



REGIONAL
CANCER
CENTRE

Thiruvananthapuram
India

Over three decades of
changing lives.

Annual Report
2011-12



REGIONAL CANCER CENTRE

Thiruvananthapuram, India

- Established as per Govt. of India letter No. T. 200125/79 of October 1980 as one among 6 such Centres in India.
- Registered under Travancore Cochin Literary Scientific and Charitable Societies Registration Act 1955 vide No. 567/81 dated 19.08.1981.
- Designated as a Science & Technology Centre in health sector by State Government as per G. O. (Rt) No. 1521/85/11 H & FWD dated 18.11.1985.

VISION

To emerge as a global leader in cancer control.

MISSION

To

- Deliver highest quality cancer care at affordable cost.
- Create cancer awareness among public and health professionals.
- Generate trained manpower in cancer control.
- Organize outreach programmes in cancer control.
- Conduct focused cancer research relevant to our society.
- Lead cancer control activities in the state.

ANNUAL REPORT 2011-2012



REGIONAL CANCER CENTRE
THIRUVANANTHAPURAM - 695 011, KERALA, INDIA.

REGIONAL CANCER CENTRE

Thiruvananthapuram - 695 011, Kerala, India.

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GOVERNING BODY

1. Shri.V.S.Achuthanandan (Till 17.05.2011)
Hon'ble Chief Minister of Kerala Chairman
2. Shri. Oommen Chandy (From 18.05.2011)
Hon'ble Chief Minister of Kerala Chairman
3. Smt. P.K. Sreemathy Teacher (Till 17.05.2011)
Hon'ble Minister for Health & Social Welfare, Govt. of Kerala Vice-Chairman
4. Shri.Adoor Prakash (From 18.05.2011)
Hon'ble Minister for Health & Coir, Govt. of Kerala Vice-Chairman
5. Dr. Davendra Kumar Dhodavat, IAS (Till 24.05.2011)
Secretary to Govt. (Health & Family Welfare Dept.), Govt. of Kerala Alt.Vice-Chairman
6. Shri. Rajeev Sadanandan, IAS (From 25.05.2011)
Principal Secretary to Govt. (Health & Family Welfare Dept.), Govt. of Kerala Alt.Vice-Chairman
7. Dr.A.K. Dubey, IAS (Till 23.08.2011)
Principal Secretary to Government (Finance Dept.), Govt. of Kerala Member
8. Shri.V.P.Joy, IAS (From 24.08.2011)
Principal Secretary to Government (Finance Dept.), Govt. of Kerala Member
9. Shri.Subrata Biswas, IAS
Secretary to Govt. (Planning & Economic Affairs Dept.), Govt. of Kerala Member
10. Dr. K. Radhakrishnan
Director, Sree Chitra Tirunal Institute for Medical Sciences &
Technology, Thiruvananthapuram Member
11. Dr. R.K. Srivastava (Till 30.11.2011)
Director General of Health Services
Ministry of Health and Family Welfare, Govt. of India Member
12. Dr. Jagdish Prasad (From 01.12.2011)
Director General of Health Services
Ministry of Health and Family Welfare, Govt. of India Member
13. Shri. K. Chandramouli, IAS
Secretary to Government
Ministry of Health and Family Welfare, Govt. of India Member
14. Dr. S.C. Gupta
'Vidya', Pulayanarkotta Road, Thiruvananthapuram Member
15. Dr.V. Geetha
Director of Medical Education, Thiruvananthapuram Member
16. Dr. Ramdas Pisharody
Principal, Medical College, Thiruvananthapuram Member
17. Dr. Paul Sebastian
Director, Regional Cancer Centre Convener

EXECUTIVE COMMITTEE

1. Dr. Davendra Kumar Dhodavat, IAS (Till 24.05.2011)
Secretary to Govt. (Health & Family Welfare Dept.) Govt. of Kerala Chairman
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Principal, Medical College, Thiruvananthapuram Member
8. Dr. Paul Sebastian
Director, Regional Cancer Centre Convener



Dr. Paul Sebastian
Director

DIRECTOR'S REVIEW

The Regional Cancer Centre, Thiruvananthapuram, (RCC) now in its 31st year of leadership towards becoming a global leader in cancer control, is an autonomous scientific institution sponsored

jointly by the Government of Kerala and the Government of India receiving financial assistance from both. During this report period 1,78,523 patients including 14,282 new patients reported to the Centre for specialised cancer care.

Towards our mission of providing highest quality cancer care, we strengthened the existing infrastructure by adding new equipment. To augment the facilities for comprehensive breast care, we acquired an advanced breast imaging and biopsy unit, which incorporates Full Field Digital Mammography, Prone Table Biopsy, and Sentinel Node Biopsy with ultrasonography. The system ensures minimum discomfort to patients for biopsy, high resolution images and speedy report generation. It was installed under a generous funding worth Rs. 2.5 crores provided by Government of Kerala. Similarly our divisions of Radiation Oncology, Surgical Oncology, Radiation Physics, Anaesthesiology, Clinical Laboratory Medicine, Transfusion Medicine and Cancer Research have added new facilities and started new services for the benefits of our patients. These included HDR brachytherapy unit Microselectron (digital model-18 channel) with Oncentra planning system, new generation LEICA microscope, Video hysteroscope, MRI compatible anaesthesia workstation and infusion pump, Beckman Coulter LH 780 fully automated 5-part haematology analyser; Automatic Component Extractor (T-ACE), Automated Haematology Analyser and Chemiluminescence-Fluorescence Imaging System. Newly started services include Rapid Arc, Respiratory Gating, Stereotactic Radiotherapy (SRT), Stereotactic Radio Surgery (SRS) and Image Guided Brachytherapy for cervix cancer; laser surgeries using advanced LUMINIS system for oral and laryngeal cancers, limb salvage surgeries for bone sarcomas and sentinel node biopsy for early breast cancers.

Towards our mission of generating trained manpower for cancer control, we have been conducting various academic programmes. In addition to the ongoing DNB programmes, fellowship programmes, post-doctoral programmes, PhD programmes and other training programmes in various disciplines, we commenced super-speciality courses in oncology for the first time in Kerala. They include Medical Council of India approved MCh (Surgical Oncology) and DM (Medical Oncology) courses affiliated to Kerala University of Health Sciences. DM Programme in Paediatric Oncology, MD programmes in Radiotherapy and Radiodiagnosis are in the pipeline awaiting approval of Medical Council of India. One year Post-Basic Diploma in Oncology Nursing under accreditation of Nursing Council of India was also started. Programmes in early cancer detection and treatment and awareness classes were conducted as usual and health care professionals in Kerala were the major beneficiaries.

The efforts of our research resulted in 97 scientific papers, which included journal articles, chapters in books and conference papers. Out of the 41 journal articles, 34 were published in peer-reviewed indexed journals. An International Breast Cancer Conference was organised in collaboration with National Cancer Centre, Singapore to discuss novel developments in this field. 'Excellence in cancer surgery through innovations' was the theme of the two-day CME organised in association with Indian Association of Surgical Oncology (IASO), which was attended by over 300 cancer surgeons across the country. To uphold role of carers in cancer management and to address psychosocial, financial and physical aspects of cancer treatment, we observed the World Cancer Day with the theme 'Cancer patients and their family'. Interactive sessions with participation of patients, their care givers and experts, marked the event. World Palliative Care day was observed with education programmes for voluntary workers, sociologists and nurses.

We took many initiatives and organised many programmes as part of our commitment towards creating cancer awareness among public, health professionals and in organising outreach programmes in cancer control. Since inception, we have been playing a pivotal role in tobacco control activities in the State. As part of this, we joined hands with Directors of sixteen other Regional Cancer Centres, Voluntary Health Association of India, Action Council against Tobacco and Salam Bombay Foundation in our fight against tobacco. As a first step, appeals were addressed to the Hon. Prime Minister, Leader of Opposition, Union Health Minister and Members of Parliament for a complete ban on the sale of tobacco products. The letter urged the Union Government to show some urgency in tackling the tobacco menace in the country. RCC also led a series of interventions at the State level. On World No Tobacco Day, we led a group of victims of tobacco related cancers to meet the Hon. Chief Minister of Kerala, in an effort to augment tobacco control activities in the State. This has led to the ban on sale of tobacco products within a radius of 400 metres of educational institutions in the state. The RCC led coalition launched 'Tobacco-free Kerala' campaign in the wake of research reports and studies on the growing incidence of tobacco use among youth. To augment further, we provided technical support for 'Smoke-free Thiruvananthapuram', an initiative to enforce provisions of Indian Tobacco Act. We organised 263 cancer detection camps and 157 cancer awareness classes throughout the state. We joined the Global Breast Cancer Awareness movement through observance of Breast Cancer Awareness month, in October. Special breast cancer screening clinics and awareness programmes were conducted. Free clinics were attended by 610 women. On Breast Cancer Awareness day, a one day training programme was conducted for doctors attached to Kerala Government Health Services.

4088 patients availed quality treatment worth more than Rupees 7.5 crores through various State and Central Government schemes such as Cancer Suraksha Scheme, Chis Plus, Karunya Benevolent Fund, Society for Medical Assistance to the Poor, Thalolam, Comprehensive Health Care Scheme for Scheduled Castes/Scheduled Tribe, Snehasanthwanam for Endosulfan victims, Prime Minister's Relief Fund and Rashtriya Arogya Nidhi. Under the initiative 'Kinginicheppu', free food and treatment to poor paediatric patients continued through voluntary contributions. The Paediatric Oncology division has already mooted 'Home Away from Home' concept for registered patients with support groups such as Prathyasa and Delhi-based NGO CanKids. The facility offers home stay, formal and informal tuition classes, recreational activities, and so on. Assurances in various forms were received from other quarters including Tata Global Beverages Ltd, Ananthapuri Educational Society, Chinmaya

Yuva Kendra, Technopark Employees and Fine Arts College students. RCC based NGOs like Asraya, Care Plus, and Prathyasa continued their unrelenting support throughout the period. To alleviate the psychological distress, several cultural events were organised with active participation of celebrities during special occasions like Vishu, Onam, Christmas and New Year.

Visitors from abroad included Dr. Daniel A. Monti, Executive & Medical Director, Thomas Jefferson University Hospital, Philadelphia, Dr. R. Michael Tuttle, Endocrinologist, Memorial Sloan Kettering Cancer Centre, New York, USA, Dr. Cherian Varghese, Technical Officer, Non Communicable Diseases, Manila, Philippines, Dr. Sadasivan Vidyasagar, Assistant Professor, Radiation Oncology, University of Florida, Donald Sheppard, Associate Professor, Department of Medicine, Mc Gill University, USA. Besides, visits were also paid by Dr. Shashi Tharoor, Member of Parliament and Legislative Committee on Private Members Bills and Resolutions, Government of Kerala.

RCC received the Kerala State Energy Conservation Award (2011) in appreciation of the commendable achievements in energy conservation and management in the category of buildings. Our Transfusion Medicine division received the award for the maximum number of blood donations in the State, in connection with National Blood Donor Day (1 October 2011). The first step towards getting the NABH accreditation was completed when the accreditation team made their first visit to the Centre in February 2012.

Through our multi-faceted activities, we are striving to give the society a message to unite in the fight against cancer. It is another year of progress in the history of RCC's voyage, with unrelenting support from staff and well wishers.

I am very pleased to present the annual report, which contains activities of various divisions, clinics and outreach centres of RCC for the period 2011-2012.



Dr. Paul Sebastian
Director

I. Major Diagnostic & Treatment Facilities

RCC is a tertiary level comprehensive cancer centre providing state-of-the-art facilities for diagnosis and treatment.

DIAGNOSTIC FACILITIES

Pathology

- Surgical Pathology
- Cytopathology
- Haematopathology
- Molecular Pathology: Flow Cytometry, FISH, PCR, RT/PCR

Imageology

- 1.5 Tesla MRI, MR Spectroscopy
- 16 Slice Multidetector CT
- Digital Mammography with Prone Table Biopsy & mammotome
- Stereotactic Mammography Unit
- Ultrasound machines & X-ray units
- Computed Radiography system

Nuclear Medicine

- SPECT Dual head Gamma Camera
- Chemiluminescence assay system

Clinical Laboratory

- Beckman Coulter LH 750 5-part Haematology Analyser
- LH 780 Fully Automated 5-part Haematology Analyser
- VITROS 5600 Integrated System (1st system in Kerala)
- VITROS 5,1 FS Chemistry System
- Helena SAS 3/SAS 4 Fully Automated Electrophoretic System (2nd system in India)
- Amax Destiny Plus Fully Automated Coagulation Analyser (TCoag)
- ABL Flex Blood Gas Analyser (Radiometer) (1st system in Kerala)
- Shimadzu HPLC System
- Heraeus Megafuge 16R Refrigerated Centrifuge

Transfusion Medicine

- NACO approved Fully automated Blood Bank
- Blood Irradiator
- Cryofuge
- Plateletapheresis
- Plasma Thaw Bath
- Automatic Component Extractor T-ACE, for preparation of leucoreduced products.
- Fully Automated ELISA machine
- Automated Haematology Analyser

Microbiology

- Automated Blood Culture System (BacT/Alert)
- Automated Identification and Sensitivity Testing (VITEK)
- Microscopy, Routine Culture, Sensitivity Tests, Fungal Culture, AFB Culture, Surveillance Culture.

