	100.00
206	LEUK MONOCYTIC	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
207	LEUK OTH SPE	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
208	LEUK UNS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
ALL SITES TOTALS		717	83.08	113	13.09	5	0.58	28	3.24	863	100.00

ICD 9TH	SITE	MICROSCOPIC		X-RAY		CLINICAL ONLY		OTHERS		TOTALS	
		n	%	n	%	n	%	n	%	n	%
140	LIP	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
141	TONGUE	7	100.00	0	0.00	0	0.00	0	0.00	7	100.00
142	SALIVARY GLANDS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
143	GUM	7	87.50	0	0.00	1	12.50	0	0.00	8	100.00
144	FLOOR OF MOUTH	3	100.00	0	0.00	0	0.00	0	0.00	3	100.00
145	OTHER MOUTH	11	100.00	0	0.00	0	0.00	0	0.00	11	100.00
146	OROPHARYNX	16	100.00	0	0.00	0	0.00	0	0.00	16	100.00
147	NASOPHARYNX	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
148	HYPOPHARYNX	11	100.00	0	0.00	0	0.00	0	0.00	11	100.00
149	PHARYNX ETC	6	100.00	0	0.00	0	0.00	0	0.00	6	100.00
150	ESOPHAGUS	32	56.14	25	43.86	0	0.00	0	0.00	57	100.00
151	STOMACH	16	76.19	3	14.29	0	0.00	2	9.52	21	100.00
152	SMALL INTESTINE	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
153	COLON	1	50.00	1	50.00	0	0.00	0	0.00	2	100.00
154	RECTUM	3	75.00	1	25.00	0	0.00	0	0.00	4	100.00
155	LIVER	3	100.00	0	0.00	0	0.00	0	0.00	3	100.00
156	GALLBLADDER	3	60.00	0	0.00	0	0.00	2	40.00	5	100.00
157	PANCREAS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
158	RETROPERITONEUM	3	100.00	0	0.00	0	0.00	0	0.00	3	100.00
159	OTHER DIG SYS	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
160	NASAL CAVITY	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
161	LARYNX	4	80.00	0	0.00	1	20.00	0	0.00	5	100.00
162	LUNG	4	80.00	1	20.00	0	0.00	0	0.00	5	100.00
163	PLEURA	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
164	THYMUS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
165	OTHER RES SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
170	BONE	0	0.00	1	100.00	0	0.00	0	0.00	1	100.00
171	CONNECTIVE TIS	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
172	SKIN MELANOMA	3	100.00	0	0.00	0	0.00	0	0.00	3	100.00
173	SKIN OTHER	3	75.00	0	0.00	1	25.00	0	0.00	4	100.00
174	BREAST FEM	29	87.88	1	3.03	0	0.00	3	9.09	33	100.00
179	UTERUS UNS	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
180	CERVIX UTERI	61	98.39	0	0.00	0	0.00	1	1.61	62	100.00
181	PLACENTA	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
182	BODY UTERUS	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
183	OVARY	13	92.86	0	0.00	1	7.14	0	0.00	14	100.00
184	VAGINA	6	100.00	0	0.00	0	0.00	0	0.00	6	100.00
188	URI BLADDER	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
189	KIDNEY	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
190	EYE	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
191	BRAIN	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
192	NERVOUS SYS	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
193	THYROID GLAND	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
194	OTH ENDO GLDS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
195	ILL DEF SITES	1	50.00	0	0.00	0	0.00	1	50.00	2	100.00
196	SEC LYMPH NODES	9	100.00	0	0.00	0	0.00	0	0.00	9	100.00
197	SEC RES ETC	6	75.00	1	12.50	1	12.50	0	0.00	8	100.00
198	SEC OTHER	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
199	PRIM UNK	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
200	LYMPHOSARCOMA	0	0.00	1	100.00	0	0.00	0	0.00	1	100.00
201	HODGKINS DIS	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
202	OTH LYMPHOMA	7	100.00	0	0.00	0	0.00	0	0.00	7	100.00
203	MULT MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
204	LEUK LYMPHATIC	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
205	LEUK MYELOID	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
206	LEUK MONOCYTIC	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
207	LEUK OTH SPE	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
208	LEUK UNS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
ALL SITES TOTALS		286	85.37	35	10.45	5	1.49	9	2.69	335	100.00

YEAR : 1984

HOSPITAL CANCER REGISTRY DIBRUGARH
CANCER CASES BY EXTENT OF DISEASE

ICD 9TH	SITE	MALES				FEMALES				TOTALS			
		LOCA	RLN	DISMET	OTH	%	n	LOCA	RLN	DISMET	OTH	%	n
140	LIP	12.5	25.0	0.0	62.5	100.0	8	0.0	0.0	0.0	0.0	0.0	0
141	TONGUE	23.0	31.1	0.0	45.9	100.0	61	14.3	42.9	0.0	42.9	100.0	7
142	SALIVARY GLANDS	0.0	0.0	0.0	100.0	100.0	1	0.0	0.0	0.0	0.0	0.0	0
143	GUM	20.0	20.0	0.0	60.0	100.0	10	0.0	50.0	0.0	50.0	100.0	8
144	FLOOR OF MOUTH	42.9	28.6	0.0	28.6	100.0	7	0.0	0.0	0.0	100.0	100.0	3
145	OTHER MOUTH	24.0	24.0	0.0	52.0	100.0	25	18.2	18.2	0.0	63.6	100.0	11
146	OROPHARYNX	9.9	46.9	1.2	42.0	100.0	81	18.8	31.3	0.0	50.0	100.0	16
147	NASOPHARYNX	5.6	38.9	0.0	55.6	100.0	18	0.0	0.0	0.0	100.0	100.0	1
148	HYPOPHARYNX	21.7	32.2	0.0	46.2	100.0	143	27.3	45.5	0.0	27.3	100.0	11
149	PHARYNX ETC	22.2	40.7	0.0	37.0	100.0	27	16.7	50.0	0.0	33.3	100.0	6
150	ESOPHAGUS	41.5	10.1	1.9	46.5	100.0	159	45.6	7.0	0.0	47.4	100.0	57
151	STOMACH	1.9	17.0	17.0	64.2	100.0	53	0.0	14.3	4.8	81.0	100.0	21
152	SMALL INTESTINE	0.0	25.0	0.0	75.0	100.0	4	0.0	0.0	0.0	0.0	0.0	0
153	COLON	0.0	27.3	9.1	63.6	100.0	11	0.0	0.0	50.0	50.0	100.0	2
154	RECTUM	11.1	22.2	11.1	55.6	100.0	9	0.0	0.0	0.0	100.0	100.0	4
155	LIVER	18.2	0.0	0.0	81.8	100.0	11	33.3	0.0	0.0	66.7	100.0	3
156	GALLBLADDER	0.0	20.0	0.0	80.0	100.0	5	0.0	0.0	0.0	100.0	100.0	5
157	PANCREAS	0.0	66.7	0.0	33.3	100.0	3	0.0	0.0	0.0	0.0	0.0	0
158	RETROPERITONEUM	0.0	0.0	66.7	33.3	100.0	3	0.0	0.0	0.0	100.0	100.0	3
159	OTHER DIG SYS	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0
160	NASAL CAVITY	50.0	0.0	0.0	50.0	100.0	2	0.0	50.0	0.0	50.0	100.0	1
161	LARYNX	25.8	22.6	0.0	51.6	100.0	31	20.0	60.0	0.0	20.0	100.0	5
162	LUNG	4.8	16.7	26.2	52.4	100.0	42	0.0	20.0	80.0	0.0	100.0	5
163	PLEURA	100.0	0.0	0.0	0.0	100.0	1	0.0	0.0	0.0	0.0	0.0	0
164	THYMUS	0.0	0.0	0.0	100.0	100.0	2	0.0	0.0	0.0	0.0	0.0	0
165	OTHER RES SYS	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0
170	BONE	60.0	10.0	0.0	30.0	100.0	10	0.0	0.0	0.0	100.0	100.0	1
171	CONNECTIVE TIS	33.3	33.3	0.0	33.3	100.0	6	100.0	0.0	0.0	0.0	100.0	2
172	SKIN MELANOMA	50.0	0.0	50.0	0.0	100.0	2	0.0	0.0	0.0	100.0	100.0	3
173	SKIN OTHER	15.4	30.8	7.7	46.2	100.0	13	25.0	0.0	25.0	50.0	100.0	4
174	BREAST FEM	0.0	0.0	0.0	0.0	0.0	0	9.1	21.2	12.1	57.6	100.0	33
175	BREAST MALE	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0
179	UTERUS UNS	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	100.0	100.0	1
180	CERVIX UTERI	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0
181	PLACENTA	0.0	0.0	0.0	0.0	0.0	0	4.8	30.6	3.2	61.3	100.0	62
182	BODY UTERUS	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0
183	OVARY	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0
184	VAGINA	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0
185	PROSTATE	0.0	0.0	0.0	100.0	100.0	3	0.0	0.0	0.0	0.0	0.0	0
186	TESTIS	0.0	40.0	0.0	60.0	100.0	5	0.0	0.0	0.0	0.0	0.0	0
187	PENIS ETC	20.0	30.0	0.0	50.0	100.0	10	0.0	0.0	0.0	0.0	0.0	0
188	URI BLADDER	0.0	0.0	0.0	100.0	100.0	1	0.0	0.0	0.0	100.0	100.0	1
189	KIDNEY	0.0	0.0	0.0	0.0	0.0	0	100.0	0.0	0.0	0.0	100.0	1
190	EYE	33.3	33.3	0.0	33.3	100.0	3	0.0	0.0	0.0	0.0	0.0	0
191	BRAIN	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0
192	NERVOUS SYS	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0
193	THYROID GLAND	0.0	0.0	50.0	50.0	100.0	2	0.0	50.0	0.0	50.0	100.0	2
194	OTH ENDO GLDS	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0
195	ILL DEF SITES	0.0	0.0	0.0	100.0	100.0	3	0.0	50.0	50.0	0.0	100.0	2
196	SEC LYMPH NODES	0.0	1.8	0.0	98.2	100.0	56	0.0	0.0	0.0	100.0	100.0	9
197	SEC RES ETC	0.0	0.0	0.0	100.0	100.0	3	0.0	0.0	25.0	75.0	100.0	8
198	SEC OTHER	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0
199	PRIM UNK	0.0	0.0	100.0	0.0	100.0	1	0.0	0.0	0.0	0.0	0.0	0
200-208		14.3	0.0	3.6	82.1	100.0	28	0.0	0.0	16.7	83.3	100.0	12
		19.9	22.6	3.8	53.7	100.0	863	14.9	20.3	6.3	58.5	100.0	335

HOSPITAL CANCER REGISTRY: TRIVANDRUM

The hospital cancer registry started collecting data from January 1982. It is based in the Regional Cancer Centre (RCC), Trivandrum, and registers patients from the Medical College Hospital, Dental College Clinics, Sree Avittom Thirunal Hospital for women and children and the Regional Cancer Centre, all located in the same campus.

The Medical College, Trivandrum is the oldest Medical College in the state of Kerala and was established in 1953. The Medical College Hospital (MCH) is a teaching hospital and caters to only referred patients. Annually around 36000 patients are admitted as in-patients. The hospital has 1329 inpatient beds. The Dental College clinics attached to the Medical College complex, has no separate inpatient beds but regular out-patient clinics are held there. The patients requiring inpatient admission are admitted in the MCH inpatient wards. The Sree Avittom Thirunal Hospital for women and children (0-12 years) is also a teaching hospital of MCH. This hospital has more than 38000 inpatients annually with a bed strength of 706. However, a majority of cases attending this hospital are maternity cases. The Regional Cancer Centre was established in 1981 by Government of India under Cancer Control plan. This continues to be the radiotherapy teaching wing of the Medical College but maintains its autonomy in all other activities. There are 129 beds exclusively for cancer inpatient services and annually above 4000 patients are referred to this centre of which over 96% are cancer patients. This is the largest radiotherapy centre in the state. Currently all cancer treatment facilities are available in this Centre.

Like in any other cancer hospital, patients diagnosed and treated either completely or partially elsewhere are also referred to this centre for further treatment or advice. Majority of the patients attending this centre are drawn from southern Kerala where Trivandrum is situated and also from the adjoining districts of Tamil Nadu.

Comments: In 1984, 2097 male and 1755 female cancer cases were registered, compared to 2024 male and 1691 female cases in 1983 and 1890 male and 1603 female cases in 1982.

The most frequent cancers in men are buccal mucosa (10.2%) and lung (10.0%), followed by oesophagus and stomach. The highest frequency of oral cancer seen among all registries occur in this Centre. Uterine cervix and breast cancers are the most frequent in women followed by buccal mucosa. Thyroid cancer has also a very high frequency as seen in this hospital material, especially in women.

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HOSPITAL CANCER REGISTRY TRIVANDRUM
CANCER CASES BY AGE AND SITE (ICD-9), AND PERCENTAGES

SEX : MALE YEAR : 1984

ICD-9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140	LIP	0	0	0	0	0	0	0	0	0	2	0	1	2	4	1	4	0	14	0.67
141	TONGUE	0	0	0	0	0	0	1	1	10	22	24	21	19	16	14	8	0	143	6.82
142	SALIVARY GL	0	0	0	1	0	0	2	2	2	0	2	2	3	0	0	0	0	14	0.67
143	GUM	0	0	0	0	0	1	0	0	6	4	4	10	8	8	8	6	0	55	2.62
144	FLOOR OF MO	0	0	0	0	0	0	0	0	1	6	4	4	4	4	1	0	0	24	1.14
145	OTHER MOUTH	0	0	0	0	0	0	0	0	10	41	35	47	42	31	12	17	0	254	12.11
146	OROPHARYNX	0	0	0	0	0	0	2	2	2	5	11	11	4	4	6	2	0	49	2.34
147	NASOPHARYNX	0	0	2	2	4	1	4	0	1	9	12	15	16	13	6	3	0	30	1.43
148	HYPOPHARYNX	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	85	4.05
149	PHARYNX ETC	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	5	0.24
150	ESOPHAGUS	0	0	0	0	0	0	0	0	12	12	10	16	18	17	8	9	0	120	5.72
151	STOMACH	0	0	0	0	0	0	4	5	3	12	10	16	18	17	10	10	0	103	4.91
152	SMALL INTES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
153	COLON	0	0	1	0	0	1	1	0	2	5	2	4	6	3	2	1	0	25	1.19
154	RECTUM	0	0	0	0	0	1	1	0	2	5	2	4	6	4	2	1	0	31	1.48
155	LIVER	1	0	0	0	0	2	3	5	6	9	5	7	6	4	2	0	0	55	2.62
156	GALLBLADDER	0	0	0	0	0	0	0	0	1	3	1	1	1	1	1	1	0	8	0.38
157	PANCREAS	0	0	0	0	0	0	0	0	2	2	2	2	3	1	1	1	0	18	0.86
158	RETROPERITO	0	0	0	0	0	0	0	1	0	1	1	0	2	0	0	0	0	5	0.24
159	OTHER DIG S	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.00
160	NASAL CAVIT	0	0	0	0	0	0	0	0	2	5	5	2	0	0	3	1	0	27	1.29
161	LARYNX	0	0	0	0	0	0	0	2	4	14	8	19	30	14	10	4	0	105	5.01
162	LUNG	0	0	0	0	1	1	0	9	12	23	39	43	32	24	16	9	0	209	9.97
163	PLEURA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
164	THYMUS	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	4	0.19
165	OTHER RES S	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	BONE	0	1	1	3	8	1	0	0	1	2	0	1	0	0	1	1	0	27	1.29
171	CONNECTIVE	3	2	0	0	1	0	0	2	1	0	2	0	0	0	1	1	0	14	0.67
172	SKIN MELANO	0	0	0	0	0	0	0	0	0	0	2	1	0	1	1	1	0	12	0.57
173	SKIN OTHER	1	0	0	1	0	1	1	0	3	6	2	4	2	1	4	3	0	38	1.81
175	BREAST MALE	0	0	0	0	0	0	0	0	0	1	0	1	1	2	0	0	0	5	0.24
185	PROSTATE	0	0	0	0	0	0	0	0	0	0	2	2	7	10	7	12	0	41	1.96
186	TESTIS	0	0	0	0	0	0	6	0	0	6	6	6	3	8	9	4	0	15	0.72
187	PENIS ETC	0	0	0	0	0	0	1	0	3	6	5	6	14	8	3	4	0	30	1.43
188	URI BLADDER	0	0	0	0	0	0	0	1	4	3	5	6	1	2	3	0	0	54	2.58
189	KIDNEY	5	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	19	0.91
190	EYE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.05
191	BRAIN	3	6	2	7	6	6	15	8	5	8	6	2	4	4	1	2	0	85	4.05
192	NERVOUS SYS	0	0	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	4	0.19
193	THYROID GLA	0	0	1	1	0	1	2	2	5	2	2	4	5	6	4	2	0	37	1.76
194	OTH ENDO GL	1	3	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	6	0.29
195	ILL DEF SIT	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	0.10
196	SEC LYMPH N	1	0	0	0	0	1	2	6	2	2	5	6	7	4	7	2	0	46	2.19
197	SEC RES ETC	0	0	0	0	1	0	3	3	3	1	0	3	2	4	1	2	0	23	1.10
198	SEC OTHER	0	0	0	0	0	0	0	0	0	1	6	6	2	4	6	1	0	28	1.34
199	PRIM UNK	2	1	0	0	0	1	1	1	1	5	3	3	4	3	3	1	0	24	1.14
200	LYMPHOSARCO	1	1	2	3	4	6	2	1	1	3	3	3	1	2	4	2	0	42	2.00
201	HODGKINS DI	0	0	2	2	2	1	1	0	5	1	1	2	1	0	2	0	0	25	1.19
202	OTH LYMPHOM	1	1	2	2	1	0	2	4	0	3	6	2	1	3	1	3	0	31	1.48
203	MULT MYELOM	0	0	0	0	0	0	0	1	0	2	4	4	2	10	4	1	0	27	1.29
204	LEUK LYMPHA	8	5	6	6	5	3	3	1	1	1	0	1	1	2	1	0	0	41	1.96
205	LEUK MYELOI	2	2	0	1	1	4	1	1	1	1	3	1	1	0	0	1	0	32	1.53
206	LEUK MONOCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
207	LEUK OTH SP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
208	LEUK UNS	0	0	1	0	0	0	0	0	2	1	1	0	0	0	0	0	0	5	0.24
TOTAL																			2097	100.00