TREATMENT FACILITIES

Radiation Oncology

- Linear accelerators (4)
- Telecobalt units (2)
- IGRT, IMRT/Rapid Arc, SRS/SRT, 3-D Conformal RT & Portal imaging
- Image Guided Brachytherapy for Cervix Cancer
- Digital Simulator & CT Simulator
- Treatment planning systems
- HDR Brachytherapy
- Quality assurance equipments

Surgical Oncology

- 7 Modern operation theatres
- Operating microscope & Video endoscopes
- Minimally invasive surgery
- Limb Salvage Surgery
- Sentinel lymph node biopsy
- State of the art ICU
- Mobile C-arm image intensifier
- Laser for microlaryngeal surgery
- Precision drill & saw system

Medical Oncology

- Facilities to administer chemotherapy for all types of cancers
- 4 Bedded bone marrow transplantation unit
- High dependency chemotherapy ward

Paediatric Oncology

- First Paediatric Oncology division in India.
- 50 Bedded exclusive Paediatric Oncology ward
- Indian Paediatric Oncology Initiative (IPOI) supported by Jiv Daya Foundation, USA aimed at improving the quality of paediatric oncology patient care.

Palliative Medicine

- First organised cancer pain clinic in the country
- Availability of oral morphine in liquid, tablet and capsule forms.
- Inpatient service and hospice care
- Home care service, Rehabilitation, Support groups
- Networking of palliative care services throughout Kerala

2. Diagnostic & Treatment Facilities Added During the Period

Radiation Oncology

- Rapid Arc, Respiratory Gating, Stereotactic Radiotherapy (SRT), Stereotactic Radio Surgery (SRS) and Image Guided Brachytherapy for cervix cancer were started.
- HDR brachytherapy unit Microselectron (digital model-18 channel) along with Oncentra planning system.

Surgical Oncology

- Laser surgeries using advanced LUMINIS system for early oral and laryngeal cancers.
- New generation LEICA microscope with teaching aids for micro laryngeal surgeries.
- Video hysteroscope and new generation video colposcopes with teaching aid facilities and image archiving facilities.
- Limb salvage surgeries for bone sarcomas.
- Sentinel node biopsy for early breast cancers.
- LED operation theatre lights for better ergonomics and efficient energy utilization.

Anaesthesiology

- Five anaesthesia workstations including one MRI compatible workstation, MRI compatible infusion pump and multiparameter monitor.

Clinical Laboratory Services

- Beckman Coulter LH 780 fully automated 5-part haematology analyser.

Transfusion Medicine

- Automatic Component Extractor T-ACE, for preparation of leucoreduced products.
- Automated Haematology Analyser

Cancer Research

- Chemiluminescence-Fluorescence Imaging System

3. Human Resource Development

RCC has been playing a key role in generating trained manpower in cancer control through conducting superspeciality, postgraduate, post-doctoral, fellowship, graduate and diploma level academic programmes. The Centre is also sought-after by students from various Universities for their training in different areas such as Radiotherapy, Surgical Oncology, Cancer Research (Biotechnology), Cancer Epidemiology, Nursing, Blood Banking, Laboratory Technology, Cytopathology, Microbiology, Radiation Physics, etc. Community Oncology Division also generates trained manpower through organising trainer-trainee programmes for Doctors, Gynaecologists, Dentists, Nurses, Paramedicals, Health workers, other professionals and lay-public to enable early detection of cancer. Training is also provided for postgraduate trainees from various Medical and Dental Colleges in Kerala, Tamil Nadu, Karnataka and Maharashtra. Over 500 post graduate medical and life science students from different institutions all over the country came for rotation postings and project training as part of their curriculum.

Course Name	Intake capacity	Duration
MCh (Surgical Oncology)	4	3 Yrs
DM (Medical Oncology)	2	3 Yrs
DNB (Surgical Oncology)	2	3 Yrs
DNB (Medical Oncology)	1	3 Yrs
DNB (Radiotherapy)	4	3 Yrs
DNB (Radiodiagnosis)	4	3 Yrs
DNB (Pathology)	4	3 Yrs
DNB (Anaesthesiology)	4	3 Yrs
Fellowship Training (Head & Neck Surgery)	1	2 Yrs
Fellowship Training (Gynecologic Oncology)	1	2 Yrs
Post-doctoral (Oncopathology)	2	2 Yrs
Quality Excellence Programme in Pathology	6	1 Yr
Advanced Training in Diagnostic Imaging	2	1 Yr
Post-basic Diploma in Oncology Nursing	20	1 Yr
Cytotechnology	4	1 Yr
Cytotechnician	6	6 Months
Histotechnology	4	9 Months
Certificate Course in Palliative Care	25/session	8 weeks distance learning programme (July & November sessions)

List of Candidates Under Various Academic Programmes

MCh (Surgical Oncology)

Dr. Jagad Vijay Jagdish
Dr. Alagu Ganesh
Dr. Shubhanshu Gupta
Dr. Nithin Leekha

DM (Medical Oncology)

Dr. Abdul Shahid P.P.
Dr. Lakshmi Haridas

DNB (Surgical Oncology)

Dr. Jency Joy
Dr. Senthil Kumar N.
Dr. Wagh Mira Sudan

DNB (Radiodiagnosis)

Dr. Sajjan S.
Dr. Reshmi C.P.
Dr. Sabale Avinash Baban Rao

DNB (Anaesthesiology)

Dr. Rana Sivanandan
Dr. Merin Joselin George
Dr. Apama Sudarsan
Dr. Piyush Svadas Thoppil
Dr. Manju B.
Dr. Gayatri Sasikumar
Dr. Hashim K.V.

DNB (Pathology)

Dr. Smitha P. Nair
Dr. Patil Shridhan Anand
Dr. Arunkumar N.
Dr. Alfy Ann George
Dr. Ahluwalia Gurpreet Kaur

DNB (Radiotherapy)

Dr. Shruti Maheswari
Dr. Sumithra Nair
Dr. Ganesh S.
Dr. Durva A. Kurkure
Dr. Sanudev Sadanandan V.P.
Dr. Biju Azariah
Dr. Mayura Vaiduriam J.

Post Doctoral Certificate Course in Oncopathology

Dr. Kulothungan K.

Fellowship Training in Head & Neck Surgical Oncology

Dr. Sisha Liz Abraham

Fellowship Training in Gynaecology Surgical Oncology

Dr. Dhanya Dinesh

4. Patient Welfare Services

RCC has implemented several schemes for providing economic assistance, free food, free drugs and various rehabilitation facilities for patients and their families through governmental and non-governmental support programmes.

Central and State Government Schemes:

Both the Central and State Governments have initiated several generous schemes to ensure free or subsidized treatment for patients. During the report year, 4088 patients benefitted from such schemes as shown in the table below.

State and Central Government Schemes (1st April 2011 to 31st March 2012)

Scheme	Total no. benefited	No. of new cases	Amount Spent (Rs.)
Cancer Suraksha Scheme (Govt. of Kerala)	1307	531	3,56,92,261.20
Chis Plus (Govt. of Kerala)	1763	1763	2,52,21,776.98
Karunya Benevolent Fund (Govt. of Kerala)	8	8	2,83,161.05
Society for Medical Assistance to the Poor (Govt. of Kerala)	325	61	30,67,299.00
Thalolam (Govt. of Kerala)	20	8	2,32,673.35
Comprehensive Health Care Scheme for Scheduled Castes/Scheduled Tribe (STDD) (Govt. of Kerala)	69	24	11,00,604.45
Snehasanthwanam for Endosulfan victims (Govt. of Kerala)	16	16	5,62,399.00
Prime Minister's Relief Fund	140	68	44,08,887.50
Health Minister's Rashtriya Arogya Nidhi (RAN)	440	307	71,72,426.35
Total	4088	2786	7,77,41,488.88

RCC Initiatives:

In addition to the Government supported schemes RCC provides support to patients' and families through various other schemes as detailed below:

1. Cancer Care for Life (CCL) Scheme

During the reporting period 14,929 new members were enrolled into this unique insurance programme and an amount of Rs.1,07,63,950/-† was collected as membership fee. A total of 877 patients (new & old) availed treatment worth Rs.1,10,49,403/-†. Ten 'Cancer Care for Life' campaigns were organized in different parts of the State with the support of NGO's, Local Self Government and voluntary organizations.

† - Unaudited figure.

2. Free Food ('Akshayathram')

Free food was provided to 1,778 patients belonging to low socio-economic status during the report year. This was possible due to funds donated by many philanthropic organisations.

3. Free Drug Bank

The Free Drug Bank functions according to specific guide lines and is monitored by a committee constituted by the Director, RCC. Donations are collected in the form of cash or medicines from various organizations, pharmaceutical firms, etc. The drug bank provided full/partial help to 6203 patients during the reporting period.

4. Support for Paediatric patients

Special schemes are available for children suffering from cancer. Under the 'Kingingicheppu' scheme, free food and treatment was provided to poor paediatric patients through voluntary contributions. Prathyasa', a voluntary group working in collaboration with Paediatric Oncology division gave financial and psychosocial support to children and their families. The Paediatric Oncology division's 'Home Away from Home' initiative provided home stays, formal and informal tuition classes, recreational activities, and so on for registered patients with support groups such as Prathyasa and Delhi-based NGO CanKids.

Major Contributors to RCC's patient welfare schemes are:

Asraya
Navoothan Charitable Foundation
Tata Global Beverages Ltd
Ananthapuri Educational Society
Students of College of Fine Arts
Krishnakumaran Thampy Smaraka Trust
A.J. College of Pharmacy
Women's College Staff Association, Thiruvananthapuram
Care Plus
Chinmaya Yuva Kendra
Technopark Employees
Kalyanmayi Women's Organization
Balakrishna Chit Fund
Santhwanam Charitable Foundation
Attukal Temple Trust
Infosys
College of Engineering, Thiruvananthapuram

5. Indian Cancer Society Support Scheme

RCC was selected as one of the five cancer centres across India for receiving financial support from the Indian Cancer Society for treatment of cancer. During the report year 36 patients received support worth Rs 22,85,294/-.

Officers-in-charge

Dr Latha P.T. : Patient Welfare Officer
Surendran Nair V. : Public Relations Officer
Chandrika D : Medical Records Officer
Sreekumar B. : Clerk Gr.I

DIVISIONS

RADIATION ONCOLOGY

Jayaprakash P.G.

Professor & Head

Professor: Parameswaran S., Ramadas K, Ratheesan K

Additional Professors: Jayaprakash Madhavan (on leave),
Francis V. James, Beela Sarah Mathew

Associate Professors: Thomas Koilparambil, Aswin Kumar,
Sivanandan C.D, Rejnish Kumar R.

Assistant Professors: Susan Mathews, Asha Arjunan,
Sajeed A., Kainickal C.T.

Lecturers: Arun Sankar S, Lakshmi Balakrishnan, Roshni S, Naveen B.





The Division is responsible for primary care of majority of solid tumours through the four major site-specific clinics, Head & Neck, Breast & Central Nervous System, Chest & Gastrointestinal and Gynaec, Genito-urinary & others. The division handled 10,542 new cases and 1,16,122 review cases during the reporting period. There was an 8% increase in the number of new cases.

Major Achievements

- Rapid Arc technology was introduced.
- Innovative radiotherapy techniques like Respiratory Gating, Stereotactic Radiotherapy (SRT), Radio Surgery (SRS) and Image Guided Brachytherapy for cervix cancer were started.

Table 1: Specialised Radiotherapy Services

Service	No.
Conformal	843
IGRT/IMRT	182
Stereotactic Radiosurgery	16
Image guided brachytherapy	25

Clinical Services

External radiotherapy treatments were executed in 7024 cases (Radical: 4555 & Palliative: 2469) and 1448 brachytherapy techniques were carried out.

Table 2: Ongoing Doctoral Research Programmes

Research Scholar	Title of Study/University	Guide
Dr. K. Ramadas	Molecular epidemiology and treatment outcome of oral cancer/University of Kerala.	Prof. M. Krishnan Nair
Dr. Aswin Kumar	Quality of life of cervical cancer patients undergoing radical radiotherapy/ University of Tampere, Finland.	Prof. Ansi Auvinen

SURGICAL ONCOLOGY

Paul Sebastian

Professor and Director

Professor & Head: Iqbal Ahamed M

Additional Professors: Jem Prabhakar, Shaji Thomas,
Bipin T.Varghese, Paul Augustine, Chandramohan K.

Associate Professors: Elizabeth Mathew Iype, Balagopal P.

Assistant Professors: Rema P, Kurian Cherian,
Madhu Muralee, Arun Peter Mathew, Suchetha S.

The Division is responsible for all aspects of surgical care of patients attending RCC. The total number of patients who underwent major surgeries in the period under report was 3612.





Surgical & Endoscopic Procedures

5,015 surgical procedures and 2,501 endoscopic procedures were done during the period under report.

Major Achievements

- Complex salvage resections for head & neck cancers and more of microvascular reconstructions.
- Laser surgeries using advanced LUMINIS system for early oral and laryngeal cancers.
- Commissioning of new generation LEICA microscope with teaching aids for micro laryngeal surgeries.
- Enhancement of minimal access surgeries with implementation of HD video equipment and increased numbers of laparoscopic esophageal, colorectal and gynecological cancer surgeries.
- Increased number of complex cytoreductive surgeries involving multi organ resections for ovarian cancers.
- Introduction of video hysteroscope and new generation video coloscopes with teaching aid facilities and image archiving facilities.
- More numbers of limb salvage surgeries for bone sarcomas.
- Sentinel node biopsy for early breast cancers.
- Commissioning of LED operation theatre lights for better ergonomics and efficient energy utilization.
- Implementation of speech & swallowing rehabilitation programme.
- Implementation of innovative patient pathways for more efficient utilization of resources and to reduce the costs of treatment to the patient.
- Implementation of safe surgery protocols to reduce the morbidity and avoid surgical errors.