CANCER CASES BY AGE AND SITE (ICD-9), AND PERCENTAGES

ICD-9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140	LIP	0	0	1	0	0	0	1	0	1	4	2	1	6	3	0	0	0	19	1.08
141	TONGUE	0	0	0	0	0	1	0	3	3	7	6	9	10	13	2	6	0	60	3.42
142	SALIVARY GL	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	2	0.11
143	GUM	0	0	0	0	0	0	0	0	0	3	1	5	3	5	7	5	0	29	1.65
144	FLOOR OF MO	0	0	0	0	1	0	0	0	0	2	1	0	1	0	1	0	0	6	0.34
145	OTHER MOUTH	0	1	0	0	0	0	2	4	6	17	15	18	16	20	9	14	0	122	6.95
146	OROPHARYNX	0	0	0	0	0	0	1	1	1	1	1	2	0	0	0	1	0	7	0.40
147	NASOPHARYNX	0	0	1	1	3	1	2	0	1	1	3	3	0	1	0	0	0	13	0.74
148	HYPOPHARYNX	0	0	0	0	0	0	1	0	2	1	3	3	0	1	1	0	0	12	0.68
149	PHARYNX ETC	0	0	0	0	0	0	0	0	0	1	4	12	2	5	2	5	0	36	2.05
150	ESOPHAGUS	0	0	0	0	0	1	2	1	3	8	4	6	7	8	6	2	0	48	2.74
151	STOMACH	0	0	0	0	0	1	2	1	0	0	0	0	1	0	0	0	0	1	0.06
152	SMALL INTES	0	0	0	0	0	0	0	0	0	0	0	3	3	2	0	1	0	17	0.97
153	COLON	0	0	0	0	0	0	3	1	1	3	2	1	5	4	2	3	0	22	1.25
154	RECTUM	0	0	0	0	0	1	1	0	1	2	2	3	1	2	0	0	0	19	1.08
155	LIVER	2	0	0	0	1	1	1	5	1	0	2	3	1	2	0	0	0	3	0.17
156	GALLBLADDER	0	0	0	0	0	0	0	2	0	0	1	0	1	2	0	0	0	13	0.74
157	PANCREAS	0	0	0	0	0	0	0	1	2	3	1	4	1	2	0	0	0	4	0.23
158	RETROPERITO	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0.00
159	OTHER DIG S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0.68
160	NASAL CAVIT	0	0	0	1	1	0	0	2	0	0	0	1	1	5	0	2	0	8	0.46
161	LARYNX	0	0	0	0	0	0	1	1	0	0	1	1	1	2	0	1	0	22	1.25
162	LUNG	0	0	0	1	1	1	1	0	3	3	4	1	3	3	0	1	0	1	0.06
163	PLEURA	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.06
164	THYMUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
165	OTHER RES S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	BONE	0	3	5	4	2	3	1	1	0	1	0	0	1	1	0	0	0	22	1.25
171	CONNECTIVE	2	3	0	0	0	0	1	0	0	0	1	0	0	0	1	2	0	12	0.68
172	SKIN MELANO	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.23
173	SKIN OTHER	0	0	0	1	0	1	0	1	3	3	5	3	5	13	6	3	0	32	1.82
174	BREAST FEM	0	0	0	0	0	9	0	0	43	51	50	34	22	13	6	3	0	286	16.30
179	UTERUS UNS	0	0	0	0	0	0	0	0	0	2	80	60	65	39	20	17	0	457	26.04
180	CERVIX UTER	0	0	0	0	2	6	3	34	38	83	7	12	6	5	3	4	0	10	0.57
181	PLACENTA	0	0	0	1	3	3	0	1	4	2	1	3	2	2	0	0	0	22	1.25
182	BODY UTERUS	0	0	0	0	0	1	0	1	4	17	7	12	6	5	3	4	0	22	1.25
183	OVARY	0	1	2	6	6	5	4	3	6	1	2	0	4	5	3	4	0	22	1.25
184	VAGINA	0	0	0	0	0	0	0	2	1	1	2	0	4	0	1	1	0	3	0.17
188	URI BLADDER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.28
189	KIDNEY	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0.17
190	EYE	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	2.45
191	BRAIN	6	6	3	3	5	8	3	2	2	1	0	2	0	0	0	0	0	3	0.17
192	NERVOUS SYS	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	4	0.23
193	THYROID GLA	0	0	1	6	7	13	12	9	8	8	8	6	5	4	1	4	0	92	5.24
194	OTH ENDO GL	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0.17
195	ILL DEF SIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0.06
196	SEC LYMPH N	0	0	0	0	1	0	0	1	0	1	1	3	0	5	0	1	0	14	0.80
197	SEC RES ETC	0	0	0	0	0	2	1	1	1	1	4	5	1	4	1	2	0	17	0.97
198	SEC OTHER	0	0	0	0	0	0	2	0	1	2	3	2	2	3	1	1	0	19	1.08
199	PRIM UNK	0	1	0	0	0	0	1	1	1	2	2	4	2	2	0	0	0	18	1.03
200	LYMPHOSARCO	0	2	0	1	2	1	0	1	0	2	2	0	0	0	0	0	0	3	0.17
201	HODGKINS DI	0	0	2	1	0	0	0	0	0	0	0	0	2	0	0	0	0	10	0.57
202	OTH LYMPHOM	2	0	0	1	0	1	0	0	0	1	0	2	2	2	1	0	0	12	0.68
203	MULT MYELOM	0	0	0	0	0	0	0	0	1	0	4	4	1	2	0	0	0	27	1.54
204	LEUK LYMPHA	5	3	7	1	1	2	1	0	0	1	1	1	1	2	1	0	0	35	1.99
205	LEUK MYELOI	0	0	6	3	4	2	3	2	1	4	3	1	4	2	0	0	0	1	0.06
206	LEUK MONOCY	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.00
207	LEUK OTH SP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
208	LEUK UNS	0	0	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	4	0.23
TOTAL		23	22	31	36	42	65	78	123	137	246	227	212	186	174	70	83	0	1755	100.00

HOSPITAL CANCER REGISTRY TRIVANDRUM SEX : MALE YEAR : 1984
CASES OF CANCER BY METHOD OF DIAGNOSIS AND SITE (ICD-9)

ICD 9TH	SITE	MICROSCOPIC		X-RAY		CLINICAL ONLY		OTHERS		TOTALS	
		n	%	n	%	n	%	n	%	n	%
140	LIP	9	64.29	0	0.00	5	35.71	0	0.00	14	100.00
141	TONGUE	119	83.22	0	0.00	23	16.08	1	0.70	143	100.00
142	SALIVARY GLANDS	13	92.86	0	0.00	1	7.14	0	0.00	14	100.00
143	GUM	51	92.73	0	0.00	4	7.27	0	0.00	55	100.00
144	FLOOR OF MOUTH	18	75.00	0	0.00	6	25.00	0	0.00	24	100.00
145	OTHER MOUTH	212	83.46	1	0.39	41	16.14	0	0.00	254	100.00
146	OROPHARYNX	45	91.84	0	0.00	4	8.16	0	0.00	49	100.00
147	NASOPHARYNX	29	96.67	0	0.00	1	3.33	0	0.00	30	100.00
148	HYPOPHARYNX	80	94.12	1	1.18	3	3.53	1	1.18	85	100.00
149	PHARYNX ETC	4	80.00	0	0.00	1	20.00	0	0.00	5	100.00
150	OESOPHAGUS	95	79.17	15	12.50	5	4.17	5	4.17	120	100.00
151	STOMACH	56	54.37	7	6.80	12	11.65	28	27.18	103	100.00
152	SMALL INTESTINE	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
153	COLON	24	96.00	0	0.00	0	0.00	1	4.00	25	100.00
154	RECTUM	31	100.00	0	0.00	0	0.00	0	0.00	31	100.00
155	LIVER	46	83.64	2	3.64	7	12.73	0	0.00	55	100.00
156	GALLBLADDER	3	37.50	0	0.00	2	25.00	3	37.50	8	100.00
157	PANCREAS	8	44.44	4	22.22	1	5.56	5	27.78	18	100.00
158	RETROPERITONEUM	4	80.00	1	20.00	0	0.00	0	0.00	5	100.00
159	OTHER DIG SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
160	NASAL CAVITY	23	85.19	3	11.11	1	3.70	0	0.00	27	100.00
161	LARYNX	99	94.29	0	0.00	3	2.86	3	2.86	105	100.00
162	LUNG	171	81.82	33	15.79	2	0.96	3	1.44	209	100.00
163	PLEURA	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
164	THYMUS	3	75.00	1	25.00	0	0.00	0	0.00	4	100.00
165	OTHER RES SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
170	BONE	27	100.00	0	0.00	0	0.00	0	0.00	27	100.00
171	CONNECTIVE TIS	14	100.00	0	0.00	0	0.00	0	0.00	14	100.00
172	SKIN MELANOMA	12	100.00	0	0.00	0	0.00	0	0.00	12	100.00
173	SKIN OTHER	30	78.95	0	0.00	8	21.05	0	0.00	38	100.00
175	BREAST MALE	5	100.00	0	0.00	0	0.00	0	0.00	5	100.00
185	PROSTATE	37	90.24	0	0.00	4	9.76	0	0.00	41	100.00
186	TESTIS	15	100.00	0	0.00	0	0.00	0	0.00	15	100.00
187	PENIS ETC	25	83.33	0	0.00	5	16.67	0	0.00	30	100.00
188	URI BLADDER	41	75.93	1	1.85	3	5.56	9	16.67	54	100.00
189	KIDNEY	14	73.68	4	21.05	0	0.00	1	5.26	19	100.00
190	EYE	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
191	BRAIN	59	69.41	25	29.41	0	0.00	1	1.18	85	100.00
192	NERVOUS SYS	4	100.00	0	0.00	0	0.00	0	0.00	4	100.00
193	THYROID GLAND	35	94.59	0	0.00	2	5.41	0	0.00	37	100.00
194	OTH ENDO GLDS	5	83.33	1	16.67	0	0.00	0	0.00	6	100.00
195	ILL DEF SITES	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
196	SEC LYMPH NODES	42	91.30	0	0.00	4	8.70	0	0.00	46	100.00
197	SEC RES ETC	15	65.22	4	17.39	5	17.39	0	0.00	23	100.00
198	SEC OTHER	15	53.57	8	28.57	5	17.86	0	0.00	28	100.00
199	PRIM UNK	16	66.67	3	12.50	5	20.83	0	0.00	24	100.00
200	LYMPHOSARCOMA	42	100.00	0	0.00	0	0.00	0	0.00	42	100.00
201	HODGKINS DIS	25	100.00	0	0.00	0	0.00	0	0.00	25	100.00
202	OTH LYMPHOMA	27	87.10	0	0.00	4	12.90	0	0.00	31	100.00
203	MULT MYELOMA	26	96.30	0	0.00	0	0.00	1	3.70	27	100.00
204	LEUK LYMPHATIC	41	100.00	0	0.00	0	0.00	0	0.00	41	100.00
205	LEUK MYELOID	32	100.00	0	0.00	0	0.00	0	0.00	32	100.00
206	LEUK MONOCYTIC	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
207	LEUK OTH SPE	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
208	LEUK UNS	5	100.00	0	0.00	0	0.00	0	0.00	5	100.00
ALL SITES TOTALS		1755		114		166		62		2097	
		83.69		5.44		7.92		2.96		100.00	

CASES OF CANCER BY METHOD OF DIAGNOSIS AND SITE (ICD-9)

ICD 9TH	SITE	MICROSCOPIC			X-RAY			CLINICAL ONLY			OTHERS			TOTALS		
		n	%	n	n	%	n	n	%	n	n	%	n	n	%	n
140	LIP	0	0	16	84.21	0	0	3	15.79	0	0	0	0	19	100.00	19
141	TONGUE	0	0	54	100.00	0	0	33	6	10.00	0	0	0	60	100.00	60
142	SALIVARY GLANDS	0	0	2	100.00	0	0	0	0	0	0	0	0	2	100.00	2
143	GUM	0	0	23	79.31	0	0	6	20.69	0	0	0	0	29	100.00	29
144	FLOOR OF MOUTH	0	0	5	83.33	0	0	1	16.67	0	0	0	0	6	100.00	6
145	OTHER MOUTH	53	0	99	81.15	0	0	23	18.85	0	0	0	0	122	100.00	122
146	OROPHARYNX	0	0	6	85.71	0	0	0	0	0	0	0	0	7	100.00	7
147	NASOPHARYNX	0	0	12	92.31	0	0	0	7.69	0	0	0	0	13	100.00	13
148	HYPOPHARYNX	0	0	10	83.33	0	0	0	0	0	0	0	0	12	100.00	12
149	PHARYNX ETC	31	0	33	100.00	0	0	0	0	0	0	0	0	65	100.00	65
150	ESOPHAGUS	43	0	23	63.89	5	13.89	0	2.78	0	0	0	0	36	100.00	36
151	STOMACH	40	0	28	58.33	3	6.25	10	20.83	0	0	0	0	48	100.00	48
152	SMALL INTESTINE	6	0	1	100.00	0	0	0	0	0	0	0	0	1	100.00	1
153	COLON	82	0	13	76.47	2	11.76	0	0	0	0	0	0	17	100.00	17
154	RECTUM	0	0	17	77.27	0	0	4	18.18	0	0	0	0	22	100.00	22
155	LIVER	0	0	12	63.16	0	0	4	21.05	0	0	0	0	19	100.00	19
156	GALLBLADDER	0	0	1	33.33	0	0	0	0	0	0	0	0	3	100.00	3
157	PANCREAS	0	0	5	38.46	0	0	2	15.38	0	0	0	0	13	100.00	13
158	RETROPERITONEUM	0	0	4	100.00	0	0	0	0	0	0	0	0	4	100.00	4
159	OTHER DIG SYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	NASAL CAVITY	0	0	9	75.00	0	0	2	16.67	0	0	0	0	12	100.00	12
161	LARYNX	0	0	8	100.00	0	0	0	0	0	0	0	0	8	100.00	8
162	LUNG	36	0	16	72.73	5	22.73	0	0	0	0	0	0	22	100.00	22
163	PLEURA	0	0	1	100.00	0	0	0	0	0	0	0	0	1	100.00	1
164	THYMUS	0	0	1	100.00	0	0	0	0	0	0	0	0	1	100.00	1
165	OTHER RES SYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	BONE	0	0	21	95.45	0	0	1	4.55	0	0	0	0	22	100.00	22
171	CONNECTIVE TIS	0	0	10	83.33	0	0	2	16.67	0	0	0	0	12	100.00	12
172	SKIN MELANOMA	0	0	4	100.00	0	0	0	0	0	0	0	0	4	100.00	4
173	SKIN OTHER	0	0	31	96.88	0	0	0	0	0	0	0	0	32	100.00	32
174	BREAST FEM	0	0	266	93.01	0	0	20	6.99	0	0	0	0	286	100.00	286
179	UTERUS UNS	0	0	2	66.67	0	0	1	33.33	0	0	0	0	3	100.00	3
180	CERVIX UTERI	0	0	426	93.22	0	0	31	6.78	0	0	0	0	457	100.00	457
181	PLACENTA	0	0	9	90.00	0	0	1	10.00	0	0	0	0	10	100.00	10
182	BODY UTERUS	0	0	22	100.00	0	0	0	0	0	0	0	0	22	100.00	22
183	OVARY	0	0	73	92.41	0	0	6	2.53	0	0	0	0	79	100.00	79
184	VAGINA	0	0	20	90.91	0	0	2	9.09	0	0	0	0	22	100.00	22
188	URI BLADDER	0	0	2	66.67	0	0	1	33.33	0	0	0	0	3	100.00	3
189	KIDNEY	0	0	5	100.00	0	0	0	0	0	0	0	0	5	100.00	5
190	EYE	0	0	3	100.00	0	0	0	0	0	0	0	0	3	100.00	3
191	BRAIN	0	0	28	65.12	14	32.56	0	0	0	0	0	0	43	100.00	43
192	NERVOUS SYS	0	0	4	100.00	0	0	0	0	0	0	0	0	4	100.00	4
193	THYROID GLAND	0	0	86	93.48	0	0	6	6.52	0	0	0	0	92	100.00	92
194	OTH ENDO GLDS	0	0	3	100.00	0	0	0	0	0	0	0	0	3	100.00	3
195	ILL DEF SITES	0	0	83	100.00	0	0	0	0	0	0	0	0	83	100.00	83
196	SEC LYMPH NODES	0	0	12	92.31	0	0	1	7.69	0	0	0	0	13	100.00	13
197	SEC RES ETC	0	0	12	85.71	2	11.76	0	0	0	0	0	0	14	100.00	14
198	SEC OTHER	0	0	9	52.94	6	35.29	2	11.76	0	0	0	0	17	100.00	17
199	PRIM UNK	0	0	13	68.42	3	15.79	2	10.53	0	0	0	0	18	100.00	18
200	LYMPHOSARCOMA	0	0	18	100.00	0	0	0	0	0	0	0	0	18	100.00	18
201	HODGKINS DIS	0	0	3	100.00	0	0	0	0	0	0	0	0	3	100.00	3
202	OTH LYMPHOMA	0	0	9	90.00	1	10.00	0	0	0	0	0	0	10	100.00	10
203	MULT MYELOMA	0	0	11	91.67	0	0	0	0	0	0	0	0	12	100.00	12
204	LEUK LYMPHATIC	0	0	27	100.00	0	0	0	0	0	0	0	0	27	100.00	27
205	LEUK MYELOID	0	0	35	100.00	0	0	0	0	0	0	0	0	35	100.00	35
206	LEUK MONOCYTIC	0	0	1	100.00	0	0	0	0	0	0	0	0	1	100.00	1
207	LEUK OTH SPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
208	LEUK UNS	0	0	4	100.00	0	0	0	0	0	0	0	0	4	100.00	4
ALL SITES TOTALS		1538		47		2.68		137		7.81		33		1755		100.00
		87.64										1.88				

HOSPITAL CANCER REGISTRY TRIVANDRUM
CANCER CASES BY EXTENT OF DISEASE

YEAR : 1984

ICD 9TH	SITE	MALES				FEMALES				TOTALS			
		LOCA	RLN	DISMET	OTH	LOCA	RLN	DISMET	OTH	LOCA	RLN	DISMET	OTH
140	LIP	14.3	64.3	0.0	21.4	26.3	63.2	5.3	5.3	26.3	63.2	5.3	5.3
141	TONGUE	16.1	79.7	2.1	2.1	26.7	66.7	1.7	5.0	26.7	66.7	1.7	5.0
142	SALIVARY GLANDS	7.1	28.6	0.0	64.3	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0
143	GUM	5.5	87.3	0.0	7.3	0.0	89.7	0.0	10.3	0.0	89.7	0.0	10.3
144	FLOOR OF MOUTH	4.2	87.5	0.0	8.3	0.0	66.7	16.7	16.7	0.0	66.7	16.7	16.7
145	OTHER MOUTH	10.6	85.4	1.2	2.8	9.8	82.8	0.8	6.6	9.8	82.8	0.8	6.6
146	OROPHARYNX	0.0	89.8	4.1	6.1	0.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0
147	NASOPHARYNX	10.0	83.3	3.3	3.3	7.7	69.2	23.1	0.0	7.7	69.2	23.1	0.0
148	HYPOPHARYNX	3.5	89.4	2.4	4.7	8.3	83.3	8.3	0.0	8.3	83.3	8.3	0.0
149	PHARYNX ETC	0.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0
150	ESOPHAGUS	45.8	27.5	16.7	10.0	41.7	30.6	19.4	8.3	41.7	30.6	19.4	8.3
151	STOMACH	14.6	27.2	45.6	12.6	12.5	33.3	37.5	16.7	12.5	33.3	37.5	16.7
152	SMALL INTESTINE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153	COLON	12.0	48.0	8.0	32.0	0.0	41.2	23.5	35.3	0.0	41.2	23.5	35.3
154	RECTUM	38.7	32.3	22.6	6.5	27.3	40.9	22.7	13.9	27.3	40.9	22.7	13.9
155	LIVER	25.5	10.9	54.5	9.1	26.3	0.0	68.4	5.3	26.3	0.0	68.4	5.3
156	GALLBLADDER	12.5	62.5	12.5	12.5	33.3	33.3	33.3	0.0	33.3	33.3	33.3	0.0
157	PANCREAS	5.6	33.3	55.6	5.6	7.7	46.2	46.2	0.0	7.7	46.2	46.2	0.0
158	RETROPERITONEUM	0.0	20.0	40.0	40.0	0.0	75.0	0.0	25.0	0.0	75.0	0.0	25.0
159	OTHER DIG SYS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	NASAL CAVITY	14.8	55.6	7.4	22.2	8.3	75.0	0.0	16.7	8.3	75.0	0.0	16.7
161	LARYNX	23.8	61.0	1.0	14.3	50.0	50.0	0.0	0.0	50.0	50.0	0.0	0.0
162	LUNG	19.6	16.3	59.8	4.3	4.5	13.6	63.6	18.2	4.5	13.6	63.6	18.2
163	PLEURA	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	0.0
164	THYMUS	50.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	OTHER RES SYS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	BONE	33.3	51.9	7.4	7.4	27.3	40.9	13.6	18.2	27.3	40.9	13.6	18.2
171	CONNECTIVE TIS	7.1	57.1	7.1	28.6	16.7	33.3	25.0	25.0	16.7	33.3	25.0	25.0
172	SKIN MELANOMA	50.0	25.0	8.3	16.7	25.0	25.0	0.0	50.0	25.0	25.0	0.0	50.0
173	SKIN OTHER	36.8	39.5	0.0	23.7	56.3	25.0	0.0	18.8	56.3	25.0	0.0	18.8
174	BREAST FEM	0.0	0.0	0.0	0.0	11.9	27.6	10.5	50.0	11.9	27.6	10.5	50.0
175	BREAST MALE	0.0	60.0	0.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179	UTERUS UNS	0.0	0.0	0.0	0.0	33.3	0.0	0.0	66.7	33.3	0.0	0.0	66.7
180	CERVIX UTERI	0.0	0.0	0.0	0.0	16.0	70.0	3.3	10.7	16.0	70.0	3.3	10.7
181	PLACENTA	0.0	0.0	0.0	0.0	40.0	30.0	10.0	20.0	40.0	30.0	10.0	20.0
182	BODY UTERUS	0.0	0.0	0.0	0.0	40.9	22.7	0.0	36.4	40.9	22.7	0.0	36.4
183	OVARY	0.0	0.0	0.0	0.0	8.9	27.8	31.6	31.6	8.9	27.8	31.6	31.6
184	VAGINA	0.0	0.0	0.0	0.0	18.2	63.6	9.1	9.1	18.2	63.6	9.1	9.1
185	PROSTATE	63.4	12.2	9.8	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
186	TESTIS	6.7	6.7	6.7	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
187	PENIS ETC	40.0	33.3	6.7	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
188	URI BLADDER	42.6	33.3	14.8	9.3	100.0	40.0	0.0	40.0	100.0	40.0	0.0	40.0
189	KIDNEY	21.1	26.3	36.8	15.8	20.0	40.0	0.0	100.0	20.0	40.0	0.0	100.0
190	EYE	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
191	BRAIN	17.6	36.5	3.5	42.4	4.7	27.9	11.6	55.8	4.7	27.9	11.6	55.8
192	NERVOUS SYS	0.0	75.0	0.0	25.0	0.0	25.0	0.0	75.0	0.0	25.0	0.0	75.0
193	THYROID GLAND	27.0	27.0	10.8	35.1	35.9	21.7	10.9	31.5	35.9	21.7	10.9	31.5
194	OTH ENDO GLDS	0.0	0.0	33.3	66.7	33.3	0.0	33.3	33.3	33.3	0.0	33.3	33.3
195	ILL DEF SITES	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0
196	SEC LYMPH NODES	0.0	0.0	82.6	17.4	0.0	0.0	84.6	15.4	0.0	0.0	84.6	15.4
197	SEC RES ETC	0.0	0.0	100.0	0.0	0.0	0.0	92.9	7.1	0.0	0.0	92.9	7.1
198	SEC OTHER	0.0	3.6	82.1	14.3	0.0	0.0	76.5	23.5	0.0	0.0	76.5	23.5
199	PRIM UNK	0.0	0.0	87.5	12.5	0.0	0.0	94.7	5.3	0.0	0.0	94.7	5.3
200-208		0.0	0.5	0.0	99.5	0.0	1.8	0.9	97.3	0.0	1.8	0.9	97.3
		17.0	43.2	19.1	20.6	15.6	44.6	13.1	26.7	15.6	44.6	13.1	26.7
		2097				2097				2097			
		100.0				100.0				100.0			
		1755				1755				1755			

HOSPITAL CANCER REGISTRY: KIDWAI MEMORIAL INSTITUTE OF ONCOLOGY (KMIO), BANGALORE

The KMIO hospital cancer registry has been functioning since 1980 but it has started collaborating with NCRP since January 1, 1984 and collects data on NCRP proforma.

Comments: In the year 1984, total of 4993 cancer cases was registered, of whom 2260 (45.3%) were males and 2733 (54.7%) were females.

At KMIO, cancers of the lip, oral cavity and pharynx are more common among males (30.2%) than females (16.2%), like other registries.

Relative frequency of oesophageal cancer in men (10.2%) and in women (7.2%) is high compared to other Indian hospital registries, except Dibrugarh registry.

More patients with stomach cancer in men (6.2%) were diagnosed than in women (1.8%).

As in other Indian centres, the series is dominated by the carcinoma of the cervix uteri, representing 42.2% of all cancers in females, while breast cancer comprises 10.5% of malignant tumours in women.

Dr. M. KRISHNA BHARGAVA, Project Chief

HOSPITAL CANCER REGISTRY BANGALORE
CANCER CASES BY AGE AND SITE (ICD.9), AND PERCENTAGES

ICD.9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140	LIP	0	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0	0	4	0.18
141	TONGUE	1	0	0	0	0	0	2	4	8	10	18	15	24	19	6	7	0	114	5.04
142	SALIVARY GL	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2	0.09
143	GUM	0	0	0	0	0	0	1	0	1	7	6	4	7	2	4	6	0	38	1.68
144	FLOOR OF MO	0	0	0	0	0	0	1	1	1	4	5	3	4	1	1	0	0	21	0.93
145	OTHER MOUTH	0	0	0	0	0	2	4	6	8	10	14	18	26	7	7	5	0	107	4.73
146	OROPHARYNX	0	0	0	0	0	0	1	6	6	11	15	11	18	10	10	17	0	105	4.65
147	NASOPHARYNX	0	0	1	2	3	2	1	1	2	6	5	6	2	1	2	1	0	35	1.55
148	HYPOPHARYNX	0	0	0	0	0	0	1	4	12	19	47	41	44	36	21	20	0	246	10.88
149	PHARYNX ETC	0	0	0	0	1	0	0	0	0	1	2	0	2	3	1	1	0	10	0.44
150	ESOPHAGUS	0	0	0	1	1	0	2	6	14	26	43	43	43	15	24	13	0	231	10.22
151	STOMACH	0	0	0	1	0	0	2	6	10	19	17	24	22	13	15	7	0	139	6.15
152	SMALL INTES	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2	0.09
153	COLON	0	0	0	0	0	1	0	1	3	4	7	10	3	2	1	1	0	19	0.84
154	RECTUM	0	0	0	0	0	0	3	5	6	9	7	10	2	1	2	2	0	52	2.30
155	LIVER	1	1	0	1	2	1	2	2	3	10	9	2	4	5	6	3	0	52	2.30
156	GALLBLADDER	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.04
157	PANCREAS	0	0	0	0	0	0	0	1	2	2	1	0	4	1	1	1	0	13	0.58
158	RETROPERITO	1	1	0	0	0	0	0	0	0	3	2	0	0	1	1	1	0	11	0.49
159	OTHER DIG S	0	0	0	0	0	0	0	0	0	1	2	2	2	0	0	0	0	7	0.31
160	NASAL CAVIT	0	0	0	0	0	0	1	0	1	2	4	2	2	2	2	0	0	19	0.84
161	LARYNX	0	0	0	0	1	1	0	2	5	10	19	11	27	12	17	12	0	109	4.82
162	LUNG	0	1	1	1	1	1	1	7	13	22	32	33	39	28	17	11	0	207	9.16
163	PLEURA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
164	THYMUS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4	0.18
165	OTHER RES S	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0.00
170	BONE	0	3	6	11	7	4	1	1	2	7	3	1	1	1	1	0	0	41	1.81
171	CONNECTIVE	2	0	1	1	4	4	1	4	2	7	3	1	4	0	1	1	0	35	1.55
172	SKIN MELANO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.22
173	SKIN OTHER	0	0	0	0	0	0	1	2	2	5	1	1	8	4	2	1	0	30	1.33
175	BREAST MALE	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	3	0.13
185	PROSTATE	0	0	0	0	0	0	0	0	0	0	6	1	4	1	4	2	0	20	0.88
186	TESTIS	1	0	0	2	3	4	3	6	7	7	13	2	7	7	3	3	0	63	2.79
187	PENIS ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	1.50
188	URI BLADDER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0.80
189	KIDNEY	3	3	0	0	1	1	0	1	1	1	3	6	4	0	1	0	0	15	0.66
190	EYE	7	4	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	59	2.61
191	BRAIN	2	2	3	2	7	9	2	5	4	8	2	6	4	0	1	0	0	6	0.27
192	NERVOUS SYS	2	0	0	0	0	2	0	0	0	0	1	0	0	0	1	0	0	19	0.84
193	THYROID GLA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.22
194	OTH ENDO GL	1	0	1	1	0	0	0	0	0	0	2	0	0	0	0	0	0	4	0.18
195	ILL DEF SIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.04
196	SEC Lymph N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
197	SEC RES ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
198	SEC OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
199	PRIM UNK	3	2	0	0	1	2	2	2	5	4	5	11	10	7	2	6	0	64	2.83
200	LYMPHOSARCO	1	5	7	7	4	4	3	4	2	7	4	2	7	4	3	3	0	60	2.65
201	HODGKINS DI	0	8	2	5	5	6	2	4	2	7	1	3	0	0	0	0	0	41	1.81
202	OTH LYMPHOM	0	4	3	1	3	1	2	1	1	2	3	2	4	0	0	0	0	29	1.28
203	MULT MYELOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	1.06
204	LEUK LYMPHA	8	9	1	7	1	0	1	0	1	2	3	0	5	1	1	1	0	33	1.46
205	LEUK MYELOI	2	2	7	6	4	4	7	4	6	8	4	1	2	0	2	1	0	60	2.65
206	LEUK MONOCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
207	LEUK OTH SP	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.18
208	LEUK UNS	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	4	0.18
TOTAL		36	47	37	52	54	64	57	101	142	249	318	274	354	194	157	124	0	2260	100.00