Table 3: Major Surgeries	
Sites	No. of patients
Head & Neck	1331
Oral cancer	618
Laryngopharyngeal	73
Sinonasal	45
Thyroid	260
Salivary gland	38
Broviac	113
Miscellaneous	184
Breast	1128
Gynaecologic	349
Gastro Intestinal	403
Genito-urinary	60
Bone & Soft tissue	155
Miscellaneous	186
Total	3612

Table 4: Minor Procedures	
Procedure	Number
Minor cases	1358
LEEP	45
Total	1403

Table 5: Endoscopic Procedures	
Procedure	Number
Nasopharyngolaryngoscopy	641
Nasal & DL scopy	294
Bronchoscopy	109
Oesophagoduodenoscopy	893
Oesophageal dilatation	23
Colonoscopy	528
Hysteroscopy	13
Total	2501

Academic Activities

- MCh programme in Surgical Oncology was started under Kerala University of Health Sciences, with an annual intake of 4 students.
- 3 year DNB programme in Surgical Oncology under the National Board of Examinations, New Delhi, with an intake of 2 students per year is going on.
- 2 year fellowships in Head and Neck Oncology (one student per year) and Gynaecologic Oncology (one student every alternate years).
- DNB in Surgical Oncology was awarded to Dr. Nebu A. George and Dr. Hemanth L.
- Organised 'South Zone CME of Indian Association of Surgical Oncology: Excellence in Cancer Surgery through Innovations', 9-10 April, 2011 at Thiruvananthapuram.
- Organised 'India-Singapore International Conference on Breast Cancer', 22-23 July 2011 at Thiruvananthapuram.

Table 6: Doctoral Programmes pursued by staff		
Research Scholar	Title of Study/University	Guide
Dr. Bipin T.Varghese	Development of a strategy for comprehensive post laryngectomy rehabilitation: a Kerala perspective / University of Kerala	Dr. B. Rajan
Dr. Elizabeth Mathew lype	Selected molecular markers as indicators of clinical profile, tumor characteristics, and treatment outcome in squamous cell carcinoma of the larynx/ University of Kerala	Dr. B. Rajan

MEDICAL ONCOLOGY

Geetha N.

Professor & Head

Additional Professors: Sreejith G. Nair, Prakash N.P. (on leave)

Assistant Professor: Shruti Prem

Lecturers: Anoop V.M.

Resident Medical Officer: Lali V.S.

Medical Oncology division is responsible for the diagnosis and management of haematological and lymphoreticular malignancies, sarcomas and other solid tumours where intensive chemotherapy is indicated. 2037 new cases were treated during the reporting period. The number of

outpatient attendance was 29478, of which 75% underwent chemotherapy. 2600 patients were administered high profile chemotherapy. 200 new patients with chronic myeloid leukaemia were enrolled in the Novartis Patient Assistance (NOVA) programme and were given imatinib free of cost.





Major Achievement

Started 'DM Medical Oncology' programme with an annual intake of 2 students.

BMT Unit

Autologous bone marrow transplantation: 17 patients
Allogenic bone marrow transplantation: 9 patients

Academic Activities

Post-graduate students in medical oncology, general medicine, transfusion medicine and radiation oncology were given training in medical oncology. Staff nurses were given training in patient care.

PAEDIATRIC ONCOLOGY

Kusumakumary P.
Professor & Head

Additional Professor: Priya Kumari T.
Assistant Professor: Anu Ninan

The Division handles childhood malignancies up to the age of 14 years. 617 new cases and 23,978 review cases were seen during the report period. Among the new cases reported, acute lymphoblastic leukaemia and brain tumour were the most common malignancies. A total of 1,485 children got

admitted to the paediatric ward during the period. The regular running of the clinic is supported by the Indian Paediatric Oncology Initiative (IPOI) of Jiv Daya Foundation. The IPOI team is comprised of three staff nurses, two data entry operators, one social worker and one pharmacist.





Academic Activities

Provided regular training to postgraduate radiotherapy students from the Centre and other Medical Colleges in Kerala as well as to the Paediatrics students from Sree Avitom Tirunal Hospital, Thiruvananthapuram, Kerala Institute of Medical Sciences, Thiruvananthapuram and CSI Medical College, Karakkonam.

Cultural Activities and Visits

Various cultural activities were organized for children and their parents during festivals like Onam, Christmas, New Year, Vishu, Deepavali and Children's Day. Eminent figures like His Highness Uthradam Thirunal Marthanda Varma, Dr. Shashi Tharoor, M.P., Shri. K.B. Ganeshkumar, Hon'ble Minister for Forest & Environment and Sports, Mayor K.Chandrika, film actors Mr. Jagadeesh, Mr. Mukesh, Mr. Kalabhavan Mani, Mrs. Praveena, playback singers Mr. M.G. Sreekumar and Mr. G.Venugopal visited the Division. Regular classes on clay modelling, drawing, tailoring and flower making and cultural programmes were organized for the children by the G. Venugopal Orkut community 'Sasneham'.

Table 7: Patient Statistics

Cases	No	%
Leukaemia	245	39.7
Lymphoma	34	5.5
Brain tumour	86	14
Retinoblastoma	11	1.8
Hepatic tumour	10	1.6
Kidney tumour	21	3.4
Rhabdomyosarcoma	15	2.4
Neuroblastoma	38	6.2
Bone tumour	27	4.4
Soft tissue sarcoma	5	0.8
Germ cell tumour	20	3.3
Others	105	17
Total number of new cases	617	100

Table 8: Ongoing Doctoral Research Programme

Research Scholar	Title of Study/University	Guide
Dr. Priyakumari T.	Molecular Genetics of Pediatric Acute Lymphoblastic Leukemia/University of Kerala	Dr. M. Radhakrishna Pillai and Dr. K.E. Elizabeth

PATHOLOGY

Jayasree K.

Professor & Head

Additional Professors: Rekha A. Nair, Anitha Mathews, Thara Somanathan, Nileena Nayak

Associate Professors: Preethi T.R., Raveendran Pillai K.

Assistant Professor: Sujathan K.

Lecturers: Anila K.R., Renu S., Priya Mary Jacob

Resident Medical Officer: Sindhu Nair P.

The division provided diagnostic services such as Surgical Pathology, Cytopathology and Haematopathology along with some advanced tests such as Immunohistochemistry, FISH, Flow cytometry, Frozen section diagnosis and Molecular tests. Second opinion was provided for tissue samples referred from all over Kerala and neighbouring states. The division was also

engaged in community oriented cancer control programmes including screening and early detection of cancers, Pap smear testing (Exfoliative cytology), sputum cytology and FNAC for screening of cancers of lung, breast, oral cavity and other sites. Automated 'monolayer preparation' was performed for cervical cytology smears.





Diagnostic Services

Table 9: Total work load at a glance (No. of Reports)

Surgical pathology	Cytopathology	Haematopathology	Total
14,435	22,410	6,828	43,763

Table 10: Special/Advanced tests (No. of Reports)

Immunohistochemical staining (Surgical pathology + Cytopathology + Haematopathology)	Frozen section	FISH	Flow cytometry	Total
15,897	582	17	490	16,982

Table 11: Surgical Pathology tests (No. of Reports)

Specimens from RCC	Specimens for Review	Specimens for Second Opinion	Total
9,000	4,805	630	14,435

Table 12: Cytopathology tests (No. of Reports)

FNAC	Cervical smear	Sputum	Total
8,530	12,629	1,251	22,410

Table 13: Haematopathology tests (No. of Reports)

Bone marrow	Blood smear	Slide review	Total
3,388	3,245	195	6,828

Flow cytometry: Immunophenotyping was done for 419 leukemia cases and stem cell assay was done for 71 cases using FACS Calibur machine (4 Colour).

Academic Activities

- Academic programmes such as DNB Pathology, Post Doctoral Certificate in Oncopathology, Advanced Training Course in Histotechnology for Laboratory Technicians, Quality Excellence Programme for Technicians, Cytotechnology and Cytotechnician courses.
- Short term training for DNB students in Radiation Oncology, Surgical Oncology and Medical Oncology from the Centre, MD Radiotherapy and MD Pathology students from various Medical Colleges, MDS Pathology students from Dental Colleges, M.Sc.(MLT), B.Sc.(MLT) students and Histotechnology/Immunohistochemistry trainees.
- As part of Trivandrum Pathology club, various teaching programmes and slide seminars were also conducted.

Table 14: Ongoing Doctoral Research Programmes

Sl. No.	Research Scholar	Title of Study/University	Guide
1.	Lallu S.	Study of the significance of DNA replication licensing proteins as makers of cervical intra epithelial lesions/M.S University	Dr. Sujathan K.
2.	Sharone C. Pereira	Identification of biomarkers for the differential diagnosis of thyroid malignancies in FNACs /M.S.University	Dr. Sujathan K.
3.	Veena V.S.	Identification of biomarkers for lung cancer / Bharathiar University	Dr. Sujathan K.
4.	Nimi G.K.	Study of Galectin-3 in breast cancer tissues/M.S. University	Dr. Sujathan K.
5.	Saritha V.N.	Proteome analysis in squamous cell carcinoma and its precursor lesions of cervix/M.S. University	Dr. Sujathan K.
6.	Rajesh S.V.	Significance of Immunohistochemical markers in the differential diagnosis of thyroid malignancies/M.S. University	Dr. Sujathan K.

IMAGEOLOGY

Ramachandran K.
Professor & Head

Associate Professor: Venugopal M.

Assistant Professors: Jiji V., Sumod Mathew Koshy





Major Achievements

- Installation of the Picture Archiving & Communication System acquired during the reporting period is nearing completion.
- The full field digital mammography and prone table breast biopsy system installed during the previous period has become fully functional during the period under report. Both these have contributed greatly in improving the diagnostic accuracy and 4579 digital investigations were performed during the period under report.
- Steps are on for starting MCI recognized course in 'MD Radiodiagnosis' under the Kerala University of Health & Allied Sciences.

Academic Activities

Two candidates joined for DNB course and Advanced Training in Diagnostic Imaging programme is also continuing. Teaching and training sessions were in full swing. The division collaborated with Trivandrum Radiology Club, Pulmonary Radiology in SUT Hospital, Trivandrum Oncology Club etc. in addition to the various interdisciplinary clinics and tumour boards.

Table 15: Diagnostic & Interventional Studies

Investigations	No.
Plain X-Rays	25,117
Barium studies	189
Ultrasound scans	9,284
USS guided intervention	550
Ultrasound guided prostatic biopsy	33
Doppler studies	156
Digital Mammography	4,539
Stereotactic Breast Biopsy	40
CT scans	15,619
CT guided aspiration	3,50
MRI scans	1,728

NUCLEAR MEDICINE

Pradeep V.M.

Professor & Head

Additional Professor: Sreekumar A.

Nuclear Medicine refers to the use of open radioactive sources in the diagnosis and treatment of diseases.





Nuclear Medicine division provides therapeutic and diagnostic services involving open radioactive sources. This is the only functioning Nuclear Medicine unit in government sector in the state. The Division has facilities for imaging (dual head SPECT Gamma camera) as well as for therapy (thyrotoxicosis and high dose therapy for thyroid cancer). 1,101 new cases and 11,078 review cases were seen during the report period.

Table 16: Diagnostic & Clinical services

Service	No.
SPECT Gamma camera imaging	6,945
Radio immunoassays	22,712
Ultrasound scan (Thyroid)	291
Thyroid cancer therapy	499
Thyrotoxicosis therapy	346



ANAESTHESIOLOGY

Rachel Cherian Koshy
Professor & Head

Additional Professor: Mary Thomas

Associate Professors: Venugopal A., Mallika Balakrishnan

Assistant Professors: Sudha P., Viji Pillai

Lecturers: Bhagyalekshmi R., Rajasree O., Deepthi J. Prabhu,
Subha R

The Division provided anaesthetic services for oncosurgeries of long duration including high risk cases of malignancies presenting with complications of chemotherapy and/or radiotherapy and other co-morbidities. Round the clock intensive care and ventilatory management was also provided in the post-operative ICU whenever indicated. Provision of day care anaesthesia and remote anaesthesia for paediatric

patients for radiotherapy, imaging and CT guided invasive diagnostic procedures and central venous access were also part of the services. Long and short term central venous access for bone marrow transplant patients/donors was done regularly. The division took the leadership for in-house training of personnel in executing code blue procedures efficiently.





Major Achievements

- Acquired five anaesthesia workstations including one MRI compatible workstation, MRI compatible infusion pump and multiparameter monitor.
- Five syringe pumps including one patient controlled analgesia pump and one Evita XL ICU ventilator.
- Slave monitors have been fitted in four operation rooms and scavenging system for anaesthetic waste gases has been installed in three operation rooms.

Academic Activities

- An in-house training for ICU nurses – 'ICU Connect' (30th April 2011).
- In-house educational programme on 'Catheter related blood stream infection' for Operation Theatre personnel (25th June 2011).
- In-house Basic Life Support training was provided for nurses, nursing assistants, technicians and others. In the second phase, hands on workshop for 'Basic and Advanced Life Support' was organized on a fortnightly basis for nurses and doctors.

- Grand Rounds in Anaesthesiology: Guest lectures, difficult case discussions, policy matters and protocol formulations were included in the Grand Rounds.
- Regular seminars, journal clubs, case discussions and monthly tests as part of Post-graduate education programme.

Table 17: Anaesthetic Techniques

Techniques	No.
Total Intravenous Anaesthesia	289
GA+Epidural	256
Combined spinal + epidural	709
Subarachnoid Block	265
Laryngeal Mask Airway	66
Plexus & other blocks	1066
Anticipated difficult airway	5
Blind Nasal intubation	99
Fiberoptic intubation	12
Retrograde intubation	2

RADIATION PHYSICS

Raghu Ram K. Nair

Professor & Head

Associate Professors: Thayal Singh Elias, Raghu Kumar P., Saju B.

Assistant Professors: Zhenia Gopalakrishnan, Divya K.T.,
Giri Purushothaman

Lecturers: Debjani Phani, Shaiju V.S., Sharika V. Menon

Activities of the division include calibration and quality assurance of radiotherapy equipments, treatment planning and dose computation, radiation safety in Radiotherapy, Imageology and Nuclear Medicine divisions, Participation in intercomparison and external verification of dose output of

treatment machines using TLD in BARC/IAEA programmes, daily maintenance, checking and repair of all teletherapy and brachytherapy equipments, intraoperative, intraluminal and mould brachytherapy using Microselectron HDR.





Academic Activities

- The three months refresher program in Imageology/ Nuclear Medicine and Radiotherapy for radiographers started in 1994 has covered 38 trainees in Radiotherapy till March 2012.
- Classes in Medical Physics and practical training to students of DMRT/MD/DNB (Radiotherapy), MD/DMRD/ DNB (Radiodiagnosis), MBBS, DRT, B.Sc. Radiological Technology, B.Sc. & M.Sc. Nursing and Master of Hospital Administration.

Table 18: Patient Services

Treatment given	Total No. of Patients
External Beam Radiotherapy	6799
Brachytherapy (Microselectron HDR)	
Gynaec	1429
Oesophagus	36
Others	37
Total	8301
Simulator	4533
Mould Room	
Orfit Shell	1680
Bite Block	578
Wax Bolus	430
Electron Cut-outs, Head rest, Leg rest, face rest, mould etc.	902
Total	3617

Table 19: Ongoing Doctoral Programmes

Sl. No.	Research Scholar	Title of Study/University	Guide
1	K.A. Davis	Development of a Quality Assurance protocol, dose measurement and radiation safety evaluation in CT Scanners/ Mahatma Gandhi University	Dr. Raghu Ram K. Nair
2	Dr. Sajeed A.	Modification of Radiotherapy by physical parameters/Kerala University	Dr. Raghu Ram K. Nair

CLINICAL LABORATORY SERVICES

Thomas Abraham
Scientific Officer Gr.I & Head





The activities of the division include specimen collection, processing, analysis and reporting of various tests for both outpatients and inpatients. On an average a patient made use of the services of the laboratory about 11 times. The laboratory processed and analysed 2,45,562 samples consisting of 1,60,108 haematology samples, 95,083 biochemistry samples and 6,722 urine samples.

The Division comprises Clinical chemistry and Haematology laboratories and provides Phlebotomy services.

Clinical Chemistry

Clinical chemistry lab processed, analysed and reported about 5,87,409 tests in the reporting period. The Lab carried out special investigations like Free Kappa and Free Lambda, HbA1c and direct LDL. Bidirectional interfacing for automated high through-put clinical chemistry analyser has improved quality as well as turnaround time.

Haematology

One Beckman Coulter LH 780 fully automated 5-part haematology analyser was installed during the report period.

Phlebotomy

The phlebotomy services mainly meant for outpatients of the Centre. The services include blood collection and provision of containers for urine. The lab carried out 1.5 lakh collection related procedures during the period. It also provided instructions for specimen collection like 24-hour urine collection for creatinine clearance. Introduction of bar-coding facility has improved the efficiency of the lab with an improvement in the average turnaround time.

Quality Assurance

The department has been a participant in the External Quality Assurance Services Bio-Rad Laboratories, USA for haematology and clinical chemistry proficiency testing programme. Daily quality control analysis was also performed.

Table 20: Investigations done

Investigation	No.
Biochemistry	5,87,409
Haematology	1,83,855
Coagulation Parametres	7,865
Urinalysis	6,768
Special Investigations	
CSF (Sugar & Protein)	238
HbA1C	56
Cyclosporin	147
Serum Immunoglobulin assay (IgG, IgA & IgM)	1214
Free Kappa	1009
Free Lambda	1009
Serum Electrophoresis	925

Table 21: Visiting Trainees

Training provided	No. trained
M.Sc. Biochemistry students	4
M.Sc. MLT students	2
B.Tech. Biotechnology students	8

MICROBIOLOGY

Swapna R. Nath

Assistant Professor & Head

The Division continued to maintain high accuracy with respect to diagnostic services in microbiology. It started providing round the clock services from 16th March 2012. BacT/Alert (automated blood and body fluid culture system) and VITEK (automated identification and sensitivity system) installed during the previous reporting period considerably reduced

the turnaround time. The rate of recovery of significant isolates especially from CSF has also improved following the use of automated culture system. The division is also actively involved in the infection control activities of the hospital. Provided training on infection control to staff nurses and students of Post Basic Diploma in Oncology Nursing.





Table 22: Investigations done

Culture, Sensitivity & Other tests	Number
Blood	3100
Exudate	810
Urine	737
Throat swab	564
Sputum	440
Aspirate	188
Faeces	97
Surveillance culture	72
Cerebrospinal fluid	60
Acid-fast bacteria	25
Fungus	17
Microscopy (Gram stain, AFB stain, KOH mount etc.)	270
Widal test	7
Total	6387

Table 23: Visiting Trainees

Three months project training for M.Sc. Microbiology students
 Six months training for B.Sc. Medical Microbiology students

TRANSFUSION MEDICINE

Vijayalakshmi K.

Assistant Professor & Head

Resident Medical Officers: Jayalekshmi P, Rajesh R. Chandran

The division, one among the three major blood transfusion centres in the Medical College Campus, is recognized as a Regional Blood Transfusion Centre with cent percent component separation and blood irradiation facility. The division works in co-operation with other divisions of the centre to extend optimum services to the patients by way of irradiated blood products and pheresed platelets. National AIDS Control Society (NACO) also extends support through providing machinery and staff.





New Machines Acquired

- Automatic Component Extractor T-ACE, for preparation of leucoreduced products.
- Automated Haematology Analyser
- Deep Freezer

938 blood irradiations and 42 apheresis were performed. 21,629 persons donated blood under the voluntary blood donation programmes. Division also organized 14 blood collection camps.



Academic Activities

Organised a CME on 'Recent Trends in Transfusion Medicine' under the auspices of Indian Society of Blood Transfusion & Immunohaematology (ISBTI) on 24 July 2011.

Table 24: Blood components separated

Components	PRC	PRP	FFP	PC
No. Separated	21551	16382	3846	5169

Table 25: Transfusion transmissible diseases detected

HbsAg	HCV	HIV	VDRL	Malaria
69	5	5	NIL	1

Table 26: Visiting Trainees

B.Sc. (MLT), DMLT Students and post graduate students of Pathology

Three month project work for M.Sc. (MLT) students

PALLIATIVE MEDICINE

Cherian M. Koshy
Additional Professor & Head

Resident Medical Officers: Prasanth C.V., Manju Achamma Varghese





The National Rural Health Mission has declared the division as its centre for imparting hands on training to nurses and doctors they depute. Division collaborated with three NGOs 'Care Plus', Ashraya' and 'Jiv Daya' in care of the terminally ill. 'Care plus' took care to the door step of cancer patients within the district of Thiruvananthapuram. The 'Jiv Daya' foundation based in Dallas Texas, sponsored one doctor, one social worker and nurses.

Dr. Shashi Tharoor, MP visited the division and distributed certificates to candidates of 'Certificate Course in Essentials of Palliative Care' on 14th September 2011. World Palliative Care Day was celebrated on 8th October 2011 and noted literary personality Dr. George Onakkoor was the chief guest. A continuing education programme on soft skills was held on the same day. The division started a novel venture 'Voice in the midst of Noise' wherein our social worker calls patients and families on a regular basis and enquires about their well being. The weekly 'Tele Clinic' between the division and the Hospice at Adimali, Idukki district, Kerala has caught the attention beyond the country.

Table 27: Clinical services

Cases	No.
New	4,221
Review	10,652
Tele-clinic consultations	300
Total	15173

Academic Activities

Doctors, Nurses and MSW students were posted regularly. Around 25 students successfully completed the Certificate course in Essentials of Palliative Care. Nurses were deputed for hands-on training in Palliative Care.

DENTAL CARE

Nalina Kumari K.R.
Associate Professor & Head



This division provided a variety of treatment modalities for the oral health and radiation protection of teeth of cancer patients. These included procedures like oral biopsies, oral prophylaxis, conservative therapy, dental extractions, occlusal adjustments, therapeutic management of pre-cancerous oral lesions, pre and post-radiation care of teeth, pre-surgical care, and reconstructive procedures like construction of maxillofacial prosthesis, management of ulcers, spontaneous bleeding, toothache and management of oral problems and advice of patients before undergoing BMT/stem cell therapy.

Clinical Services

Table 28: Clinical services

Cases	No.
Total attendance	4824
New cases	1742
Post radiation care	3326
Permanent filling	10
Temporary filling	9
Maxillofacial Prosthesis	5
Patients underwent dental extractions	7
Total teeth extracted	20
Biopsy	3
Management of osteoradionecrosis	8
Management of precancerous lesions	7
Management of post chemotherapy problems	9
BMT/Stem cell therapy consultation	18

NURSING SERVICES

Sreelekha R.

Chief Nursing Officer

Nursing Superintendent: Flower Augustine

The Division provides individualized and holistic nursing care to patients and their families in line with the Mission and Vision of RCC. The Division equipped with highly competent workforce offers abundant opportunities for professional growth and development of all nursing personnel. Housekeeping and linen and laundry services are also under

the purview of the division. As per the training calendar prepared for in-service education, 8 sessions were conducted for staff nurses, 8 sessions for nursing assistants and 7 sessions for housekeeping staff. Induction training was given to newly joined staff.





Major Achievement

Started one year course on 'Post Basic Diploma in Oncology Nursing' recognized by Indian Nursing Council and Kerala Nurses and Midwives Council with an annual intake of 20 students.

Specialty Clinics

Central Venous Access Device (CVAD) Clinic

Services include insertion of Peripherally Inserted Central Catheter (PICC) and follow up of patients with PICC and ports. 640 patients were inserted with PICC.

Lymphoedema Clinic

Services include follow up of post mastectomy patients, early detection of lymphoedema and management of lymphoedema. Among 1393 new patients registered in the clinic, lymphoedema management was done for 98 patients.

Stoma Clinic

Services include counseling, marking the stoma site, educating care of stoma and change of appliances. 1228 patients attended the clinic.

Academic Activities

- Organized a state level conference on 'Quality Cancer Care: Newer perspective' on 10th December 2011, which was attended by 360 delegates.
- Organized Infection Control Week from 20 – 22 October 2011, incorporating educational sessions for nurses, nursing assistants and housekeeping staff. A quiz competition was also arranged.
- Offered observation posting/clinical experience to 206 M.Sc. Nursing students and 1360 B.Sc. Nursing students from various government and private colleges.

CLINICAL SERVICES & MEDICAL RECORDS

Raveendran Nair R.

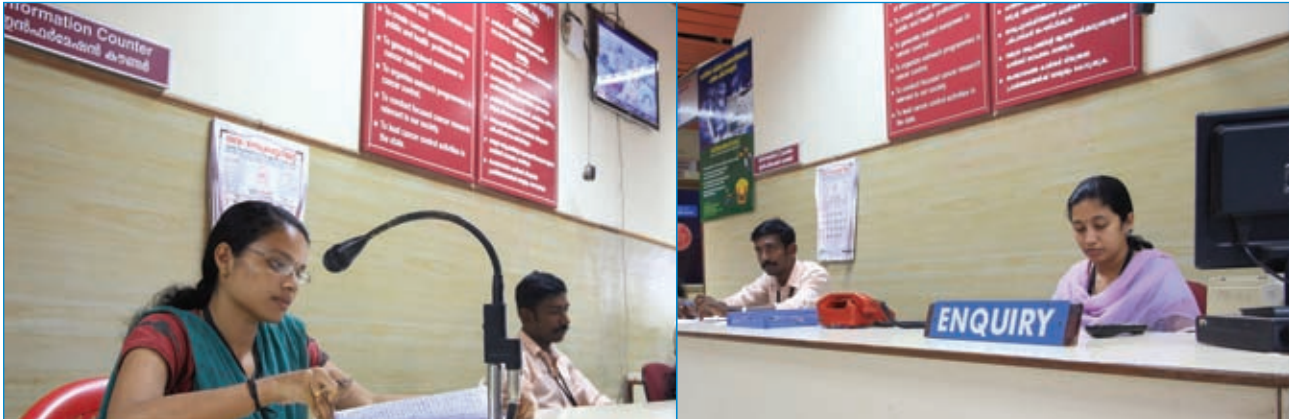
Administrative Officer (Clinical Services)

Medical Records Officer: Chandrika D.

Assistant Professor: Latha P.T

This division has been entrusted with the management of patient related services such as registration of new cases by categorizing patients by economic status, multidisciplinary clinics, medical records, patient accounts and billing, Cancer Care for Life scheme, vehicles and various patient welfare services.