HOSPITAL CANCER REGISTRY BANGALORE
CANCER CASES BY AGE AND SITE (ICD-9), AND PERCENTAGES

SEX : FEMALE
YEAR : 1984

ICD-9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140	LIP	0	0	0	0	0	0	0	1	0	1	2	0	2	0	0	0	0	6	0.22
141	TONGUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0.70
142	Salivary GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.22
143	GUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	3.51
144	FLOOR OF MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.22
145	OTHER MOUTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	244	8.93
146	OROPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0.40
147	NASOPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0.48
148	HYPOPHARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	1.54
149	PHARYNX ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.04
150	ESOPHAGUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197	7.21
151	STOMACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	1.79
152	SMALL INTES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
153	COLON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0.33
154	RECTUM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	1.68
155	LIVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0.37
156	GALLBLADDER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.15
157	PANCREAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.18
158	RETROPERITO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.11
159	OTHER DIG S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.18
160	NASAL CAVIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0.48
161	LARYNX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0.33
162	LUNG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0.91
163	PLEURA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.04
164	THYMUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
165	OTHER RES S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	BONE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.88
171	CONNECTIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0.62
172	SKIN MELANO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.11
173	SKIN OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.88
174	BREAST FEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	286	10.46
179	UTERUS UNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0.26
180	CERVIX UTER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1154	42.22
181	PLACENTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.04
182	BODY UTERUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0.84
183	OVARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124	4.54
184	VAGINA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	1.24
188	URI BLADDER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.07
189	KIDNEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.22
190	EYE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0.33
191	BRAIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	1.06
192	NERVOUS SYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.11
193	THYROID GLA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	1.43
194	OTH ENDO GL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.04
195	ILL DEF SIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.04
196	SEC LYMPH N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
197	SEC RES ETC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
198	SEC OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
199	PRIM UNK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
200	LYMPHOSARCO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1.10
201	HODGKINS DI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0.70
202	OTH LYMPHOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0.44
203	MULT MYELOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0.33
204	LEUK LYMPHA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0.51
205	LEUK MYELOI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1.10
206	LEUK MONOCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00
207	LEUK OTH SP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
208	LEUK UNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.07
TOTAL		13	30	16	23	39	80	146	278	365	419	420	284	299	165	99	57	0	2733	100.00

HOSPITAL CANCER REGISTRY BANGALORE SEX : MALE YEAR : 1984
CASES OF CANCER BY METHOD OF DIAGNOSIS AND SITE (ICD-9)

ICD 9TH	SITE	MICROSCOPIC		X-RAY		CLINICAL ONLY		OTHERS		TOTALS	
		n	%	n	%	n	%	n	%	n	%
140	LIP	4	100.00	0	0.00	0	0.00	0	0.00	4	100.00
141	TONGUE	108	94.74	0	0.00	4	3.51	2	1.75	114	100.00
142	SALIVARY GLANDS	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
143	GUM	38	100.00	0	0.00	0	0.00	0	0.00	38	100.00
144	FLOOR OF MOUTH	21	100.00	0	0.00	0	0.00	0	0.00	21	100.00
145	OTHER MOUTH	106	99.07	1	0.93	0	0.00	0	0.00	107	100.00
146	OROPHARYNX	103	98.10	0	0.00	1	0.95	1	0.95	105	100.00
147	NASOPHARYNX	31	88.57	0	0.00	4	11.43	0	0.00	35	100.00
148	HYPOPHARYNX	229	93.09	3	1.22	12	4.88	2	0.81	246	100.00
149	PHARYNX ETC	10	100.00	0	0.00	0	0.00	0	0.00	10	100.00
150	OESOPHAGUS	183	79.22	28	12.12	8	3.46	12	5.19	231	100.00
151	STOMACH	103	74.10	3	2.16	28	20.14	5	3.60	139	100.00
152	SMALL INTESTINE	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
153	COLON	13	68.42	2	10.53	3	15.79	1	5.26	19	100.00
154	RECTUM	42	80.77	0	0.00	10	19.23	0	0.00	52	100.00
155	LIVER	47	90.38	2	3.85	3	5.77	0	0.00	52	100.00
156	GALLBLADDER	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
157	PANCREAS	6	46.15	1	7.69	3	23.08	3	23.08	13	100.00
158	RETROPERITONEUM	10	90.91	0	0.00	1	9.09	0	0.00	11	100.00
159	OTHER DIG SYS	7	100.00	0	0.00	0	0.00	0	0.00	7	100.00
160	NASAL CAVITY	16	84.21	0	0.00	3	15.79	0	0.00	19	100.00
161	LARYNX	98	89.91	0	0.00	11	10.09	0	0.00	109	100.00
162	LUNG	177	85.51	18	8.70	11	5.31	1	0.48	207	100.00
163	PLEURA	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
164	THYMUS	3	75.00	0	0.00	1	25.00	0	0.00	4	100.00
165	OTHER RES SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
170	BONE	36	87.80	1	2.44	3	7.32	1	2.44	41	100.00
171	CONNECTIVE TIS	33	94.29	1	2.86	1	2.86	0	0.00	35	100.00
172	SKIN MELANOMA	5	100.00	0	0.00	0	0.00	0	0.00	5	100.00
173	SKIN OTHER	30	100.00	0	0.00	0	0.00	0	0.00	30	100.00
175	BREAST MALE	3	100.00	0	0.00	0	0.00	0	0.00	3	100.00
185	PROSTATE	18	90.00	0	0.00	2	10.00	0	0.00	20	100.00
186	TESTIS	28	87.50	0	0.00	4	12.50	0	0.00	32	100.00
187	PENIS ETC	51	80.95	0	0.00	9	14.29	3	4.76	63	100.00
188	URI BLADDER	29	85.29	0	0.00	5	14.71	0	0.00	34	100.00
189	KIDNEY	16	88.89	1	5.56	1	5.56	0	0.00	18	100.00
190	EYE	12	80.00	0	0.00	2	13.33	1	6.67	15	100.00
191	BRAIN	58	98.31	0	0.00	1	1.69	0	0.00	59	100.00
192	NERVOUS SYS	6	100.00	0	0.00	0	0.00	0	0.00	6	100.00
193	THYROID GLAND	15	78.95	0	0.00	4	21.05	0	0.00	19	100.00
194	OTH ENDO GLDS	4	80.00	0	0.00	1	20.00	0	0.00	5	100.00
195	ILL DEF SITES	4	100.00	0	0.00	0	0.00	0	0.00	4	100.00
196	SEC LYMPH NODES	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
197	SEC RES ETC	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
198	SEC OTHER	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
199	PRIM UNK	56	87.50	1	1.56	7	10.94	0	0.00	64	100.00
200	LYMPHOSARCOMA	60	100.00	0	0.00	0	0.00	0	0.00	60	100.00
201	HODGKINS DIS	41	100.00	0	0.00	0	0.00	0	0.00	41	100.00
202	OTH LYMPHOMA	28	96.55	0	0.00	1	3.45	0	0.00	29	100.00
203	MULT MYELOMA	22	91.67	2	8.33	0	0.00	0	0.00	24	100.00
204	LEUK LYMPHATIC	31	93.94	0	0.00	2	6.06	0	0.00	33	100.00
205	LEUK MYELOID	60	100.00	0	0.00	0	0.00	0	0.00	60	100.00
206	LEUK MONOCYTIC	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
207	LEUK OTH SPE	4	100.00	0	0.00	0	0.00	0	0.00	4	100.00
208	LEUK UNS	3	75.00	0	0.00	0	0.00	1	25.00	4	100.00

ALL SITES TOTALS	2016	64	147	33	2260
	89.20	2.83	6.50	1.46	100.00

CASES OF CANCER BY METHOD OF DIAGNOSIS AND SITE (ICD-9)

ICD 9TH	SITE	MICROSCOPIC			X-RAY			CLINICAL ONLY			OTHERS			TOTALS		
		n	%	n	n	%	n	n	%	n	n	%	n	n	%	
140	LIP	6	100.00	0	0	0.00	0	0	0.00	0	0	0.00	6	100.00		
141	TONGUE	18	94.74	0	0	0.00	1	1	5.26	0	0	0.00	19	100.00		
142	SALIVARY GLANDS	4	66.67	0	0	0.00	2	2	33.33	0	0	0.00	6	100.00		
143	GUM	95	98.96	32	0	0.00	1	1	1.04	100	0	0.00	96	100.00		
144	FLOOR OF MOUTH	6	100.00	0	0	0.00	0	0	0.00	0	0	0.00	6	100.00		
145	OTHER MOUTH	241	98.77	38	0	0.00	3	3	1.23	38	0	0.00	244	100.00		
146	OROPHARYNX	10	90.91	100	0	0.00	1	1	9.09	0	0	0.00	11	100.00		
147	NASOPHARYNX	12	92.31	88	1	7.69	28	0	0.00	0	0	0.00	13	100.00		
148	HYPOPHARYNX	36	85.71	48	1	2.38	12	5	11.90	0	0	0.00	42	100.00		
149	PHARYNX ETC	1	100.00	33	0	0.00	18	0	0.00	0	0	0.00	1	100.00		
150	ESOPHAGUS	161	81.73	22	11.17	3.55	7	3.55	28.7	7	3.55	197	100.00			
151	STOMACH	35	71.43	31	4	8.16	8	16.33	0	2	4.08	49	100.00			
152	SMALL INTESTINE	0	0.00	22	0	0.00	0	0	0.00	0	0	0.00	0	0.00		
153	COLON	8	88.89	40	0	0.00	3	1	11.11	0	0	0.00	9	100.00		
154	RECTUM	39	84.78	100	1	2.17	5	10.87	0	1	2.17	38	46	100.00		
155	LIVER	7	70.00	0	1	10.00	2	20.00	0	0	0.00	10	100.00			
156	GALLBLADDER	4	100.00	0	0	0.00	0	0	0.00	0	0	0.00	4	100.00		
157	PANCREAS	2	40.00	0	0	0.00	2	40.00	0	1	20.00	5	100.00			
158	RETROPERITONEUM	3	100.00	0	0	0.00	0	0	0.00	0	0	0.00	3	100.00		
159	OTHER DIG SYS	5	100.00	0	0	0.00	0	0	0.00	0	0	0.00	5	100.00		
160	NASAL CAVITY	13	100.00	100	0	0.00	0	0	0.00	0	0	0.00	13	100.00		
161	LARYNX	9	100.00	100	0	0.00	0	0	0.00	0	0	0.00	9	100.00		
162	LUNG	22	88.00	33	3	12.00	30	0	0.00	31	0	0.00	25	100.00		
163	PLEURA	1	100.00	80	0	0.00	2	0	0.00	0	0	0.00	1	100.00		
164	THYMUS	0	0.00	42	0	0.00	0	0	0.00	13	0	0.00	0	0.00		
165	OTHER RES SYS	43	0	0.00	18	0	0.00	20	0	0.00	0	0	0	0	0.00	
166	BONE	21	87.50	0	3	12.50	0	0	0.00	0	0	0.00	24	100.00		
167	CONNECTIVE TIS	16	94.12	100	0	0.00	0	0	0.00	0	1	5.88	17	100.00		
168	SKIN MELANOMA	3	100.00	0	0	0.00	0	0	0.00	0	0	0.00	3	100.00		
169	SKIN OTHER	24	100.00	0	0	0.00	0	0	0.00	0	0	0.00	24	100.00		
170	BREAST FEM	245	85.66	2	1	0.35	35	12.24	0	5	1.75	286	100.00			
171	UTERUS UNS	7	100.00	31	0	0.00	0	0	0.00	0	0	0.00	7	100.00		
172	CERVIX UTERI	1120	97.05	58	0	0.00	27	2.34	0	7	0.61	1154	100.00			
173	PLACENTA	1	100.00	53	0	0.00	0	0	0.00	0	0	0.00	1	100.00		
174	BODY UTERUS	22	95.65	33	0	0.00	1	4.35	0	0	0.00	23	100.00			
175	OVARY	113	91.13	0	1	0.81	4	3.23	20	6	4.84	124	100.00			
176	VAGINA	32	94.12	13	0	0.00	23	2.94	47	1	2.94	34	100.00			
177	URI BLADDER	40	100.00	38	0	0.00	0	0	0.00	0	0	0.00	2	100.00		
178	KIDNEY	6	100.00	68	0	0.00	19	0	0.00	0	0	0.00	6	100.00		
179	EYE	7	77.78	100	0	0.00	2	22.22	0	0	0.00	9	100.00			
180	BRAIN	28	96.55	41	0	0.00	1	3.45	53	0	0.00	29	100.00			
181	NERVOUS SYS	20	100.00	32	0	0.00	9	23.08	100	0	0.00	39	100.00			
182	THYROID GLAND	28	71.79	10	2	5.13	10	0	0.00	0	0	0.00	1	100.00		
183	OTH ENDO GLDS	1	100.00	0	0	0.00	0	0	0.00	0	0	0.00	1	100.00		
184	ILL DEF SITES	0	0.00	11	0	0.00	32	100.00	38	0	0.00	3	100.00			
185	SEC LYMPH NODES	82	0	0.00	4	0.00	103	0	0.00	0	0	0.00	0	0.00		
186	SEC RES ETC	23	76.67	2	1	3.33	5	16.67	84	1	3.33	30	100.00			
187	PRIM UNK	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0.00		
188	LYMPHOSARCOMA	19	100.00	0	0	0.00	0	0	0.00	0	0	0.00	19	100.00		
189	HODGKINS DIS	12	100.00	10	0	0.00	0	0	0.00	0	0	0.00	12	100.00		
190	OTH LYMPHOMA	9	100.00	0	0	0.00	0	0	0.00	0	0	0.00	9	100.00		
191	MULT MYELOMA	9	100.00	0	0	0.00	0	0	0.00	0	0	0.00	9	100.00		
192	LEUK LYMPHATIC	14	100.00	0	0	0.00	0	0	0.00	0	0	0.00	14	100.00		
193	LEUK MYELOID	30	100.00	0	0	0.00	0	0	0.00	0	0	0.00	30	100.00		
194	LEUK MONOCYTIC	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0.00		
195	LEUK OTH SPE	1	100.00	0	0	0.00	1	50.00	0	0	0.00	1	100.00			
196	LEUK UNS	1	50.00	0	0	0.00	1	50.00	0	0	0.00	2	100.00			
208	ALL SITES TOTALS	2535	92.76	41	1.50	0.00	125	4.57	32	1.17	0	0.00	2733	100.00		