Total Patient Flow

Table 29: Hospital statistics

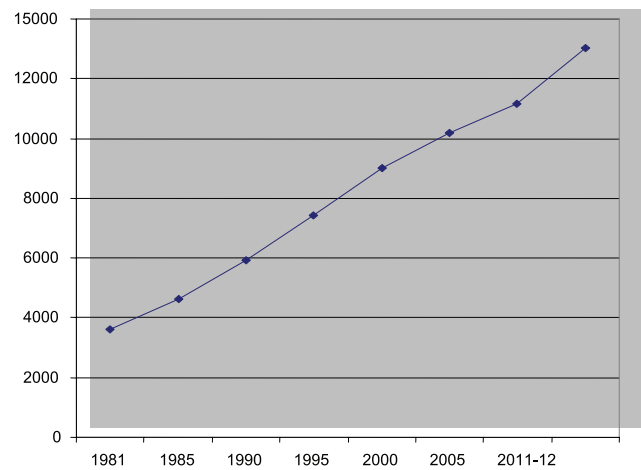
Item	No.
New cases	14282
Review cases*	178523
Total patients (New + Review)	192805
Daily average	643
Average attendance per patient	13
In-Patient admissions	11072
In-Patient bed**	275
Average bed occupancy	227
Bed occupancy rate***	84
Average length of stay (days)	7.5
Hospital death	668
Telemedicine consultation	1538

* Follow up at peripheral centres, tele-clinics, palliative care, clinic to clinic consultation, review during treatment etc. are not included.

** Day care chemo wards, chemo cubicles and other admissions not meant for overnight stay are not included.

*** Excluded Nuclear Medicine beds

Fig. 2: New registration (1981 to 2011-12)



Patient Statistics

Patients are broadly grouped into the following 3 categories according to their socio-economic status and payment capacities.

F – Not affordable to pay but a little (Radiation totally free)

M – Minimum Payment

O – Normal Rate

Patients were further re-distributed after their category change and inclusion in various welfare schemes

Table 30: Patient categories based on socio-economic status (At the time of registration)

Category	No.	%
F	5343	37.41
M	4357	30.51
O	4582	32.08
Total	14282	100

Table 31: Re-distribution of patients under different categories and welfare schemes

Category	No	%
F	3437	24.08
M	4357	30.49
O	3096	21.67
P	187	1.31
R	1299	9.09
S	507	3.58
C	953	6.66
N	446	3.12
Total	14282	100

F - Affordable to pay a little

M - Minimum Payment

O - Normal Rate

P - Private

R - Reimbursable

S - Cancer Suraksha Scheme

C - Comprehensive Health Insurance Scheme (CHIS +)

N - Rashtriya Arogya Nidhi (RAN) Scheme

Table 32: New cases (Speciality clinic wise)

Clinic	No.	%
A	2037	14
B	2418	17
C	2402	17
D	2422	17
E	3285	23
F	617	4
G	1101	8
Total	14282	100

A - Haemato-lympho reticular system, bone and soft tissue sarcoma

B - Head & Neck

C - Breast & Central Nervous System

D - Gynaec, Genito-urinary & others

E - Chest & Gastro- intestinal

F - Paediatric (Patients upto the age of 14 years)

G - Thyroid

Table 33: New & Review cases (Speciality clinic wise)

Clinic	New	Review*	Total
A	2037	29478	31509
B	2418	25747	28169
C	2402	37637	40042
D	2422	25056	27484
E	3285	25549	28830
F	617	23978	24595
G	1101	11078	12181
Total	14282	178523	192805

Table 34: New cases (Age & Sex wise)

Age Group	Male	%	Female	%	Total	%
0 -14	354	5.08	299	4.09	653	5
15-24	241	3.47	312	4.26	553	4
25-34	361	5.19	616	8.42	977	7
35-44	650	9.33	1273	17.39	1923	13
45-54	1320	18.97	1801	24.60	3121	22
55-64	2043	29.35	1677	22.89	3720	26
65-74	1432	20.57	977	13.35	2409	17
75+	560	8.04	366	5.00	926	6
Total	6961		7321		14282	100

Religion	Male	%	Female	%	Total	%
Hindu	4167	60	4553	63	8720	61
Muslim	1534	22	1422	19	2956	21
Christian	1260	18	1346	18	2606	18
Total	6961	100	7321	100	14282	100

Clinic	A	B	C	D	E	F	G	Total	%
Male	1237	1729	281	766	2385	332	231	6961	49
Female	800	689	2121	1656	900	285	870	7321	51
Total	2037	2418	2402	2422	3285	617	1101	14282	100

Referral System

RCC is a tertiary level referral hospital and patients were referred from teaching hospitals, private hospitals and eminent private doctors in and outside the State. RCC also provided care to internationally referred patients.

Referred from	No.	%
Teaching Hospitals (MCH)	3211	22.49
District/General Hospitals	730	5.12
Other Govt. hospitals	873	6.11
VSSC/ECHS/ESI/CGHS/ Railway hospitals	988	6.92
ECDC and peripheral centers	162	1.13
Other Cancer Centers	41	0.28
Private doctors	1126	7.88
Private hospitals	6958	48.71
Overseas	169	1.18
Self/RCC	24	0.17
Total	14282	100

Kerala	No.	%
Thiruvananthapuram	3133	21.95
Kollam	2396	16.77
Pathanamthitta	785	5.50
Alappuzha	775	5.42
Kottayam	442	3.09
Idukki	221	1.55
Ernakulam	546	3.82
Thrissur	713	4.99
Palakkad	814	5.70
Kozhikode	532	3.72
Malappuram	994	6.96
Wayanad	101	0.70
Kannur	468	3.28
Kasargod	189	1.32
Tamil Nadu, Karnataka, Lakshadweep, Arabian Countries, Maldives, etc.		
Tamil Nadu	1909	13.37
Karnataka	8	0.05
Lakshadweep	10	0.07
Arabian Countries	9	0.05
Maldives	160	1.12
Others	77	0.54
Total	14282	100

Visiting Trainees

In service training in medical records and patients service was given to Master of Applied Science & Medical Documentation and MA/MSW students from various universities.

COMMUNITY ONCOLOGY

Ramani S. Wesley
Professor & Head

Additional Professor: Gigi Thomas
Assistant Professor: Jayakrishnan R.

The major activities of this division are primarily aimed at human resource development and primary and secondary prevention of common cancers. These were achieved through conducting trainer-trainee programmes, cancer awareness/ education programmes, cancer detection camps and also through the functioning of the early cancer detection clinic at the division.



Cancer Control Activities

Human Resource Development

- Trainer-Trainee Programmes: Through 82 programmes, 5634 trainers were educated (Table 39).
- International School of Colposcopy: One week hands on training was given to 20 gynaecologists. One day orientation programme on VIA, VILI and Colposcopy was given to 225 B.Sc. (MLT) students.

Table 39: Details of Trainer-Trainee programmes

Categories of Trainees	No. of programmes	No. trained
Doctors (Allopathy)	9	249
Dentists/Dental Students	1	64
Nurses	1	3
Paramedicals (B.Sc. MLT)	25	225
Health supervisors and workers	7	447
Community/Tribal Volunteers	14	1353
Student representatives & teachers	9	951
Bank/Factory/ Technopark/VSSC	9	951
Lay public and NGO's	7	809
Total	82	5634

Early Cancer Detection

1. Screening for Oral, Breast and Cervical Cancers

The peripheral centres and nodal centres are referring patients with suspected cancers to the Early Cancer Detection Clinic functioning at the division for diagnosis, colposcopy, LEEP, cryotherapy, etc. Breast screening procedures such as training and breast self examination, clinical breast examination and mammography were done for 1924 women. Cancers and pre-cancers detected among 4032 persons screened are detailed below.

Table 40: Cancers and Pre-cancers detected

(No. screened: 4032)

Sites	Cancers detected	Precancers & benign lesions detected
Oral	63	465
Breast	78	----
Cervix	56	281
Others	145	----
Total	342	746

Table 41: Colposcopy clinic

Procedures done	No.
Colposcopy	1487
Colpodirected biopsy	198
LEEP therapy	44
Cryotherapy	6
Cold coagulation	7
Pap smear	1199

Table 42: Oral dysplasia clinic

(No. screened=736)

Cases detected	No.
Leukoplakia	268
Oral submucous fibrosis	197
Benign lesions	75
Total	540

2. Tobacco Cessation Clinic: Tobacco Cessation Clinic has launched the community based tobacco cessation programme in 4 Community Development Blocks of Thiruvananthapuram district. Out of the 270 tobacco habitués who attended the clinic, 38% were smokers, 43% were tobacco chewers and 19% had both the habits. They were given counselling and for persons with severe nicotine dependence, Nicotine Replacement Therapy was also given.

Leadership activities initiated for tobacco control

a. Tobacco Free Kerala Campaign: The Tobacco Free Kerala Campaign with Hon. Health Minister of Kerala as the Chairman and RCC Director as the Vice Chairman was launched under the auspices of RCC in December 2011. The other members of the coalition are Malabar Cancer Centre, Voice of Tobacco Victims, Kerala Voluntary Health Services and MD-Niche, the media sensitisation arm of the campaign. The campaign was initiated based on the report of growing incidence of tobacco use in Kerala.

b. Appeal for ban on sale of Gutka/panmasala: RCC, Thiruvananthapuram joined hands with 16 other Regional Cancer Centres in the country sought intervention of the Hon. Prime Minister of India to ban gutka and other tobacco products.

3. Cancer Outreach Programmes

Eighty cancer detection camps conducted in various parts of the State in which 6634 people underwent screening. Fiftyseven cancer awareness programmes were organised and 7326 persons were trained. Bi-weekly screening clinics for cervical cancer were conducted for women residing in Chirayinkeezh and Kazhakootam block panchayath areas.

Table 43: Cancers & Pre-cancers detected in cancer detection camps

No. of camps	80
No. screened	6634
Oral cancer	13
Breast cancer	15
Cervix cancer	1
Others	17
Oral pre-cancer	191
Cervical pre-cancer	115

Academic Activities

World No Tobacco Day (31 May 2011): RCC took the initiative to organize a meeting of oral cancer survivors with the Hon'ble Chief Minister, to share their experiences and highlighted the gravity of the tobacco menace. This paved the way to ban the sale of tobacco products within 400 metre radius of educational institutions in the State.

World Cancer Day (4 February 2012): A seminar was organised for media personnel and journalism students with the objective of enhancing their knowledge on the importance of cancer prevention and control, which was attended by 30 participants.

Table 44: Ongoing Doctoral Programmes pursued by staff

Sl. No.	Research Scholar	Title of the Study/University	Guide
1.	Dr. Gigi Thomas	Search for predictive genetic markers of high risk malignant transformation potential in oral leukoplakia patients/University of Kerala	Dr. Ravindran Ankathil
2.	Dr. Jayakrishnan R.	Effectiveness of community based tobacco cessation intervention in rural Kerala/ University of Tampere, Finland.	Dr. Antti Uutela (Finland), Dr. Aleyamma Mathew (RCC)

CANCER RESEARCH

Kannan S.

Professor & Head

Additional Professor: Remani P.

Assistant Professor: Hariharan S.

Scientific Officer Gr.I: Sreelekha T.T.

Cancer research in this division is focused on molecular mechanisms involved in the pathogenesis of cancer and also on development of plant based anticancer drugs. Efforts are on to translate these findings in diagnosis, prognosis and treatment of cancer. Currently, four different research groups of this division are concentrating on areas of cell cycle regulation, phytopharmacology, cytogenetics, molecular diagnostics and biopharmaceuticals.





Laboratory of cell cycle regulation is working on deciphering the molecular mechanisms of oral carcinogenesis and trying to translate the knowledge so gained for the development of diagnostic and prognostic molecular markers and therapeutic targets for oral carcinoma.

Laboratory of phytopharmacology has undertaken a study on evaluation of different biological properties of the active principles isolated from the whole plant *Solanum trilobatum*. It was found that the active principles isolated from the petroleum ether extract possess antioxidant, antimicrobial and antitumour properties.

Cytogenetics laboratory is mainly concentrating on leukaemia research, chromosomal abnormalities in various leukaemias and searching for predictive genetic markers to detect the risk group based prognostic stratification of haematological malignancies.

The mission of the laboratory of Biopharmaceuticals is to develop and discover plant based agents to target the most promising genes and gene products for translational development of drugs, anticancer agents, and nanoparticles. This research is setting the stage for the ability to rapidly and effectively translate genomics into advances in anti-cancer drug development.

New Equipment Acquired

Chemiluminescence-Fluorescence Imaging System : I

Table 45: Patient diagnostic services

Services	No.
Quantitative RT-PCR for bcr-abl	474
Qualitative RT-PCR for bcr-abl & pml-rara	362
Karyotype analysis	863
Fluorescent In Situ Hybridization	172

Academic Activities

Table 46: Ongoing Doctoral Research Programmes

Sl. No.	Research Scholar	Title of the Study/University	Guide
1.	Abitha Murali	Characterization of molecular alterations in the Retinoblastoma (Rb) gene in oral carcinoma/University of Kerala.	Dr. S. Kannan
2.	Deepak Roshan V. G.	Study on the identification of factor/s involved in over expression of Cyclin- D1 in oral carcinoma/University of Kerala.	Dr. S. Kannan
3.	Dileep Kumar U.	Studies on the biology of carcinoma of buccal mucosa and tongue/University of Kerala.	Dr. S. Kannan
4.	Christo Rajan	Study of the significance of miRNA expression pattern in oral carcinoma /University of Kerala.	Dr. S. Kannan

5.	Sivadas V.P.	Molecular dissection of TGFβ/ Smad pathway in oral carcinoma /University of Kerala.	Dr. S. Kannan
6.	Dhanya G. S.	Cytotoxic and immunological studies of two Solanaceae plants/University of Kerala.	Dr. P. Remani
7.	Biba V. S.	Antimicrobial, antitumour and immunomodulatory properties of two species of <i>Annona</i> (Annonaceae)/University of Kerala.	Dr. P. Remani
8.	Farha A. K.	Molecular mechanisms involved in the cell death induced by Deoxyelephantopin, a sesquiterpene lactone, from <i>Elephantopus scaber</i> ./University of Kerala.	Dr. P. Remani
9.	Praveen Kumar B. R.	Germline mutation analysis of mismatch repair genes in familial colorectal cancer patients /University of Kerala.	Dr. R. Ankathil
10.	Sangeetha Vijay	Molecular genetic basis of resistance to imatinib mesylate treatment in chronic myeloid leukaemia patients/ University of Kerala.	Dr. S. Hariharan
11.	Santhi S.	Prognostic significance of chromosomal aberrations and FLT3 gene mutation status in patients with acute myeloid leukaemia/ University of Kerala.	Dr. S. Hariharan
12.	Suresh Kumar V.	Detection of Nucleophosmin 1 gene mutations in AML patients and its impact on treatment/ University of Kerala.	Dr. S. Hariharan
13.	Aravind S.R.	Immunomodulatory and anticancerous properties of Tamarind seed polysaccharides/University of Kerala.	Dr.T.T. Sreelekha
14.	Manu M. Joseph	Studies on Tamarindus indica polysaccharide nanoparticle as immunomodulatory / anticancer agent and as a potent drug carrier/University of Kerala.	Dr.T.T. Sreelekha
15.	Sheeja Varghese	Studies on the molecular mechanisms of antitumour / immunomodulatory polysaccharide from <i>Mangifera indica</i> / University of Kerala.	Dr.T.T. Sreelekha
16.	Alphy Rose James	Evaluation of molecular basis of drug response in lung by gene profiling for targeted personalized medicine /University of Kerala.	Dr.T.T. Sreelekha

Table 47: Ongoing Post-doctoral Research Programme

Sl. No.	Research Scholar	Title of the Study/University	Guide
1.	Sreeja L.	Molecular and gene expression signatures in prognostically prioritized stratification in AML patients with NC/Indian Council of Medical Research.	Dr. Hariharan S.

Table 48: Visiting Trainees

Training provided for	No. trained
Dissertation work of MD/MDS students	1
Three months project work for M.Sc. Biotechnology/Life science students	34
Two weeks observation training for M.Sc./B.Tech. in Biotechnology/Life science areas	25
MLT students	181
MD/MS/DNB Students	17

MOLECULAR MEDICINE, DRUG DEVELOPMENT & CHEMOINFORMATICS

Lakshmi S.

Assistant Professor & Head





This division is working on research projects in molecular and cellular biology which is the fundamental basis to any advancement in the field of medical sciences. Research projects are ongoing on the role of estrogen receptor co-regulators in the development of breast cancer; the elucidation of cell signaling pathways in the development of breast cancer; gene environment interaction and susceptibility to breast cancer;

molecular genetics of paediatric acute lymphoblastic leukaemia in Kerala, molecular markers as indicators of clinical profile, tumor characteristics and treatment outcome in squamous cell carcinoma of the larynx and on the molecular mechanisms of multidrug resistance in ovarian cancer. The projects are supported by grants from DBT, DST, and KSCSTE. The data produced till date has been presented in national conferences by the research fellows.

Academic Activities

Table 49: Ongoing Doctoral Research Programmes

Sl. No.	Research Scholar	Title of Study/University	Guide
1.	Mr. Binu K.A.	Role of estrogen receptor coregulators in breast cancer/ University of Kerala	Dr. Lakshmi S.
2.	Ms. Prabha Pillai	Role of signal transducers and activators of transcription in breast carcinogenesis/ University of Kerala	Dr. Lakshmi S.
3.	Ms. Sreeja R.	Molecular analysis of multidrug resistance gene and its expression in ovarian cancer/ University of Kerala	Dr. Lakshmi S.
4	Lekshmi Thampi	Studies on the role of EGFR signaling and estrogen receptor activity in breast cancer/Kerala University	Dr. Lakshmi S.

Visiting Trainees

Training provided for	No. trained
Three months project work for M.Sc. Biotechnology/Life Science students	3
B.Sc. Biotechnology/Life Science students	9

CANCER EPIDEMIOLOGY & CLINICAL RESEARCH

Aleyamma Mathew

Additional Professor in Statistics and Epidemiology & Head

Assistant Professors in Biostatistics: Padmakumary Amma G.,
Preethi Sara George

Assistant Professor in Epidemiology: Kalavathy M.C.





Hospital Based Cancer Registry (HBCR)

HBCR of Regional Cancer Centre, Thiruvananthapuram has been functioning for 30 years under the network of National Cancer Registry Programme (NCRP) of Indian Council of Medical Research (ICMR), Govt. of India. HBCR report is published annually. The report provides the magnitude, patterns of cancer; stage at diagnosis and treatment modalities of patient seen at RCC. Among the total 14,282 registered cases during the period under reported, 12,597 (88.2%) cases are invasive cancers (Table 52).

Population Based Cancer Registry (PBCR), Thiruvananthapuram

PBCR, Thiruvananthapuram has been functioning under the network of NCRP of ICMR for the past 7 years. The average annual age-adjusted (AAR) incidence rates (per 105) is 134 in males and 129 in females respectively. Oral cavity (AAR: 14.7) and prostate (AAR: 8.7) are the first two leading cancer sites among males. Breast (AAR: 37.3) and Thyroid (AAR: 10.2), are the corresponding cancer sites among females (AAR per 105 females). (Table 53).

Cancer surveillance programmes

Patterns of care and survival in cancers of the uterine cervix,

breast and head and neck patients reporting to the RCC is ongoing in collaboration with NCRP. A total of 5163 female breast, 1630 cervix uteri and 8582 head & neck cancer cases are abstracted using a specifically designed 'Patient Information Form' and follow-up is updated regularly. These cases are patients reported to the RCC during 2006-2009.

Cancer epidemiologic studies

Epidemiologic studies for identifying life-style related risk factors for urinary bladder, kidney and female breast cancers are ongoing. Another epidemiologic study is to assess the HPV infection among women with atypical squamous cells.

Cancer screening programmes

Organized 69 Women cancer screening programmes in Primary Health Centres of Thiruvananthapuram district as part of the 'Cancer Vimuktha Sthree Samootham' project of Thiruvananthapuram Jilla Panchayath. (Table 50)

Regular twice weekly Pap smear screening programmes were conducted in Women & Children Hospital, Thycaudu and Govt. Hospital, Peroorkkada. 16 cervical precancers and 4 cervical cancers were detected from 1955 women screened.

Cancer awareness programmes

69 cancer awareness classes were delivered to lay public and

three awareness programmes were conducted for health workers in Thiruvananthapuram district.

Table 50: Cancers & Pre-cancers detected in camps

No. of camps	69
No. screened	9601
Pap smear collected	2609
Breast cancer	9
Cervical cancer	4
Cervical precancer	16
Oral cancer	4
Oral precancer	12

Academic Activities

- Published Hospital Based Cancer Registry Report for the year 2009 in October 2011
- Published Population-Based Cancer Registry Consolidated report (2005-2009), October 2011.

- Cancer Registry Meeting: organised as per NCRP recommendations, to improve cancer registration system in the district, on 30 November 2011. The meeting chaired by Shri. Rajeev Sadanandan, IAS, Principal Secretary, Health and Family Welfare Department, Government of Kerala, was attended by 44 delegates from different health care organizations of the district. A scientific session was led by Dr.A. Nandakumar, Director-in-charge, National Centre for Disease Informatics and Research, National Cancer Registry Programme (ICMR).
- Collaborated with HHMSPB NSS College for Women, Thiruvananthapuram for a two-day Workshop on Applications of Statistics in Bio-medical field (UGC sponsored National level workshop), 24- 25 January 2012.
- Conducted a one week course in Bio-statistics & Epidemiologic methods to five college teachers in Kerala, 16-20 May 2011.

Table 51: Ongoing Doctoral Programmes

Sl. No.	Research Scholar	Title of Study/University	Guide
1.	Dr. Aleyamma Mathew	Female breast and reproductive tract cancers in Kerala: statistical modeling and projections (in Statistics) / Mahatma Gandhi University, Kottayam. (Submitted)	Dr. K.K. Jose
2.	Ms. Manju L.	Risk estimates of bladder cancer: multiple logistic regression model / University of Kerala	Dr. Aleyamma Mathew
3.	Ms. Grata Ildaphonsa	Risk factors of kidney cancer: a matched case-control study / University of Kerala	Dr. Aleyamma Mathew
4.	Ms. Sona P.S.	Performance status and quality of life of ovarian cancer patients / University of Kerala	Dr. Aleyamma Mathew
5.	Ms. Subha R. Nair	Risk prediction models for the development of breast cancer	Dr. Aleyamma Mathew
6.	Dr. Jayakrishnan R.	Evaluating the effectiveness of community based tobacco cessation strategies in Thiruvananthapuram district / University of Tampere	Dr. Aleyamma Mathew
7.	Ms. Melbin John	Burden and projection of cancer in India / University of Tampere	Dr. Aleyamma Mathew

Visiting Trainees

Training provided

Three-months training on statistical epidemiology (Postgraduate thesis work)

Training in Biostatistics to M.Sc. Nursing students, KIMS College of Nursing, Thiruvananthapuram.

Consultancy service on statistical design and analysis as well as cancer statistics

Table 52: Site-wise distribution of patient registration by gender (2011 - 2012)

ICD-10	Site	Male		Female		Total	
		No.	%	No.	%	No.	%
C00	Lip	20	0.3	9	0.1	29	0.2
C01	Base of tongue	50	0.8	5	0.1	55	0.4
C02	Tongue	340	5.4	149	2.4	489	3.9
C03	Gum	120	1.9	69	1.1	189	1.5
C04	Floor of mouth	50	0.8	14	0.2	64	0.5
C05	Palate	35	0.6	20	0.3	55	0.4
C06	Other mouth	248	3.9	157	2.5	405	3.2
C07	Parotid gland	26	0.4	25	0.4	51	0.4
C08	Salivary gland	16	0.3	8	0.1	24	0.2
C09	Tonsil	50	0.8	3	0	53	0.4
C10	Oropharynx	95	1.5	9	0.1	104	0.8
C11	Nasopharynx	28	0.4	23	0.4	51	0.4
C12	Pyriiform sinus	67	1.1	5	0.1	72	0.6
C13	Hypopharynx	55	0.9	28	0.4	83	0.7
C14	Pharynx unspecified	5	0.1	2	0	7	0.1
C15	Oesophagus	243	3.9	94	1.5	337	2.7
C16	Stomach	327	5.2	114	1.8	441	3.5
C17	Small intestine	12	0.2	5	0.1	17	0.1
C18	Colon	128	2	91	1.4	219	1.7
C19	Rectosigmoid colon	42	0.7	21	0.3	63	0.5
C20	Rectum	191	3	152	2.4	343	2.7
C21	Anus & anal canal	7	0.1	5	0.1	12	0.1
C22	Liver	148	2.4	35	0.6	183	1.5
C23	Gall bladder	20	0.3	21	0.3	41	0.3
C24	Other biliary tract	26	0.4	18	0.3	44	0.3
C25	Pancreas	104	1.7	57	0.9	161	1.3
C26	Other ill-defined digestive organs	1	0.0	--	--	1	0.0
C30	Nasal cavity	22	0.3	7	0.1	29	0.2
C31	Accessory sinus	18	0.3	18	0.3	36	0.3
C32	Larynx	270	4.3	16	0.3	286	2.3
C33	Trachea	1	0.0	--	--	1	0.0
C34	Lung	821	13	157	2.5	978	7.8
C37	Thymus	3	0.0	2	0.0	5	0.0
C38	Heart & mediastinum	26	0.4	7	0.1	33	0.3
C40	Bone of limbs	45	0.7	18	0.3	63	0.5
C41	Other bone	18	0.3	17	0.3	35	0.3
C43	Skin melanoma	26	0.4	21	0.3	47	0.4
C44	Skin other	75	1.2	61	1	136	1.1