HOSPITAL CANCER REGISTRY BANGALORE (KMIO)
CANCER CASES BY EXTENT OF DISEASE

YEAR : 1984

ICD 9TH	SITE	MALES				FEMALES				TOTALS			
		LOCA	RLN	DISMET	OTH	%	n	LOCA	RLN	DISMET	OTH	%	n
140	LIP	50.0	50.0	0.0	0.0	100.0	4	16.7	66.7	0.0	16.7	100.0	6
141	TONGUE	7.0	78.9	3.5	10.5	100.0	114	21.1	68.4	0.0	10.5	100.0	19
142	SALIVARY GLANDS	0.0	100.0	0.0	0.0	100.0	2	16.7	33.3	16.7	33.3	100.0	6
143	GUM	2.6	92.1	0.0	5.3	100.0	38	8.3	84.4	2.1	5.2	100.0	96
144	FLOOR OF MOUTH	4.8	90.5	0.0	4.8	100.0	21	16.7	66.7	0.0	16.7	100.0	6
145	OTHER MOUTH	6.5	86.0	0.9	6.5	100.0	107	4.9	89.3	1.6	4.1	100.0	244
146	OROPHARYNX	1.9	85.7	3.8	8.6	100.0	105	9.1	63.6	9.1	18.2	100.0	11
147	NASOPHARYNX	0.0	74.3	14.3	11.4	100.0	35	0.0	76.9	15.4	7.7	100.0	13
148	HYPOPHARYNX	3.7	84.6	4.9	6.9	100.0	246	9.5	83.3	2.4	4.8	100.0	42
149	PHARYNX ETC	50.0	40.0	0.0	10.0	100.0	10	0.0	100.0	0.0	0.0	100.0	1
150	OESOPHAGUS	7.4	56.7	10.4	25.5	100.0	231	9.1	51.8	12.7	26.4	100.0	197
151	STOMACH	5.0	22.3	30.9	41.7	100.0	139	2.0	22.4	36.7	38.8	100.0	49
152	SMALL INTESTINE	0.0	0.0	0.0	100.0	100.0	2	0.0	0.0	0.0	0.0	0.0	0
153	COLON	0.0	10.5	21.1	68.4	100.0	19	0.0	0.0	33.3	66.7	100.0	9
154	RECTUM	15.4	40.4	15.4	28.8	100.0	52	23.9	41.3	17.4	17.4	100.0	46
155	LIVER	28.8	32.7	21.2	17.3	100.0	52	30.0	40.0	20.0	10.0	100.0	10
156	GALLBLADDER	0.0	0.0	100.0	0.0	100.0	1	0.0	50.0	25.0	25.0	100.0	4
157	PANCREAS	0.0	7.7	69.2	23.1	100.0	13	0.0	40.0	40.0	20.0	100.0	5
158	RETROPERITONEUM	0.0	72.7	0.0	27.3	100.0	11	33.3	33.3	0.0	33.3	100.0	3
159	OTHER DIG SYS	0.0	42.9	28.6	28.6	100.0	7	0.0	40.0	40.0	20.0	100.0	5
160	NASAL CAVITY	5.3	73.7	0.0	21.1	100.0	19	15.4	53.8	0.0	30.8	100.0	13
161	LARYNX	21.1	70.6	2.8	5.5	100.0	109	22.2	77.8	0.0	0.0	100.0	9
162	LUNG	3.4	42.0	47.8	6.8	100.0	207	4.0	44.0	44.0	8.0	100.0	25
163	PLEURA	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	100.0	0.0	100.0	1
164	THYMUS	0.0	0.0	0.0	100.0	100.0	4	0.0	0.0	0.0	0.0	0.0	0
165	OTHER RES SYS	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0
170	BONE	24.4	43.9	12.2	19.5	100.0	41	33.3	50.0	12.5	4.2	100.0	24
171	CONNECTIVE TIS	5.7	42.9	5.7	45.7	100.0	35	35.3	17.6	11.8	35.3	100.0	17
172	SKIN MELANOMA	0.0	20.0	0.0	80.0	100.0	5	66.7	33.3	0.0	0.0	100.0	3
173	SKIN OTHER	23.3	43.3	10.0	23.3	100.0	30	33.3	33.3	4.2	29.2	100.0	24
174	BREAST FEM	0.0	0.0	0.0	100.0	100.0	1	4.2	21.3	9.4	65.0	100.0	286
175	BREAST MALE	0.0	0.0	0.0	100.0	100.0	3	0.0	0.0	0.0	0.0	0.0	0
179	UTERUS UNS	0.0	0.0	0.0	0.0	0.0	0	0.0	14.3	28.6	57.1	100.0	7
180	CERVIX UTERI	0.0	0.0	0.0	0.0	0.0	0	2.9	89.0	2.1	6.1	100.0	1154
181	PLACENTA	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	100.0	100.0	1
182	BODY UTERUS	0.0	0.0	0.0	0.0	0.0	0	34.8	43.5	0.0	21.7	100.0	23
183	OVARY	0.0	0.0	0.0	0.0	0.0	0	3.2	21.8	22.6	52.4	100.0	124
184	VAGINA	0.0	0.0	0.0	100.0	100.0	1	17.6	61.8	0.0	20.6	100.0	34
185	PROSTATE	5.0	40.0	15.0	40.0	100.0	20	0.0	0.0	0.0	0.0	0.0	0
186	TESTIS	12.5	6.3	15.6	65.6	100.0	32	0.0	0.0	0.0	0.0	0.0	0
187	PENIS ETC	12.7	49.2	6.3	31.7	100.0	63	0.0	0.0	0.0	0.0	0.0	0
188	URI BLADDER	23.5	26.5	2.9	47.1	100.0	34	50.0	50.0	0.0	0.0	100.0	2
189	KIDNEY	11.1	5.6	11.1	72.2	100.0	18	16.7	0.0	0.0	83.3	100.0	6
190	EYE	0.0	53.3	6.7	40.0	100.0	15	0.0	33.3	11.1	55.6	100.0	9
191	BRAIN	1.7	0.0	0.0	98.3	100.0	59	0.0	0.0	0.0	100.0	100.0	29
192	NERVOUS SYS	0.0	0.0	0.0	100.0	100.0	6	0.0	33.3	0.0	66.7	100.0	3
193	THYROID GLAND	5.3	42.1	26.3	26.3	100.0	19	7.7	38.5	23.1	30.8	100.0	39
194	OTH ENDO GLDS	0.0	20.0	20.0	60.0	100.0	5	0.0	0.0	100.0	0.0	100.0	1
195	ILL DEF SITES	50.0	0.0	25.0	25.0	100.0	4	0.0	100.0	0.0	0.0	100.0	1
196	SEC LYMPH NODES	0.0	100.0	0.0	0.0	100.0	1	0.0	0.0	0.0	0.0	0.0	0
197	SEC RES ETC	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0
198	SEC OTHER	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0
199	PRIM UNK	0.0	17.2	42.2	40.6	100.0	64	3.3	13.3	53.3	30.0	100.0	30
200-208		1.2	0.4	0.4	98.0	100.0	255	0.0	0.0	0.0	100.0	100.0	96
		7.2	48.1	12.9	31.8	100.0	2260	6.0	63.6	7.2	23.1	100.0	2733

HOSPITAL CANCER REGISTRY: TATA MEMORIAL HOSPITAL, BOMBAY

The Tata Memorial Hospital (TMH) was established in 1941 by Sir Dorabji Tata Trust. The Tata Memorial Centre (TMC) consists of Tata Memorial Hospital and Cancer Research Institute. The TMC receives grant-in-aid from Department of Atomic Energy Government of India.

The TMH is well equipped in the cancer diagnosis and treatment. The hospital has 350 beds, 22 bedded intensive critical care unit and 8 operation theatres.

Although TMH tumour registry has been functioning since 1941 but it came under NCRP network since January 1, 1984, TMH registry now collects data as per NCRP-HCR proforma in addition to its own forms.

A NORISK Data ND 550-CX computer with 24 interactive terminals was installed at TMH in November 1985.

Comments: In 1984, 10615 cancer cases (males—5744, females—4871) were registered at TMH. These are the maximum number of cancer cases registered by any registry in one year period under the NCRP.

Cancers of the lip, oral cavity and pharynx are frequently diagnosed in males (37.0%) and less frequent in females (11.4%). There is also a high relative frequency of oesophagus (8.7%) cancer in men than in women (5.9%).

Uterine cervix cancer (34.1%) is relatively high in TMH registry data followed by breast cancer (20.0%).

Dr. P. B. DESAI, Project Chief
Mr. D. N. RAO, Bio-Statistician
Dr. P. D. SHROFF, Senior Investigator
Dr. L. D. SANGHVI, Consultant

HOSPITAL CANCER REGISTRY TATA MEMORIAL YEAR : 1984
CANCER CASES BY AGE AND SITE (ICD-9), AND PERCENTAGES

ICD-9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140	LIP	1	0	0	0	0	0	0	2	4	1	4	0	4	0	0	3	0	19	0.33
141	TONGUE	0	0	0	0	6	6	18	25	66	79	112	92	87	61	35	16	0	603	10.50
142	SALIVARY GL	0	0	0	2	1	1	2	3	2	2	2	1	4	0	1	3	0	23	0.40
143	GUM	0	0	0	0	0	2	5	5	8	15	19	21	22	11	8	9	0	125	2.18
144	FLOOR OF MO	0	0	0	0	1	0	1	1	5	5	8	10	3	6	1	0	0	44	0.77
145	OTHER MOUTH	2	0	0	0	1	7	18	27	52	54	86	47	48	28	18	18	0	406	7.07
146	OROPHARYNX	0	0	0	0	1	2	4	7	26	48	52	44	51	34	21	16	0	306	5.33
147	NASOPHARYNX	0	0	2	6	8	5	2	4	5	6	6	3	2	3	2	1	0	55	0.96
148	HYPOPHARYNX	1	1	0	2	3	5	11	26	35	58	90	92	80	74	35	24	1	538	9.37
149	PHARYNX ETC	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	0	3	0.05
150	ESOPHAGUS	0	0	0	0	3	2	6	20	45	64	81	77	94	49	36	22	0	499	8.69
151	STOMACH	0	0	0	0	0	2	4	9	16	15	21	22	21	15	5	5	0	135	2.35
152	SMALL INTES	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0.05
153	COLON	0	0	0	1	1	3	6	13	16	12	18	21	25	18	15	4	0	54	0.94
154	RECTUM	0	0	0	3	6	8	11	13	16	12	18	21	25	18	15	4	0	170	2.96
155	LIVER	2	0	0	1	0	1	2	12	3	2	7	5	4	4	0	1	0	34	0.59
156	GALLBLADDER	0	0	0	0	0	1	1	1	1	2	3	1	0	0	0	0	0	9	0.16
157	PANCREAS	0	0	0	0	0	0	1	0	0	2	4	1	2	2	2	0	0	15	0.26
158	RETROPERITO	4	0	0	1	0	1	0	3	0	2	1	1	1	3	1	0	0	18	0.31
159	OTHER DIG S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
160	NASAL CAVIT	1	3	0	0	0	2	4	5	16	10	18	7	7	12	1	1	0	87	1.51
161	LARYNX	0	0	0	0	0	0	6	7	25	42	60	72	74	41	31	13	0	371	6.46
162	LUNG	0	0	1	1	1	2	2	16	28	46	62	53	52	34	35	15	0	347	6.04
163	PLEURA	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.02
164	THYMUS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.02
165	OTHER RES S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	BONE	2	7	18	29	20	3	5	3	1	1	2	2	0	0	0	0	0	93	1.62
171	CONNECTIVE	5	2	1	11	13	10	6	7	7	8	11	7	1	1	5	0	0	98	1.71
172	SKIN MELANO	0	0	0	0	1	1	0	1	1	1	2	2	3	4	0	0	0	12	0.21
173	SKIN OTHER	0	0	0	1	1	2	4	0	2	6	14	11	8	6	4	7	1	68	1.18
175	BREAST MALE	0	0	0	0	0	1	1	1	1	2	4	3	5	5	0	0	0	21	0.37
185	PROSTATE	0	0	0	0	0	0	0	0	0	0	0	11	13	16	13	12	0	75	1.31
186	TESTIS	4	0	0	3	11	20	17	14	11	9	16	7	8	12	6	7	0	95	1.65
187	PENIS ETC	0	0	0	0	0	6	7	6	11	12	12	13	13	12	10	6	0	85	1.48
188	URI BLADDER	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	29	0.50
189	KIDNEY	10	2	0	0	0	1	0	0	2	4	4	4	4	4	0	0	0	49	0.85
190	EYE	9	4	1	2	6	4	7	4	6	1	0	1	1	1	1	1	0	18	0.31
191	BRAIN	1	5	6	2	6	4	4	4	6	2	2	1	2	2	0	0	0	50	0.87
192	NERVOUS SYS	1	1	2	1	1	1	0	0	3	3	7	9	4	3	2	0	0	0	0.00
193	THYROID GLA	0	0	2	1	0	0	0	0	0	0	0	1	1	1	1	1	0	52	0.91
194	OTH ENDO GL	0	0	0	1	3	4	5	4	4	3	7	9	4	3	2	0	0	50	0.87
195	ILL DEF SIT	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.09
196	SEC LYMPH N	2	0	1	1	2	2	7	4	13	11	18	11	13	10	10	3	0	108	1.88
197	SEC RES ETC	0	1	1	0	1	1	1	2	4	4	10	11	7	5	4	0	0	52	0.91
198	SEC OTHER	2	2	1	0	1	6	4	9	9	16	14	27	13	12	7	8	0	19	0.33
199	PRIM UNK	2	1	0	1	3	6	6	4	9	15	11	13	13	12	7	2	0	127	2.21
200	LYMPHOSARCO	4	2	5	6	11	13	14	9	14	15	11	13	13	12	7	0	0	147	2.56
201	HODGKINS DI	4	16	20	8	13	9	12	9	14	7	8	5	5	4	3	2	0	124	2.16
202	OTH LYMPHOM	1	5	3	6	2	5	3	9	7	5	8	7	4	5	2	1	1	77	1.34
203	OTH MYELOM	0	0	0	0	0	0	1	1	5	5	8	7	7	6	4	0	0	41	0.71
204	LEUK LYMPHA	25	37	27	25	16	23	28	20	18	13	8	6	8	7	3	1	0	184	3.20
205	LEUK MYELOI	6	10	11	17	23	28	20	20	18	13	7	17	7	0	0	0	0	203	3.53
206	LEUK MONOCY	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.02
207	LEUK OTH SP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.02
208	LEUK UNS	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	3	0.05
	TOTAL	94	98	100	131	159	166	225	298	488	606	832	761	724	519	329	211	3	5744	100.00

1984

YEAR :

SEX : FEMALE

AND PERCENTAGES

ICD-9

SITE

0-4

5-9

10-14

15-19

20-24

25-29

30-34

35-39

40-44

45-49

50-54

55-59

60-64

65-69

70-74

75+

ANS

TOTAL

%

140

LIP

141

TONGUE

142

SALIVARY GL

143

GUM

144

FLOOR OF MO

145

OTHER MOUTH

146

OROPHARYNX

147

NASOPHARYNX

148

HYPOPHARYNX

149

PHARYNX ETC

150

ESOPHAGUS

151

STOMACH

152

SMALL INTES

153

COLON

154

RECTUM

155

LIVER

156

GALLBLADDER

157

PANCREAS

158

RETROPERITO

159

OTHER DIG S

160

NASAL CAVIT

161

LARYNX

162

LUNG

163

PLEURA

164

THYMUS

165

OTHER RES S

170

BONE

171

CONNECTIVE

172

SKIN MELANO

173

SKIN OTHER

174

BREAST FEM

179

UTERUS UNS

180

CERVIX UTER

181

PLACENTA

182

BODY UTERUS

183

OVARY

184

VAGINA

188

URI BLADDER

189

KIDNEY

190

EYE

191

BRAIN

192

NERVOUS SYS

193

THYROID GLA

194

OTH ENDO GL

195

ILL DEF SIT

196

SEC LYMPH N

197

SEC RES ETC

198

SEC OTHER

199

PRIM UNK

200

LYMPHOSARCO

201

HODGKINS DI

202

OTH LYMPHOM

203

MULT MYELOM

204

LEUK LYMPHA

205

LEUK MYELOI

206

LEUK MONOCY

207

LEUK OTH SP

208

LEUK UNS

TOTAL

45

59

68

86

188

306

470

634

772

720

528

458

248

145

102

2

4871

100.00

0.29

2.38

0.21

1.52

0.12

3.20

0.68

0.37

2.59

0.00

5.93

1.05

0.02

0.51

1.68

0.10

0.45

0.16

0.12

0.00

1.19

0.74

1.38

0.02

0.02

0.96

1.07

0.18

0.94

19.95

0.00

34.08

0.00

1.42

3.61

0.99

0.18

0.39

0.25

0.51

0.02

1.46

0.02

0.02

0.55

1.05

0.33

0.96

1.09

0.64

0.55

0.41

1.52

2.03

0.02

0.04

0.00

HOSPITAL CANCER REGISTRY TATA MEMORIAL										YEAR : 1984									
CASES OF CANCER BY METHOD OF DIAGNOSIS AND SITE (ICD-9)										SEX : MALE									
ICD 9TH	SITE	MICROSCOPIC			X-RAY			CLINICAL ONLY			OTHERS			TOTALS					
		n	%		n	%		n	%		n	%		n	%		n	%	
140	LIP	19	100.00		0	0.00		0	0.00		0	0.00		19	100.00		0	0.00	
141	TONGUE	577	95.69		0	0.00		26	4.31		0	0.00		603	100.00		0	0.00	
142	SALIVARY GLANDS	22	95.65		0	0.00		1	4.35		0	0.00		23	100.00		0	0.00	
143	GUM	123	98.40		0	0.00		2	1.60		0	0.00		125	100.00		0	0.00	
144	FLOOR OF MOUTH	40	90.91		0	0.00		4	9.09		0	0.00		44	100.00		0	0.00	
145	OTHER MOUTH	385	94.83		0	0.00		21	5.17		0	0.00		406	100.00		0	0.00	
146	OROPHARYNX	289	94.44		0	0.00		17	5.56		0	0.00		306	100.00		0	0.00	
147	NASOPHARYNX	49	89.09		3	5.45		3	5.45		0	0.00		55	100.00		0	0.00	
148	HYPOPHARYNX	514	95.54		3	0.19		21	3.90		2	0.37		538	100.00		0	0.00	
149	PHARYNX ETC	3	100.00		0	0.00		0	0.00		0	0.00		3	100.00		0	0.00	
150	ESOPHAGUS	454	90.98		27	5.41		11	2.20		7	1.40		499	100.00		0	0.00	
151	STOMACH	117	86.67		3	2.22		14	10.37		1	0.74		135	100.00		0	0.00	
152	SMALL INTESTINE	3	100.00		0	0.00		0	0.00		0	0.00		3	100.00		0	0.00	
153	COLON	46	85.19		3	1.85		7	12.96		0	0.00		54	100.00		0	0.00	
154	RECTUM	162	95.29		1	0.59		7	4.12		0	0.00		170	100.00		0	0.00	
155	LIVER	32	94.12		0	0.00		1	2.94		1	2.94		34	100.00		0	0.00	
156	GALLBLADDER	8	88.89		0	0.00		1	11.11		0	0.00		9	100.00		0	0.00	
157	PANCREAS	10	66.67		1	6.67		2	13.33		2	13.33		15	100.00		0	0.00	
158	RETROPERITONEUM	16	88.89		0	0.00		1	5.56		1	5.56		18	100.00		0	0.00	
159	OTHER DIG SYS	0	0.00		0	0.00		0	0.00		0	0.00		0	0.00		0	0.00	
160	NASAL CAVITY	85	97.70		2	2.30		0	0.00		0	0.00		87	100.00		0	0.00	
161	LARYNX	346	93.26		0	0.00		24	6.47		1	0.27		371	100.00		0	0.00	
162	LUNG	279	80.40		53	15.27		12	3.46		3	0.86		347	100.00		0	0.00	
163	PLEURA	1	100.00		0	0.00		0	0.00		0	0.00		1	100.00		0	0.00	
164	THYMUS	1	100.00		0	0.00		0	0.00		0	0.00		1	100.00		0	0.00	
165	OTHER RES SYS	0	0.00		0	0.00		0	0.00		0	0.00		0	0.00		0	0.00	
170	BONE	92	98.92		4	1.08		0	0.00		0	0.00		93	100.00		0	0.00	
171	CONNECTIVE TIS	90	91.84		2	2.04		5	5.10		1	1.02		98	100.00		0	0.00	
172	SKIN MELANOMA	12	100.00		0	0.00		0	0.00		0	0.00		12	100.00		0	0.00	
173	SKIN OTHER	66	97.06		0	0.00		2	2.94		0	0.00		68	100.00		0	0.00	
175	BREAST MALE	18	85.71		3	1.33		3	14.29		0	0.00		21	100.00		0	0.00	
185	PROSTATE	57	76.00		1	1.33		17	22.67		0	0.00		75	100.00		0	0.00	
186	TESTIS	82	94.25		4	0.00		5	5.75		0	0.00		87	100.00		0	0.00	
187	PENIS ETC	88	92.63		0	0.00		3	3.53		1	1.18		95	100.00		0	0.00	
188	URI BLADDER	81	95.29		0	0.00		3	3.45		1	3.45		85	100.00		0	0.00	
189	KIDNEY	27	93.10		0	0.00		1	3.45		0	0.00		29	100.00		0	0.00	
190	EYE	13	72.22		1	5.56		4	22.22		0	0.00		18	100.00		0	0.00	
191	BRAIN	47	95.92		3	0.00		2	4.08		0	0.00		49	100.00		0	0.00	
192	NERVOUS SYS	4	66.67		0	0.00		0	0.00		2	33.33		6	100.00		0	0.00	
193	THYROID GLAND	45	90.00		1	2.00		4	8.00		0	0.00		50	100.00		0	0.00	
194	OTH ENDO GLDS	0	0.00		0	0.00		0	0.00		0	0.00		0	0.00		0	0.00	
195	ILL DEF SITES	4	80.00		0	0.00		0	0.00		1	20.00		5	100.00		0	0.00	
196	SEC LYMPH NODES	102	94.44		0	0.00		5	4.63		0	0.00		108	100.00		0	0.00	
197	SEC RES ETC	40	76.92		1	9.63		7	13.46		0	0.00		52	100.00		0	0.00	
198	SEC OTHER	15	78.95		1	5.26		3	15.79		0	0.00		19	100.00		0	0.00	
199	PRIM UNK	114	89.76		5	3.94		8	6.30		0	0.00		127	100.00		0	0.00	
200	LYMPHOSARCOMA	142	96.60		0	0.00		3	2.04		2	1.36		147	100.00		0	0.00	
201	HODGKINS DIS	118	95.16		3	0.00		6	4.84		0	0.00		124	100.00		0	0.00	
202	OTH LYMPHOMA	72	93.51		2	2.60		3	3.90		0	0.00		77	100.00		0	0.00	
203	MULT MYELOMA	36	87.80		0	0.00		3	7.32		2	4.88		41	100.00		0	0.00	
204	LEUK LYMPHATIC	174	94.57		0	0.00		8	4.35		2	1.09		184	100.00		0	0.00	
205	LEUK MYELOID	192	94.58		0	0.00		10	4.93		1	0.49		203	100.00		0	0.00	
206	LEUK MONOCYTIC	0	0.00		0	0.00		1	100.00		0	0.00		1	100.00		0	0.00	
207	LEUK OTH SPE	1	100.00		0	0.00		0	0.00		0	0.00		1	100.00		0	0.00	
208	LEUK UNS	3	100.00		0	0.00		0	0.00		0	0.00		3	100.00		0	0.00	
ALL SITES TOTALS		5316	92.55		112	1.95		285	4.96		31	0.54		5744	100.00		0	0.00	

HOSPITAL CANCER REGISTRY TATA MEMORIAL SEX : FEMALE YEAR : 1984
CASES OF CANCER BY METHOD OF DIAGNOSIS AND SITE (ICD-9)

ICD 9TH	SITE	MICROSCOPIC		X-RAY		CLINICAL ONLY		OTHERS		TOTALS	
		n	%	n	%	n	%	n	%	n	%
140	LIP	14	100.00	0	0.00	0	0.00	0	0.00	14	100.00
141	TONGUE	114	98.28	0	0.00	2	1.72	0	0.00	116	100.00
142	SALIVARY GLANDS	9	90.00	0	0.00	1	10.00	0	0.00	10	100.00
143	GUM	73	98.65	0	0.00	1	1.35	0	0.00	74	100.00
144	FLOOR OF MOUTH	4	66.67	0	0.00	2	33.33	0	0.00	6	100.00
145	OTHER MOUTH	151	96.79	0	0.00	4	2.56	0	0.00	155	100.00
146	OROPHARYNX	32	96.97	0	0.00	1	3.03	0	0.00	33	100.00
147	NASOPHARYNX	17	94.44	0	0.00	1	5.56	0	0.00	18	100.00
148	HYPOPHARYNX	116	92.06	3	2.38	6	4.76	1	0.79	126	100.00
149	PHARYNX ETC	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
150	ESOPHAGUS	261	90.31	16	5.54	12	4.15	0	0.00	289	100.00
151	STOMACH	44	86.27	1	1.96	3	5.88	0	0.00	51	100.00
152	SMALL INTESTINE	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
153	COLON	23	92.00	0	0.00	1	4.00	0	0.00	25	100.00
154	RECTUM	77	93.90	0	0.00	5	6.10	0	0.00	82	100.00
155	LIVER	0	0.00	0	0.00	0	0.00	1	20.00	5	100.00
156	GALLBLADDER	20	90.91	0	0.00	1	4.55	1	4.55	22	100.00
157	PANCREAS	6	75.00	0	0.00	1	12.50	1	12.50	8	100.00
158	RETROPERITONEUM	6	100.00	0	0.00	0	0.00	0	0.00	6	100.00
159	OTHER DIG SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
160	NASAL CAVITY	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
161	LARYNX	52	89.66	0	0.00	0	0.00	1	1.72	58	100.00
162	LUNG	33	91.67	0	0.00	3	8.33	0	0.00	36	100.00
163	PLEURA	63	94.03	3	4.48	1	1.49	0	0.00	67	100.00
164	THYMUS	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
165	OTHER RES SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
166	BONE	45	95.74	0	0.00	2	4.26	0	0.00	47	100.00
167	CONNECTIVE TIS	50	96.15	0	0.00	2	3.85	0	0.00	52	100.00
168	SKIN MELANOMA	9	100.00	0	0.00	0	0.00	0	0.00	9	100.00
169	SKIN OTHER	44	95.65	0	0.00	2	4.35	0	0.00	46	100.00
170	BREAST FEM	833	85.70	7	0.72	131	13.48	1	0.10	972	100.00
171	UTERUS UNS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
172	CERVIX UTERI	1591	95.84	0	0.00	69	4.16	0	0.00	1660	100.00
173	PLACENTA	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
174	BODY UTERUS	63	91.30	0	0.00	6	8.70	0	0.00	69	100.00
175	OVARY	162	92.05	0	0.00	13	7.39	0	0.00	176	100.00
176	VAGINA	45	93.75	0	0.00	3	6.25	0	0.00	48	100.00
177	URI BLADDER	9	100.00	0	0.00	0	0.00	0	0.00	9	100.00
178	KIDNEY	18	94.74	0	0.00	1	5.26	0	0.00	19	100.00
179	EYE	11	91.67	0	0.00	1	8.33	0	0.00	12	100.00
180	BRAIN	21	84.00	0	0.00	4	16.00	0	0.00	25	100.00
181	NERVOUS SYS	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
182	THYROID GLAND	70	98.59	0	0.00	1	1.41	0	0.00	71	100.00
183	OTH ENDO GLDS	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
184	ILL DEF SITES	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
185	SEC LYMPH NODES	26	96.30	0	0.00	1	3.70	0	0.00	27	100.00
186	SEC RES ETC	44	86.27	1	1.96	5	9.80	1	1.96	51	100.00
187	SEC OTHER	14	87.50	1	6.25	1	6.25	0	0.00	16	100.00
188	PRIM UNK	40	85.11	3	6.38	4	8.51	0	0.00	47	100.00
189	LYMPHOSARCOMA	53	100.00	0	0.00	0	0.00	0	0.00	53	100.00
190	HODGKINS DIS	31	100.00	0	0.00	0	0.00	0	0.00	31	100.00
191	OTH LYMPHOMA	25	92.59	1	3.70	1	3.70	0	0.00	27	100.00
192	MULT MYELOMA	17	85.00	0	0.00	2	10.00	1	5.00	20	100.00
193	LEUK LYMPHATIC	73	98.65	0	0.00	1	1.35	0	0.00	74	100.00
194	LEUK MYELOID	98	98.99	0	0.00	1	1.01	0	0.00	99	100.00
195	LEUK MONOCYTIC	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
196	LEUK OTH SPE	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
197	LEUK UNS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
198	ALL SITES TOTALS	4520	92.79	39	0.80	300	6.16	12	0.25	4871	100.00

ICD 9TH	SITE	MALES			FEMALES			TOTALS	OTH	TOTALS	n
		LOCA	RLN	DISMET	LOCA	RLN	DISMET				
140	LIP	52.6	26.3	5.3	15.8	35.7	57.1	0.0	7.1	100.0	14
141	TONGUE	15.4	67.0	2.7	14.9	19.0	69.0	0.9	11.2	100.0	116
142	SALIVARY GLANDS	26.1	34.8	4.3	34.8	10.0	10.0	0.0	80.0	100.0	10
143	GUM	11.2	72.0	6.4	10.4	100.0	75.7	2.7	8.1	100.0	74
144	FLOOR OF MOUTH	40.9	50.0	2.3	6.8	100.0	50.0	16.7	33.3	100.0	6
145	OTHER MOUTH	16.0	61.8	6.4	15.8	100.0	66.0	7.1	10.9	100.0	156
146	OROPHARYNX	11.4	70.3	4.6	13.7	100.0	75.8	3.0	9.1	100.0	33
147	NASOPHARYNX	1.8	69.1	10.9	18.2	100.0	77.8	5.6	16.7	100.0	18
148	HYPOPHARYNX	8.7	79.7	3.7	7.8	100.0	74.6	4.0	8.7	100.0	126
149	PHARYNX ETC	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0
150	ESOPHAGUS	63.1	24.2	8.2	4.4	100.0	24.9	6.6	6.9	100.0	289
151	STOMACH	23.7	11.9	26.7	37.8	100.0	9.8	41.2	33.3	100.0	51
152	SMALL INTESTINE	0.0	0.0	0.0	100.0	100.0	0.0	0.0	100.0	100.0	1
153	COLON	11.1	3.7	9.3	75.9	100.0	8.0	8.0	64.0	100.0	25
154	RECTUM	45.9	22.9	8.8	22.4	100.0	28.0	11.0	22.0	100.0	82
155	LIVER	52.9	11.8	23.5	11.8	100.0	40.0	0.0	20.0	100.0	5
156	GALLBLADDER	22.2	0.0	22.2	55.6	100.0	9.1	22.7	59.1	100.0	22
157	PANCREAS	13.3	13.3	13.3	60.0	100.0	12.5	25.0	25.0	100.0	8
158	RETROPERITONEUM	27.8	11.1	5.6	55.6	100.0	16.7	0.0	66.7	100.0	6
159	OTHER DIG SYS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
160	NASAL CAVITY	13.8	50.6	13.8	21.8	100.0	8.6	6.9	25.9	100.0	58
161	LYNX	21.6	65.8	1.9	10.8	100.0	25.0	2.8	13.9	100.0	36
162	LUNG	22.8	43.2	24.8	9.2	100.0	43.3	25.4	3.0	100.0	67
163	PLEURA	0.0	0.0	0.0	100.0	100.0	0.0	0.0	100.0	100.0	1
164	THYMUS	100.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	1
165	OTHER RES SYS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
170	BONE	29.0	40.9	5.4	24.7	100.0	27.7	10.6	29.8	100.0	47
171	CONNECTIVE TIS	14.3	11.2	7.1	67.3	100.0	17.3	3.8	69.2	100.0	52
172	SKIN MELANOMA	16.7	25.0	8.3	50.0	100.0	33.3	0.0	66.7	100.0	9
173	SKIN OTHER	41.2	11.8	0.0	47.1	100.0	6.5	6.5	41.3	100.0	46
174	BREAST FEM	0.0	0.0	0.0	0.0	0.0	23.8	6.4	55.7	100.0	972
175	BREAST MALE	4.8	19.0	0.0	76.2	100.0	0.0	0.0	0.0	0.0	0
179	UTERUS UNS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
180	CERVIX UTERI	0.0	0.0	0.0	0.0	0.0	47.3	6.5	23.3	100.0	1660
181	PLACENTA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
182	BODY UTERUS	0.0	0.0	0.0	0.0	0.0	31.9	4.3	56.5	100.0	69
183	OVARY	0.0	0.0	0.0	0.0	0.0	1.7	16.5	75.0	100.0	176
184	VAGINA	0.0	0.0	0.0	0.0	0.0	43.8	12.5	10.4	100.0	48
185	PROSTATE	10.7	8.0	24.0	57.3	100.0	0.0	0.0	0.0	0.0	0
186	TESTIS	3.4	5.7	8.0	82.8	100.0	0.0	0.0	0.0	0.0	0
187	PENIS ETC	28.4	35.8	3.2	32.6	100.0	0.0	0.0	0.0	0.0	0
188	URI BLADDER	41.2	14.1	5.9	38.8	100.0	22.2	11.1	33.3	100.0	9
189	KIDNEY	13.8	13.8	10.3	62.1	100.0	5.3	10.5	63.2	100.0	19
190	EYE	27.8	0.0	0.0	72.2	100.0	16.7	0.0	50.0	100.0	12
191	BRAIN	4.1	0.0	0.0	95.9	100.0	4.0	0.0	96.0	100.0	25
192	NERVOUS SYS	0.0	0.0	33.3	66.7	100.0	0.0	0.0	100.0	100.0	0
193	THYROID GLAND	6.0	24.0	14.0	56.0	100.0	9.9	8.5	66.2	100.0	71
194	OTH ENDO GLDS	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0	1
195	ILL DEF SITES	20.0	40.0	20.0	20.0	100.0	0.0	100.0	0.0	100.0	1
196	SEC LYMPH NODES	0.0	44.4	38.9	16.7	100.0	25.9	51.9	22.2	100.0	27
197	SEC RES ETC	0.0	0.0	84.6	15.4	100.0	0.0	80.4	19.6	100.0	51
198	SEC OTHER	0.0	0.0	78.9	21.1	100.0	0.0	56.3	43.8	100.0	16
199	PRIM UNK	0.0	17.3	70.1	12.6	100.0	2.1	78.7	19.1	100.0	47
200-208		4.6	4.7	0.9	89.8	100.0	4.2	0.0	91.2	100.0	307
%		19.4	40.7	9.8	30.1	100.0	20.3	8.9	36.2	100.0	4871

HOSPITAL CANCER REGISTRY: CANCER INSTITUTE, MADRAS

The hospital tumour registry of the Cancer Institute has been in existence since its inception in 1955. Since January 1, 1984 the hospital cancer registry collaborates with the National Cancer Registry Project (ICMR).