C47	Peripheral nerves system			1	0.0	1	0.0
C48	Retroperitoneum	24	0.4	19	0.3	43	0.3
C49	Connective tissue	80	1.3	45	0.7	125	1.0
C50	Breast	28	0.4	1782	28.3	1810	14.4
C51	Vulva	--	--	8	0.1	8	0.1
C52	Vagina	--	--	19	0.3	19	0.2
C53	Cervix uteri	--	--	520	8.2	520	4.1
C54	Corpus Uteri	--	--	208	3.3	208	1.7
C55	Uterus, nos	--	--	32	0.5	32	0.3
C56	Ovary	--	--	335	5.3	335	2.7
C57	Other female genital organs	--	--	8	0.1	8	0.1
C60	Penis	31	0.5	--	--	31	0.2
C61	Prostate	216	3.4	--	--	216	1.7
C62	Testis	38	0.6	--	--	38	0.3
C63	Other genital organs	3	0.0	--	--	3	0.0
C64	Kidney	101	1.6	33	0.5	134	1.1
C65	Renal pelvis	3	0.0	--	--	3	0.0
C66	Ureter	5	0.1	1	0.0	6	0.0
C67	Urinary bladder	132	2.1	15	0.2	147	1.2
C68	Other urinary organs	1	0.0	--	--	1	0.0
C69	Eye	10	0.2	13	0.2	23	0.2
C71	Brain	202	3.2	130	2.1	332	2.6
C72	Spinal cord	5	0.1	3	0.0	8	0.1
C73	Thyroid gland	229	3.6	811	12.9	1040	8.3
C74	Adrenal gland	10	0.2	7	0.1	17	0.1
C75	Other endocrine gland	3	0.0	5	0.1	8	0.1
C76	Ill defined sites	19	0.3	14	0.2	33	0.3
C77	Secondary lymphnode	107	1.7	40	0.6	147	1.2
C78	Secondary respiratory & digestive	51	0.8	39	0.6	90	0.7
C79	Secondary Other sites	41	0.7	27	0.4	68	0.5
C80	Primary unknown	75	1.2	27	0.4	102	0.8
C81	Hodgkin's disease	90	1.4	42	0.7	132	1.0
C82	Follicular NHL	56	0.9	27	0.4	83	0.7
C83	Diffuse NHL	170	2.7	87	1.4	257	2.0
C84	T-cell lymphoma	33	0.5	18	0.3	51	0.4
C85	Other NHL	57	0.9	38	0.6	95	0.8
C90	Multiple myeloma	152	2.4	97	1.5	249	2.0
C91	Leukemia, lymphoid	232	3.7	132	2.1	364	2.9
C92	Leukemia, myeloid	210	3.3	199	3.2	409	3.2
C93	Leukemia, monocytic	31	0.5	21	0.3	52	0.4
C94	Other specified leukaemia	10	0.2	5	0.1	15	0.1

C95	Leukemia, unspecified	38	0.6	27	0.4	65	0.5
C96	Other lymphoid neoplasm	17	0.3	10	0.2	27	0.2
C00-C96	Total	6289		6308		12597	
	In-situ	5	0.7	51	5.0	56	3.3
	Borderline malignancy	75	11.2	126	12.5	201	11.9
	Benign tumours	68	10.1	208	20.6	276	16.4
	Non-neoplastic (include pre-malignant conditions & others)	216	32.1	299	29.6	515	30.6
	Diagnosis not confirmed	308	45.8	329	32.3	637	37.7
	Total	672		1013		1685	
	Total No. of Patients	6961		7321		14282	100

Table 53: Population-based cancer registry, Thiruvananthapuram Taluk (2010): Age-Adjusted Incidence Rate (AAR) per 100,000 persons of leading cancer sites

ICD_10 code	Site	Male (833)		Female (923)	
		AAR	Rank	AAR	Rank
C00-06	Oral cavity	14.7	1	4.4	9
C09-10, C12-14	Pharynx	6.8	5	0.5	>10
C15	Esophagus	3.6	9	2.0	10
C16	Stomach	4.6	8	1.7	>10
C32	Larynx	5.3	7	0.6	>10
C33- C34	Lung	14.3	2	5.0	7
C50	Breast	1.3	>10	37.3	1
C53	Cervix uteri	--	--	7.6	3
C54	Corpus uteri	--	--	5.3	6
C56	Ovary	--	--	6.7	4
C61	Prostate	8.7	3	--	--
C73	Thyroid	3.6	10	10.2	2
C81-C85 & C96	Lymphoma	7.2	4	5.6	5
C91- C95	Leukemia	5.7	6	4.6	8
Total		134.2		128.8	

LIBRARY AND INFORMATION SERVICES

Vishnu V.

Librarian cum Information Officer

This division is the hub of all the knowledge management activities of RCC. It plays a key role in the collection, storage and dissemination of medical and related literature, thus contributing significantly to all the academic and clinical processes in RCC. This division provides support to many administrative activities as well including the ongoing initiatives towards achieving NABH accreditation.





Major Achievements

- Upgraded the Library Management Software, with 'Liberty'®, a fully web based Integrated Library Management Software. The software with in-built multimedia capabilities enables fast & efficient search, and retrieval. It replaced 'Alice for Windows', which has been in use for the past decade or more.
- Acquired Konica Minolta®, colour photocopier-cum-printer with better image quality and high-volume output capability.
- Added two LCD systems with 3500 and 2000 ANSI lumens, to the existing stock of projection equipments.
- Steps were taken to introduce Radio-Frequency Identification (RFID) system, a computer server and computer systems. RFID technology is a fully integrated system to track, manage and secure the reading materials in the library. The server with high storage capabilities shall ensure storage and retrieval of library resources including RCC publications held in 'Liberty'. Steps were also initiated to bring library in the ambit of proposed campus wide Wi-Fi facility.

Collection Development

New editions of frequently referred books and other noteworthy titles were procured. Suggestions from users were invited periodically in the collection development process. Journal subscription was streamlined based on the feedback from journal usage statistics.

Reprint procurement arrangement from DELNET was renewed, on account of its increased demand. More than 90 % of article requests were satisfied through this arrangement.

Table 54: Addition of information resources

Document type	Additions	Collection as on March 2012
Books, Monographs and Back Volumes	378	12192
Current Journals	5	107
E-Books	15	65
E-Journals	5	96
Reprints and Reports	232	6591
CD ROMs/DVDs	11	422

Subscription to UpToDate®

Subscribed to this evidence-based clinical resource and made access available in the RCC campus network.

Library use

Among the 76 new members enrolled, student category stood foremost. Library resources and facilities were heavily used by external users also. Library web page of RCC Intranet was updated regularly with content pages of current journals, newly procured books, forthcoming conferences alert and relevant news items from the media.

Support services

Audiovisual and reprographic requirements of RCC were supported throughout the period. Work related to the publication of annual report for 2010-11 was completed

and copies were distributed. Membership in DELNET was renewed for procuring articles not available through the existing journal subscription.

Library Internship & Orientation

Internship training was provided to two Master of Library & Information Science (M.L.I.Sc.) students of Department of Library & information Science, University of Kerala. Library orientation was also provided to Library Science students from Department of Library & Information Science, Kannur University, and also to MPH students from Sree Chitra Tirunal Institute of Medical Sciences & Technology, Thiruvananthapuram.



INFORMATION SYSTEMS

Neelima N.

Systems Manager & Head

The main responsibilities include developing and implementing hospital policy for information and associated computer technology. It undertakes extensive system development and research and has responsibilities for organizational and management change to support systems implementation and utilization. It supports and maintains operational systems and trains hospital staff in the use of information technology.





Other routine activities include:

Maintenance of Hospital Information System, web, mail and proxy servers, administration of Oracle database, management of LAN and WAN, management of data relating to Cancer Care for Life scheme, maintenance of PCs and trouble shooting, administration and maintenance of telemedicine software and equipments, scanning of case sheets etc

Hospital Information System (HIS)

HIS is a network of computers, which is used to collect, process and retrieve both patient care information and administrative information from various departments to satisfy the functional requirements.

RCC-INTRANET

RCC-INTRANET hosts online library services, institutional news service, staff search, personal information of staff such as leave, salary, tax planner, etc. in a downloadable format.

Cancer Registry Network

Online data entry and searching facility were provided on the intranet, for the hospital cancer registry and population based cancer registries.

EARLY CANCER DETECTION CENTRE (ECDC), ERNAKULAM

Latha A.

Cytopathologist

Screening and early detection of cancer cases through cervical smear examination, oral scrape smear examination, fine needle aspirations, colposcopy and body secretion screening are the main objectives of the centre. In addition to the daily OPD services of about 50-60 patients per day, ECDC conducts cancer detection camps in the rural and urban areas of Ernakulam and neighbouring district, cancer awareness classes, seminars and health talks. The monthly follow up clinic conducted on every 3rd Saturday was attended by 746 patients. Video conferencing, consultations, slide discussions, patient referral and cancer awareness classes were conducted through telemedicine facility.

Table 55: Patient services

Services	Total No.
Persons screened	13954
Cancer Detection Camps	71
Awareness Classes	65
Follow ups	746

Table 56: Clinical activities

Tasks	ECDC	Camp	Total
Cervical Smear	3691	3317	7008
Oral Smear	266	55	321
Fine Needle Aspiration Cytology	2609	1225	3834
Sputum Cytology	50	.....	50
Body Fluids	164	267	431
Peripheral Smears	15	10	25

Table 57: Cancers & Precancers detected

Cases	ECDC	Camp	Total
Oral Cancer	16	....	16
Breast Cancer	141	7	148
Cervical Cancer	15	1	16
Thyroid	19	....	19
Others	86	2	88
Precancers/Atypia	170	15	185

EARLY CANCER DETECTION CENTRE (ECDC), PALAKKAD

Sanil P.N.

Cytotechnologist

Creating cancer awareness among the public and screening them for cancer are the main functions of this ECDC. The Centre has extended its services to the tribal areas of Palakkad district such as Anakkal, Nadupathy and Agali and organized cancer detection camps and awareness programmes in the rural and urban areas of Palakkad, Malappuram and Thrissur districts with assistance from governmental and non-governmental organisations. Programmes for the early detection of cervical cancer were conducted through mass screening at the District Hospital, Palakkad. Breast self-examination classes were attended by 838 women. 'Meet the oncologist', a joint venture with Fluid Control Research Institute, Palakkad, continued. Follow up clinics were conducted every three months.

Table 58: Patient services

Services	Total No.
Persons screened	15,565
Cancer detection camps	43
Awareness classes	35
Patients referred to RCC	19
Attendance at 'Meet the oncologist'	394
Follow ups	143

Table 59: Clinical activities

Tasks	ECDC	Camp	Total
Cervical smear	1897	2390	4287
Oral smear	40	28	68
FNAC	26	40	66
Sputum cytology	14	---	14
Nipple discharge	06	6	12
Total	1983	2464	4447

Table 60: Cancers detected

Cases	ECDC	Camp	Total
Oral cancer	11	1	12
Oral precancers	29	27	56
Breast cancer	3	2	5
Cervix cancer	11	1	12
Cervix precancers	65	76	141
Other malignancies	1	--	1
Total	120	107	227

NATURAL BACKGROUND RADIATION CANCER REGISTRY (NBRR), KARUNAGAPPALLY

Jayalekshmi P.

Lecturer & Officer-in-charge

The Natural Background Radiation Cancer Registry, an outreach centre of RCC, was started to evaluate the health effects of natural radiation present in the sea coast of Karunagappally Taluk, Kollam district. The registry conducted radiation risk analysis. Cytogenetic studies to evaluate chromosome aberrations and thyroid nodularity studies were conducted to assess the effects of radiation exposure. Dosimetric studies, sociodemographic surveys and cancer incidence studies concentrating on risk analysis have been undertaken encompassing the whole cohort. Cancer outreach and palliative care services were rendered for the community.

Table 6 I: Clinical activities and patient services

Particulars	No.	Persons attended
Cancer awareness classes & Palliative care training programs	23	4117
Review clinics	6	461
Pain clinics & Supportive clinics	Daily	9233
Field detection camps	53	10610
Pap smear screening	-	2639
FNAC and Scrape (Cytology investigations)	-	215
Cancer cases detected	25	-

MULTIDISCIPLINARY CLINICS

'A' CLINIC

(HAEMATOLOGICAL, LYMPHORETICULAR, BONE & SOFT TISSUE SARCOMA)



The 'A' clinic deals with the diagnosis and management of haematological and lymphoreticular malignancies, sarcomas and other solid tumors where intensive chemotherapy is indicated. Dose intense protocols were used for the treatment of all leukaemias and lymphomas. In addition to chemotherapy, special procedures such as limb salvage surgery and brachytherapy were carried out for sarcomas. Two hundred new patients with chronic myeloid leukaemia were enrolled in the Novartis Patient Assistance (NOVA) programme and were given imatinib free of cost.

Clinical Procedures/Services Offered

Patients consulted

Patients	Number
New cases	2037
Review cases	29,478
Total	31,515

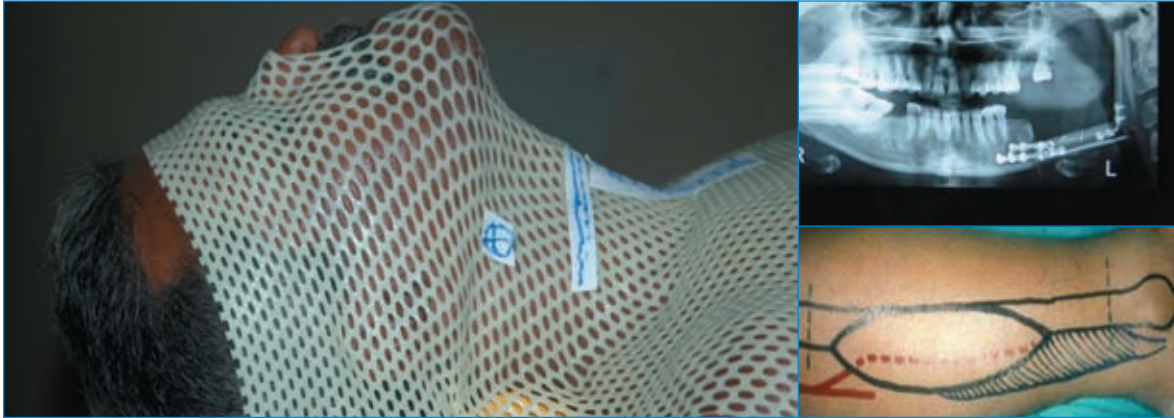
Specialised services

High Dose chemo	Autologous BMT	Allogenic BMT
2600	17	9

Surgical Procedures

Total	:	155
Radiation treatments	:	534
Observers/Trainees	:	25

'B' CLINIC (HEAD & NECK)



'B' clinic is a multidisciplinary clinic comprising of Radiation Oncologists, Surgical Oncologists, ENT surgeons and plastic surgeons. The services provided include state-of-the-art radiotherapy facilities including 3DCRT, IMRT and standard chemotherapy. Surgical oncology services included complex cranio-facial resections and microvascular reconstructions. The clinic provided rehabilitation services too. Weekly multi-disciplinary tumour boards were conducted. Clinic is actively involved in screening, translational research and phase II and III clinical trials. Clinical training was given to post graduate students of Radiation Oncology, Surgical Oncology, ENT, Oral and Maxillofacial Surgery, General Surgery, Oral Medicine from various institutions.

Clinical Procedures/Services Offered

Patients consulted	
Cases	Number
New cases	2,418
Review cases	25,747
Total	28,165

Radiotherapy

Radical			Palliative
IMRT	3D CRT	2D Planning	
104	101	1132	80

Surgical Procedures

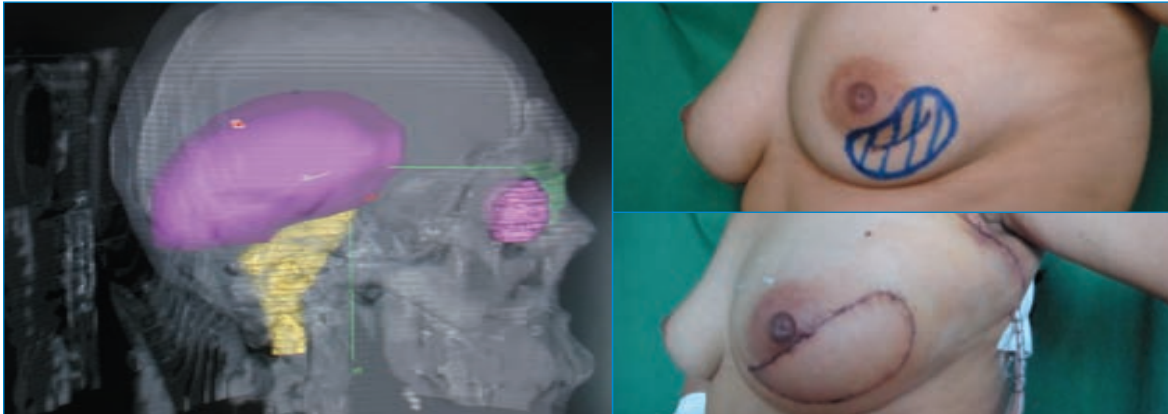
Oral cancers	Laryngo-pharyngeal	Salivary glands	Others
576	68	38	1712

Chemotherapy

Concurrent chemo-radiotherapy	Neo-adjuvant chemotherapy
800	314

'C' CLINIC

(BREAST & CENTRAL NERVOUS SYSTEM)



The 'C' clinic deals with the treatment of cancers arising in the breast and central nervous system offering surgery, radiotherapy, chemotherapy, targeted therapy and endocrine therapy services. The clinic also caters to paediatric patients who need radiotherapy as a part of their management. The activities of the lymphoedema clinic were streamlined so as to cater to more number of patients. A breast support group was formed to cater to the psychosocial problems of breast cancer survivors. The month of October was observed as 'Breast Cancer Awareness' month, and 610 women underwent free breast cancer detection consultations.

Clinical Procedures/Services Offered

Patients consulted	
Patients	Number
New cases	2402
Review cases	37,637
Total	40,039

Radiotherapy

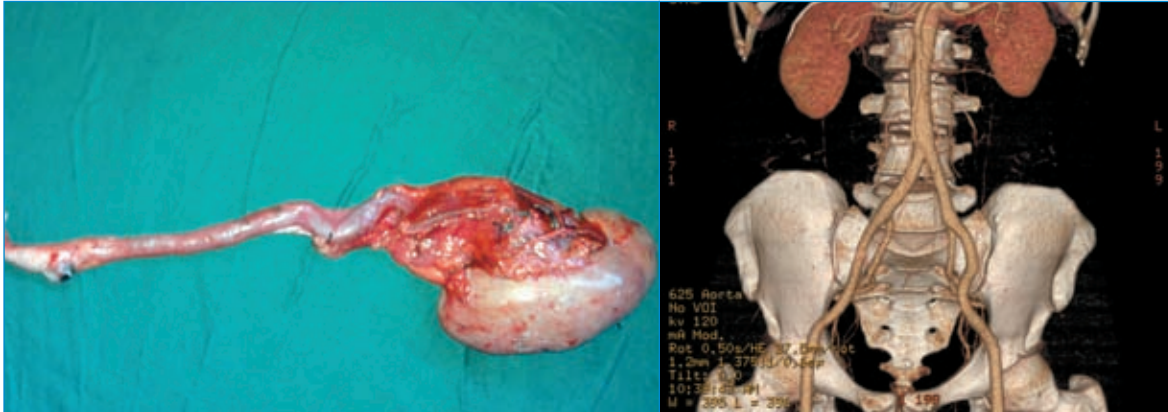
Radical				Palliative
Conformal	Conventional	IMRT	Stereotactic Radiosurgery	
399	746	5	16	95

Surgical Procedures

Mastectomy	Breast Conservation	Others
771	114	115

'D' CLINIC

(GYNAEC, GENITO-URINARY & OTHERS)



The 'D' Clinic offers services to patients with urologic, gynaecologic, skin cancers and cancers of unknown primary origin. The patients undergo diagnostic and staging evaluation followed by therapy involving surgery, radiotherapy, chemotherapy or a combined modality approach. Image Guided Intensity Modulated Radiotherapy was introduced during the reporting period, which included patients with implanted fiducials. The new brachytherapy planning system, Oncentra was used during the period. Image based brachytherapy was initiated to improve accuracy and limit toxicity.

Clinical Procedures/Services

Patients consulted	
Patients	No.
New cases	2422
Review cases	25,056
Total	27,478

Radiotherapy

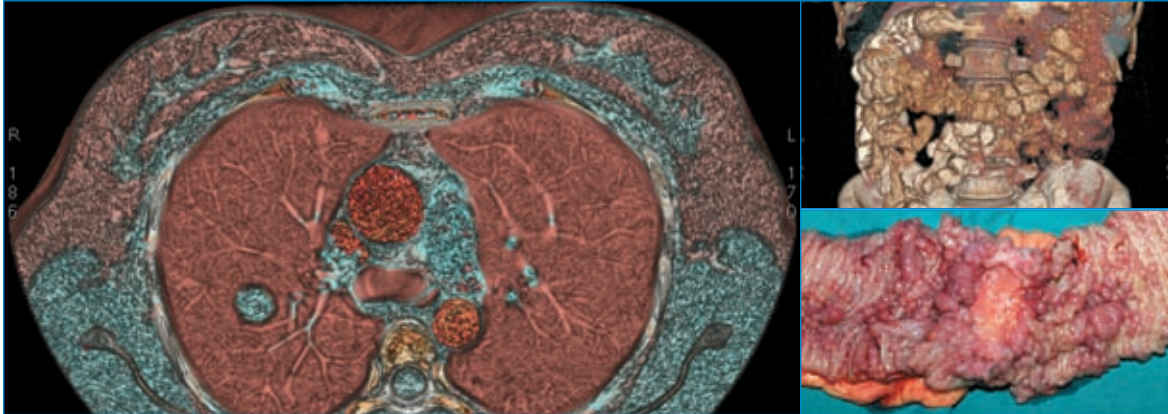
IGRT/IMRT	Conformal	Radical			Brachytherapy		Palliative
		CT Plan	2D plan	HDR	Image Guided		
19	54	256	645	1447	25	174	

Surgical Procedures (Gynaec, Uro & Skin)

Gynaec	Staging LAP	98
	Ovary Cytoreduction	72
	Uterine Neoplasm: Hysterectomy	99
	Cervix carcinoma: Hysterectomy	52
	Exenteration	1
	Others	27
	Urological	Nephrectomy	23
Penectomy		14
Groin dissection		10
Bladder/Ureter		13
Skin		Squamous Cell Carcinoma (Wide excision)	43

'E' CLINIC

(CHEST & GASTRO-INTESTINAL)



The 'E' clinic caters to patients with cancers of lung, mediastinum, gastro-intestinal tract and hepatobiliary tract. The clinic offers comprehensive multidisciplinary state-of-the-art radiotherapy, surgery and chemotherapy services. Surgical services were augmented for pancreatic cancer surgeries, laparoscopic surgeries for the colorectal malignancies, thoracoscopic surgeries for upper gastro-intestinal (GI) and mediastinal tumor biopsies. Incorporation of better preoperative optimization and ICU protocols decreased the morbidity rates associated with upper GI surgeries.

Radiotherapy

	Radical		Palliative
Conformal	CT/2D Plan	Brachytherapy	421
87	540	16	

Surgical procedures

Esophagus	Stomach	Pancreas	Colon	Rectum	Others
46	50	21	48	124	114

Clinical Procedures/Services Offered

Patients consulted	
Patients	Number
New cases	3285
Review cases	25,549
Total	28,834

'F' CLINIC (PAEDIATRIC ONCOLOGY)



'F' clinic handles childhood malignancies up to the age of 14 years. 617 new cases and 23,978 review cases were seen during the report period. Among the new cases reported, acute lymphoblastic leukaemia and brain tumour were the most common malignancies. A total of 1485 admissions were recorded in paediatric ward.

Clinical Procedures/Services Offered

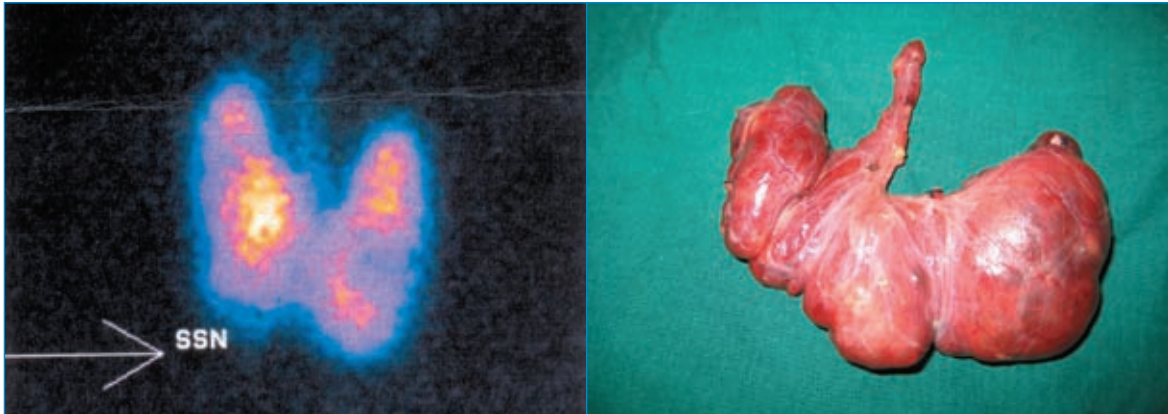
Patients consulted	
Patients	No.
New cases	617
Review cases	23,978
Total	24,595

Surgical Procedures

Broviac insertions	113
Bone marrow + Lumbar puncture (diagnostic and therapeutic)	3774

Observers/Trainees: Provided regular training to the postgraduate radiotherapy students of the Centre and other Medical Colleges in Kerala as well as to the Paediatrics students from Sree Avitom Tirunal Hospital, Thiruvananthapuram, Kerala Institute of Medical Sciences, Thiruvananthapuram and CSI Medical College, Karakonam.

'G' CLINIC (THYROID)



'G' clinic is a multidisciplinary clinic comprising experts from Nuclear Medicine, Surgical Oncology and Radiation Oncology divisions. The Thyroid clinic attracts cases of thyroid cancer as well as non-malignant cases. The number of thyroid cancer cases has shown a steady increase.

Clinical Procedures/Services Offered

Patients consulted	
Patients	Number
New cases	1101
Review cases	11,078
Total	12,179

Nuclear Medicine services

Immunoassays	SPECT Gamma camera	Radio-iodine	
		Thyroid Cancer	Thyrotoxicosis
22,712	6945	499	346

Surgical Procedures

260

Radiotherapy

Radical	Palliative
37	36

Visitor: Dr. R. Michael Tuttle, Endocrinologist, Memorial Sloan Kettering Cancer Centre, New York, USA

Functions, Workshops & Conferences Organised

Sl. No.	Name of Programme	Date
1.	South Zone CME of Indian Association of Surgical Oncology: Excellence in Cancer Surgery Through Innovations	9-10 April 2011
2.	World No Tobacco Day	31 May 2011
3.	India-Singapore International Conference on Breast Cancer	22-23 July 2011
4.	Indian Society of Blood Transfusion & Immunohaematology CME on Recent Trends in Transfusion Medicine	24 July 2011
5.	World Palliative Care Day	8 October 2011
6.	Workshop for Doctors in Department of Health on World Breast Cancer Day	22 October 2011
7.	National Cancer Registry Programme (ICMR): Cancer