The Institute is a comprehensive cancer centre. A micro-computer DCM—Tandy TRS 80 Model 4 is used for quality checking and analysis of hospital cancer registry data.

Comments: A total of 3973 cases were registered during the year 1984, of whom 1807 were males and 2166 were females. The regional distribution of cancer cases registered are from Tamil Nadu 50.0%, Andhra Pradesh 40.4%, Kerala 4.8%, Assam 2.3% and remaining from other parts of India and from neighbouring countries. Major language groups are Tamil, Telugu and Malayalam and religious groups are Hindu, Christian and Muslim.

Cancers of the lip, oral cavity and pharynx are frequent in males (35.9%) than females (14.3%) of total cancer cases.

Relative frequency of oesophagus (8.1%) and stomach (7.6%) cancers in men is higher than women, oesophagus (2.8%) and stomach (2.2%).

Relative frequency of uterine cervix (47.8%) is very high in Madras hospital data in women and breast cancer (14.1%) is moderately high.

Dr. V. SHANTA, Project Chief

Dr. C. K. GAJALAKSHMI, Officer-in-Charge

HOSPITAL CANCER REGISTRY MADRAS SEX : MALE YEAR : 1984
CANCER CASES BY AGE AND SITE (ICD-9), AND PERCENTAGES

ICD-9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140	LIP	0	0	0	0	0	0	0	1	0	1	2	0	0	0	0	0	0	4	0.22
141	TONGUE	0	0	0	0	0	1	4	8	9	25	31	23	20	12	15	7	0	155	8.58
142	SALIVARY GL	0	0	0	0	1	1	1	1	2	0	5	3	2	2	1	0	0	17	0.94
143	GUM	0	0	0	0	1	1	1	1	0	11	8	9	6	7	3	1	0	48	2.66
144	FLOOR OF MO	0	0	0	0	0	0	0	1	1	0	3	3	2	2	2	0	0	16	0.89
145	OTHER MOUTH	0	0	1	1	3	10	21	21	19	19	25	31	28	12	10	9	0	173	9.57
146	OROPHARYNX	0	0	0	0	0	2	2	2	5	9	15	12	13	7	5	1	0	71	3.93
147	NASOPHARYNX	0	0	0	0	1	1	1	1	3	1	1	1	0	1	1	1	0	13	0.72
148	HYPOPHARYNX	0	0	0	0	2	8	10	16	10	16	22	17	20	15	8	5	0	134	7.42
149	PHARYNX ETC	0	0	0	0	0	2	2	0	3	0	2	3	3	2	1	1	0	17	0.94
150	ESOPHAGUS	0	0	0	0	0	4	4	7	12	20	28	28	19	14	6	5	0	147	8.14
151	STOMACH	0	0	0	0	3	4	3	6	9	14	23	30	15	16	8	7	0	138	7.64
152	SMALL INTES	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0.11
153	COLON	0	0	0	1	0	0	0	2	0	3	2	1	0	1	0	1	0	12	0.66
154	RECTUM	0	0	0	0	1	5	5	5	1	4	10	9	4	3	4	0	0	51	2.82
155	LIVER	0	0	0	0	3	2	4	4	1	1	8	3	4	3	0	1	0	35	1.94
156	GALLBLADDER	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.06
157	PANCREAS	0	0	0	0	0	0	0	0	1	1	0	2	0	1	0	0	0	5	0.28
158	RETROPERITO	0	0	0	0	1	0	2	0	1	0	0	1	1	0	0	0	0	6	0.33
159	OTHER DIG S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
160	NASAL CAVIT	0	0	0	0	0	0	1	1	2	2	3	2	5	3	0	1	0	20	1.11
161	LARYNX	0	0	0	0	2	0	1	0	2	9	11	18	17	7	4	3	0	71	3.93
162	LUNG	0	0	0	0	1	0	2	6	14	16	24	25	18	14	6	3	0	129	7.14
163	PLEURA	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	0.11
164	THYMUS	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.00
165	OTHER RES S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	BONE	1	2	7	6	9	4	0	0	1	2	1	2	1	1	0	0	0	37	2.05
171	CONNECTIVE	1	0	1	2	1	3	3	4	2	1	5	2	2	1	1	0	0	25	1.38
172	SKIN MELANO	0	0	0	0	0	0	0	0	0	0	2	1	2	1	1	0	0	10	0.55
173	SKIN OTHER	0	0	0	0	1	1	1	1	2	7	2	4	4	3	4	0	0	29	1.60
175	BREAST MALE	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	3	0.17
185	PROSTATE	0	0	0	0	0	0	0	0	0	2	1	2	5	1	2	1	0	14	0.77
186	TESTIS	0	0	0	1	4	2	1	1	3	15	6	9	2	0	0	0	0	20	1.11
187	PENIS ETC	0	0	0	0	1	0	5	7	9	22	11	9	3	3	2	5	0	71	3.93
188	URI BLADDER	0	0	0	0	0	0	0	1	1	2	3	2	2	1	1	1	0	14	0.77
189	KIDNEY	2	0	0	0	0	1	0	0	0	0	1	1	1	1	0	0	0	8	0.44
190	EYE	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.06
191	BRAIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.06
192	NERVOUS SYS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	1.27
193	THYROID GLA	0	0	0	1	0	0	3	2	0	0	5	3	5	1	0	0	0	1	0.06
194	OTH ENDO GL	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	16	0.89
195	ILL DEF SIT	0	0	0	0	1	1	0	2	1	1	4	1	1	2	2	0	0	34	1.88
196	SEC LYMPH N	0	0	0	0	1	1	0	2	3	5	4	5	4	4	2	3	0	11	0.61
197	SEC RES ETC	0	0	0	0	0	0	0	0	1	2	3	2	1	1	0	0	0	13	0.72
198	SEC OTHER	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	5	0.28
199	PRIM UNK	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0.11
200	LYMPHOSARCO	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	34	1.88
201	HODGKINS DI	2	12	5	3	1	4	3	0	1	2	0	0	1	0	0	0	0	66	3.65
202	OTH LYMPHOM	1	0	6	4	4	9	6	2	7	5	6	5	3	5	2	1	0	13	0.72
203	MULT MYELOM	0	0	0	1	1	1	1	0	1	2	3	1	2	1	1	0	0	30	1.66
204	LEUK LYMPHA	6	2	5	6	1	2	2	4	4	0	2	0	2	0	0	0	0	42	2.32
205	LEUK MYELOI	1	1	4	0	1	8	6	4	4	7	1	2	2	0	0	1	0	1	0.06
206	LEUK MONOCY	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.06
207	LEUK OTH SP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.28
208	LEUK UNS	2	1	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	1807	100.00
TOTAL		22	21	31	28	45	60	77	97	135	215	281	264	226	152	95	58	0	1807	100.00

HOSPITAL CANCER REGISTRY MADRAS SEX : FEMALE YEAR : 1984
CANCER CASES BY AGE AND SITE (ICD.9), AND PERCENTAGES

ICD.9	SITE	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	ANS	TOTAL	%
140	LIP	0	0	0	0	0	0	0	0	0	6	0	0	0	1	0	0	0	7	0.32
141	TONGUE	0	0	0	0	0	0	0	0	5	5	6	2	6	1	4	4	0	36	1.66
142	SALIVARY GL	0	0	0	0	0	2	1	2	0	2	1	2	1	0	1	0	0	12	0.55
143	GUM	0	0	0	0	0	0	2	3	7	11	9	5	15	3	6	1	0	62	2.86
144	FLOOR OF MO	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	4	0.18
145	OTHER MOUTH	0	0	0	0	0	1	5	8	23	17	25	17	20	5	3	2	0	126	5.82
146	OROPHARYNX	0	0	0	0	0	0	0	3	0	0	3	1	3	0	0	0	0	10	0.46
147	NASOPHARYNX	0	0	0	0	0	0	0	0	0	1	3	5	1	1	0	0	0	5	0.23
148	HYPOPHARYNX	0	0	0	0	0	0	0	5	7	9	3	5	2	3	3	1	0	43	1.99
149	PHARYNX ETC	0	0	0	0	0	0	0	0	1	10	12	3	3	11	5	5	0	61	2.82
150	ESOPHAGUS	0	0	0	0	0	4	2	4	8	7	9	4	11	3	1	1	0	47	2.17
151	STOMACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
152	SMALL INTES	0	0	0	0	0	0	0	0	0	2	1	1	1	0	0	0	0	5	0.23
153	COLON	0	0	0	0	0	0	0	0	0	2	3	3	5	2	3	2	0	28	1.29
154	RECTUM	0	0	0	0	0	0	0	3	3	2	1	0	0	1	0	0	0	6	0.28
155	LIVER	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0.09
156	GALLBLADDER	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0.09
157	PANCREAS	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2	0.09
158	RETROPERITO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.05
159	OTHER DIG S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
160	NASAL CAVIT	0	0	0	0	0	0	0	0	2	1	2	0	2	1	0	0	0	10	0.46
161	LARYNX	0	0	0	0	0	0	0	0	1	0	2	1	2	1	1	2	0	16	0.74
162	LUNG	0	0	0	0	0	0	0	2	1	2	3	1	2	1	1	0	0	1	0.05
163	PLEURA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
164	THYMUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
165	OTHER RES S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
170	BONE	0	2	3	2	1	1	4	3	1	3	2	0	1	1	0	0	0	21	0.97
171	CONNECTIVE	0	0	1	2	1	1	8	2	3	1	3	2	1	1	0	0	0	15	0.69
172	SKIN MELANO	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0.09
173	SKIN OTHER	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	11	0.51
174	BREAST FEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	306	14.13
179	UTERUS UNS	0	0	0	0	0	0	0	0	0	0	45	30	27	15	18	10	0	0	0.00
180	CERVIX UTER	0	0	0	0	0	0	0	0	0	0	165	102	79	38	16	10	0	1027	47.41
181	PLACENTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.09
182	BODY UTERUS	0	0	0	0	0	0	0	0	0	4	5	6	8	3	2	1	0	32	1.48
183	OVARY	0	0	0	0	0	0	0	0	0	13	3	3	5	3	2	1	0	51	2.35
184	VAGINA	1	0	0	0	0	0	0	0	0	16	7	8	4	3	2	1	0	59	2.72
188	URI BLADDER	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	3	0.14
189	KIDNEY	1	0	0	0	0	0	0	0	0	2	0	1	1	0	0	0	0	6	0.28
190	EYE	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.05
191	BRAIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
192	NERVOUS SYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
193	THYROID GLA	0	0	0	0	0	0	0	0	4	6	2	0	4	1	2	1	0	27	1.25
194	OTH ENDO GL	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.05
195	ILL DEF SIT	0	0	0	0	0	0	0	1	1	0	1	2	1	0	0	0	0	6	0.28
196	SEC LYMPH N	0	0	0	0	0	0	0	0	0	1	0	0	1	0	3	0	0	11	0.51
197	SEC RES ETC	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	6	0.28
198	SEC OTHER	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3	0.14
199	PRIM UNK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0.09
200	LYMPHOSARCO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.09
201	HODGKINS DI	0	2	2	1	2	0	0	0	2	0	0	0	1	0	0	0	0	9	0.42
202	OTH LYMPHOM	0	2	2	0	0	1	0	0	4	1	2	0	1	0	0	1	0	17	0.78
203	MULT MYELOM	0	0	0	0	0	0	0	0	0	2	2	0	1	0	0	0	0	5	0.23
204	LEUK LYMPHA	1	3	2	1	1	1	4	1	6	4	2	0	1	0	0	0	0	10	0.46
205	LEUK MYELOI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	1.11
206	LEUK MONOCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.05
207	LEUK OTH SP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
208	LEUK UNS	0	2	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	5	0.23
TOTAL																			2166	100.00

HOSPITAL CANCER REGISTRY MADRAS SEX : MALE YEAR : 1984
CASES OF CANCER BY METHOD OF DIAGNOSIS AND SITE (ICD-9)

ICD 9TH	SITE	MICROSCOPIC		X-RAY		CLINICAL ONLY		OTHERS		TOTALS	
		n	%	n	%	n	%	n	%	n	%
140	LIP	1	25.00	0	0.00	3	75.00	0	0.00	4	100.00
141	TONGUE	86	55.48	0	0.00	66	42.58	3	1.94	155	100.00
142	SALIVARY GLANDS	8	47.06	0	0.00	9	52.94	0	0.00	17	100.00
143	GUM	32	66.67	0	0.00	16	33.33	0	0.00	48	100.00
144	FLOOR OF MOUTH	8	50.00	0	0.00	8	50.00	0	0.00	16	100.00
145	OTHER MOUTH	103	59.54	0	0.00	70	40.46	0	0.00	173	100.00
146	OROPHARYNX	37	52.11	0	0.00	28	39.44	6	8.45	71	100.00
147	NASOPHARYNX	11	84.62	0	0.00	2	15.38	0	0.00	13	100.00
148	HYPOPHARYNX	80	59.70	1	0.75	36	26.87	17	12.69	134	100.00
149	PHARYNX ETC	13	76.47	0	0.00	3	17.65	1	5.88	17	100.00
150	ESOPHAGUS	87	59.18	16	10.88	12	8.16	32	21.77	147	100.00
151	STOMACH	42	30.43	27	19.57	37	26.81	32	23.19	138	100.00
152	SMALL INTESTINE	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
153	COLON	7	58.33	1	8.33	2	16.67	2	16.67	12	100.00
154	RECTUM	29	56.86	0	0.00	20	39.22	2	3.92	51	100.00
155	LIVER	20	57.14	5	14.29	10	28.57	0	0.00	35	100.00
156	GALLBLADDER	0	0.00	0	0.00	1	100.00	0	0.00	1	100.00
157	PANCREAS	0	0.00	2	40.00	2	40.00	1	20.00	5	100.00
158	RETROPERITONEUM	6	100.00	0	0.00	0	0.00	0	0.00	6	100.00
159	OTHER DIG SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
160	NASAL CAVITY	13	65.00	0	0.00	7	35.00	0	0.00	20	100.00
161	LARYNX	53	74.65	0	0.00	10	14.08	8	11.27	71	100.00
162	LUNG	67	51.94	41	31.78	10	7.75	11	8.53	129	100.00
163	PLEURA	1	50.00	0	0.00	1	50.00	0	0.00	2	100.00
164	THYMUS	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
165	OTHER RES SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
170	BONE	34	91.89	3	8.11	0	0.00	0	0.00	37	100.00
171	CONNECTIVE TIS	22	88.00	1	4.00	2	8.00	0	0.00	25	100.00
172	SKIN MELANOMA	8	80.00	0	0.00	2	20.00	0	0.00	10	100.00
173	SKIN OTHER	24	82.76	0	0.00	5	17.24	0	0.00	29	100.00
175	BREAST MALE	3	100.00	0	0.00	0	0.00	0	0.00	3	100.00
185	PROSTATE	10	71.43	1	7.14	3	21.43	0	0.00	14	100.00
186	TESTIS	16	80.00	0	0.00	4	20.00	0	0.00	20	100.00
187	PENIS ETC	42	59.15	0	0.00	29	40.85	0	0.00	71	100.00
188	URI BLADDER	8	57.14	0	0.00	4	28.57	2	14.29	14	100.00
189	KIDNEY	6	75.00	2	25.00	0	0.00	0	0.00	8	100.00
190	EYE	0	0.00	0	0.00	1	100.00	0	0.00	1	100.00
191	BRAIN	7	87.50	0	0.00	0	0.00	0	0.00	7	100.00
192	NERVOUS SYS	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
193	THYROID GLAND	12	52.17	2	8.70	9	39.13	0	0.00	23	100.00
194	OTH ENDO GLDS	0	0.00	0	0.00	0	0.00	1	100.00	1	100.00
195	ILL DEF SITES	5	31.25	0	0.00	11	68.75	0	0.00	16	100.00
196	SEC LYMPH NODES	28	82.35	0	0.00	6	17.65	0	0.00	34	100.00
197	SEC RES ETC	4	36.36	4	36.36	3	27.27	0	0.00	11	100.00
198	SEC OTHER	10	76.92	3	23.08	0	0.00	0	0.00	13	100.00
199	PRIM UNK	1	20.00	1	20.00	3	60.00	0	0.00	5	100.00
200	LYMPHOSARCOMA	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
201	HODGKINS DIS	33	97.06	0	0.00	1	2.94	0	0.00	34	100.00
202	OTH LYMPHOMA	61	92.42	0	0.00	5	7.58	0	0.00	66	100.00
203	MULT MYELOMA	11	84.62	0	0.00	0	0.00	0	0.00	11	100.00
204	LEUK LYMPHATIC	30	100.00	0	0.00	0	0.00	0	0.00	30	100.00
205	LEUK MYELOID	42	100.00	0	0.00	0	0.00	0	0.00	42	100.00
206	LEUK MONOCYTIC	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
207	LEUK OTH SPE	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
208	LEUK UNS	5	100.00	0	0.00	0	0.00	0	0.00	5	100.00
ALL SITES TOTALS		1135	62.81	113	6.25	441	24.41	118	6.53	1807	100.00

CASES OF CANCER BY METHOD OF DIAGNOSIS AND SITE (ICD-9)

ICD 9TH	SITE	MICROSCOPIC		X-RAY		CLINICAL ONLY		OTHERS		TOTALS	
		n	%	n	%	n	%	n	%	n	%
140	LIP	5	71.43	0	0.00	2	28.57	0	0.00	7	100.00
141	TONGUE	13	36.11	0	0.00	23	63.89	0	0.00	36	100.00
142	SALIVARY GLANDS	9	75.00	0	0.00	3	25.00	0	0.00	12	100.00
143	GUM	40	64.52	0	0.00	22	35.48	0	0.00	62	100.00
144	FLOOR OF MOUTH	1	25.00	0	0.00	3	75.00	0	0.00	4	100.00
145	OTHER MOUTH	63	50.00	0	0.00	63	50.00	0	0.00	126	100.00
146	OROPHARYNX	5	50.00	0	0.00	5	50.00	0	0.00	10	100.00
147	NASOPHARYNX	3	60.00	2	40.00	0	0.00	0	0.00	5	100.00
148	HYPOPHARYNX	27	62.79	0	0.00	14	32.56	2	4.65	43	100.00
149	PHARYNX ETC	5	100.00	0	0.00	0	0.00	0	0.00	5	100.00
150	ESOPHAGUS	35	57.38	8	13.11	11	18.03	7	11.48	61	100.00
151	STOMACH	24	51.06	10	21.28	6	12.77	7	14.89	47	100.00
152	SMALL INTESTINE	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
153	COLON	3	60.00	0	0.00	1	20.00	1	20.00	5	100.00
154	RECTUM	20	71.43	1	3.57	6	21.43	1	3.57	28	100.00
155	LIVER	4	66.67	0	0.00	0	0.00	0	0.00	4	100.00
156	GALLBLADDER	0	0.00	0	0.00	2	100.00	0	0.00	2	100.00
157	PANCREAS	1	50.00	0	0.00	1	50.00	0	0.00	2	100.00
158	RETROPERITONEUM	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
159	OTHER DIG SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
160	NASAL CAVITY	7	70.00	0	0.00	3	30.00	0	0.00	10	100.00
161	LARYNX	2	33.33	0	0.00	3	50.00	1	16.67	6	100.00
162	LUNG	5	31.25	8	50.00	3	18.75	0	0.00	16	100.00
163	PLEURA	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
164	THYMUS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
165	OTHER RES SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
166	BONE	15	71.43	6	28.57	0	0.00	0	0.00	21	100.00
171	CONNECTIVE TIS	12	80.00	2	13.33	1	6.67	0	0.00	15	100.00
172	SKIN MELANOMA	1	50.00	0	0.00	1	50.00	0	0.00	2	100.00
173	SKIN OTHER	10	90.91	0	0.00	1	9.09	0	0.00	11	100.00
174	BREAST FEM	246	80.39	5	1.63	55	17.97	0	0.00	306	100.00
179	UTERUS UNS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
180	CERVIX UTERI	642	62.51	0	0.00	385	37.49	0	0.00	1027	100.00
181	PLACENTA	0	0.00	0	0.00	2	100.00	0	0.00	2	100.00
182	BODY UTERUS	29	90.63	0	0.00	3	9.38	0	0.00	32	100.00
183	OVARY	44	86.27	2	3.92	5	9.80	0	0.00	51	100.00
184	VAGINA	40	67.80	0	0.00	19	32.20	0	0.00	59	100.00
188	URI BLADDER	3	100.00	0	0.00	0	0.00	0	0.00	3	100.00
189	KIDNEY	3	50.00	3	50.00	0	0.00	0	0.00	6	100.00
190	EYE	5	83.33	0	0.00	1	16.67	0	0.00	6	100.00
191	BRAIN	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
192	NERVOUS SYS	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
193	THYROID GLAND	21	77.78	3	11.11	3	11.11	0	0.00	27	100.00
194	OTH ENDO GLDS	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
195	ILL DEF SITES	2	33.33	0	0.00	4	66.67	0	0.00	6	100.00
196	SEC LYMPH NODES	8	72.73	0	0.00	3	27.27	0	0.00	11	100.00
197	SEC RES ETC	2	33.33	3	50.00	1	16.67	0	0.00	6	100.00
198	SEC OTHER	2	66.67	1	33.33	0	0.00	0	0.00	3	100.00
199	PRIM UNK	0	0.00	1	50.00	1	50.00	0	0.00	2	100.00
200	LYMPHOSARCOMA	1	50.00	0	0.00	1	50.00	0	0.00	2	100.00
201	HODGKINS DIS	9	100.00	0	0.00	0	0.00	0	0.00	9	100.00
202	OTH LYMPHOMA	15	88.24	0	0.00	2	11.76	0	0.00	17	100.00
203	MULT MYELOMA	5	100.00	0	0.00	0	0.00	0	0.00	5	100.00
204	LEUK LYMPHATIC	10	100.00	0	0.00	0	0.00	0	0.00	10	100.00
205	LEUK MYELOID	24	100.00	0	0.00	0	0.00	0	0.00	24	100.00
206	LEUK MONOCYTIC	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
207	LEUK OTH SPE	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
208	LEUK UNS	5	100.00	0	0.00	0	0.00	0	0.00	5	100.00
ALL SITES TOTALS		1431	66.07	57	2.63	659	30.42	19	0.88	2166	100.00

HOSPITAL CANCER REGISTRY MADRAS
CANCER CASES BY EXTENT OF DISEASE

YEAR : 1984

ICD 9TH	SITE	MALES				FEMALES				TOTALS					
		LOCA	RLN	DISMET	OTH	%	TOTALS	n	LOCA	RLN	DISMET	OTH	%	TOTALS	n
140	LIP	50.0	25.0	25.0	0.0	100.0	4	4	42.9	42.9	0.0	14.3	100.0	7	7
141	TONGUE	17.4	56.1	12.3	14.2	100.0	155	155	11.1	61.1	13.9	13.9	100.0	36	36
142	SALIVARY GLANDS	5.9	70.6	5.9	17.6	100.0	17	17	16.7	50.0	0.0	33.3	100.0	12	12
143		GUM	8.3	77.1	4.2	10.4	100.0	48	48	6.5	85.5	3.2	4.8	100.0	62
144	FLOOR OF MOUTH	31.3	50.0	6.3	12.5	100.0	16	16	0.0	75.0	25.0	0.0	100.0	4	4
145	OTHER MOUTH	12.1	68.2	6.4	13.3	100.0	173	173	11.1	69.8	7.9	11.1	100.0	126	126
146	OROPHARYNX	7.0	70.4	14.1	8.5	100.0	71	71	0.0	70.0	10.0	20.0	100.0	10	10
147	NASOPHARYNX	0.0	100.0	0.0	0.0	100.0	13	13	0.0	100.0	0.0	0.0	100.0	5	5
148	HYPOPHARYNX	2.2	72.4	6.0	19.4	100.0	134	134	11.6	67.4	7.0	14.0	100.0	43	43
149	PHARYNX ETC	5.9	88.2	0.0	5.9	100.0	17	17	0.0	100.0	0.0	0.0	100.0	5	5
150	OESOPHAGUS	40.1	34.7	17.0	8.2	100.0	147	147	26.2	41.0	21.3	11.5	100.0	61	61
151	STOMACH	12.3	21.7	47.8	18.1	100.0	138	138	10.6	27.7	38.3	23.4	100.0	47	47
152	SMALL INTESTINE	0.0	0.0	100.0	0.0	100.0	2	2	0.0	0.0	0.0	0.0	0.0	0	0
153	COLON	0.0	41.7	8.3	50.0	100.0	12	12	0.0	40.0	0.0	60.0	100.0	5	5
154	RECTUM	23.5	39.2	19.6	17.6	100.0	51	51	35.7	42.9	14.3	7.1	100.0	28	28
155	LIVER	62.9	0.0	20.0	17.1	100.0	35	35	50.0	0.0	16.7	33.3	100.0	6	6
156	GALLBLADDER	0.0	0.0	0.0	100.0	100.0	1	1	0.0	0.0	50.0	50.0	100.0	2	2
157	PANCREAS	0.0	60.0	0.0	40.0	100.0	5	5	0.0	0.0	100.0	0.0	100.0	2	2
158	RETROPERITONEUM	16.7	16.7	50.0	16.7	100.0	6	6	0.0	100.0	0.0	0.0	100.0	1	1
159	OTHER DIG SYS	0.0	0.0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0.0	0.0	0	0
160	NASAL CAVITY	20.0	60.0	10.0	10.0	100.0	20	20	30.0	40.0	30.0	0.0	100.0	10	10
161	LARYNX	36.6	49.3	1.4	12.7	100.0	71	71	0.0	83.3	0.0	16.7	100.0	6	6
162	LUNG	14.0	33.3	46.5	6.2	100.0	129	129	12.5	43.8	31.3	12.5	100.0	16	16
163	PLEURA	50.0	0.0	50.0	0.0	100.0	2	2	0.0	0.0	100.0	0.0	100.0	1	1
164	THYMUS	0.0	50.0	0.0	50.0	100.0	2	2	0.0	0.0	0.0	0.0	0.0	0	0
165	OTHER RES SYS	0.0	0.0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0.0	0.0	0	0
170	BONE	43.2	24.3	13.5	18.9	100.0	37	37	47.6	19.0	4.8	28.6	100.0	21	21
171	CONNECTIVE TIS	36.0	28.0	4.0	32.0	100.0	25	25	33.3	33.3	0.0	33.3	100.0	15	15
172	SKIN MELANOMA	30.0	50.0	0.0	20.0	100.0	10	10	0.0	100.0	0.0	0.0	100.0	2	2
173	SKIN OTHER	44.8	41.4	10.3	3.4	100.0	29	29	27.3	72.7	0.0	0.0	100.0	11	11
174	BREAST FEM	0.0	0.0	0.0	0.0	0.0	0	0	5.9	57.5	10.8	25.8	100.0	306	306
175	BREAST MALE	0.0	66.7	33.3	0.0	100.0	3	3	0.0	0.0	0.0	0.0	0.0	0	0
179	UTERUS UNS	0.0	0.0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0.0	0.0	0	0
180	CERVIX UTERI	0.0	0.0	0.0	0.0	0.0	0	0	13.2	76.1	4.4	6.2	100.0	1027	1027
181	PLACENTA	0.0	0.0	0.0	0.0	0.0	0	0	0.0	0.0	100.0	0.0	100.0	2	2
182	BODY UTERUS	0.0	0.0	0.0	0.0	0.0	0	0	62.5	12.5	0.0	25.0	100.0	32	32
183	OVARY	0.0	0.0	0.0	0.0	0.0	0	0	21.6	21.6	23.5	33.3	100.0	51	51
184	VAGINA	0.0	0.0	0.0	0.0	0.0	0	0	11.9	61.0	8.5	18.6	100.0	59	59
185	PROSTATE	21.4	21.4	28.6	28.6	100.0	14	14	0.0	0.0	0.0	0.0	0.0	0	0
186	TESTIS	5.0	10.0	20.0	65.0	100.0	20	20	0.0	0.0	0.0	0.0	0.0	0	0
187	PENIS ETC	21.1	56.3	1.4	21.1	100.0	71	71	0.0	0.0	0.0	0.0	0.0	0	0
188	URI BLADDER	42.9	14.3	28.6	14.3	100.0	14	14	33.3	33.3	33.3	0.0	100.0	3	3
189	KIDNEY	12.5	12.5	50.0	25.0	100.0	8	8	0.0	33.3	50.0	16.7	100.0	6	6
190	EYE	12.5	12.5	12.5	62.5	100.0	8	8	33.3	16.7	0.0	50.0	100.0	6	6
191	BRAIN	100.0	0.0	0.0	0.0	100.0	1	1	0.0	0.0	0.0	100.0	100.0	1	1
192	NERVOUS SYS	100.0	0.0	0.0	0.0	100.0	1	1	0.0	0.0	0.0	0.0	0.0	0	0
193	THYROID GLAND	26.1	47.8	4.3	21.7	100.0	23	23	18.5	29.6	22.2	29.6	100.0	27	27
194	OTH ENDO GLDS	0.0	100.0	0.0	0.0	100.0	1	1	100.0	0.0	0.0	0.0	100.0	1	1
195	ILL DEF SITES	6.3	31.3	37.5	25.0	100.0	16	16	0.0	50.0	50.0	0.0	100.0	6	6
196	SEC LYMPH NODES	0.0	0.0	11.8	88.2	100.0	34	34	0.0	0.0	18.2	81.8	100.0	11	11
197	SEC RES ETC	0.0	0.0	72.7	27.3	100.0	11	11	0.0	0.0	100.0	0.0	100.0	6	6
198	SEC OTHER	0.0	0.0	92.3	7.7	100.0	13	13	0.0	0.0	100.0	0.0	100.0	3	3
199	PRIM UNK	0.0	0.0	80.0	20.0	100.0	5	5	0.0	0.0	100.0	0.0	100.0	2	2
200-208		0.0	0.0	1.5	98.5	100.0	194	194	0.0	0.0	0.0	100.0	100.0	73	73
%		16.9	41.0	16.4	25.7	100.0	1807	1807	13.4	61.5	9.0	16.1	100.0	2166	2166

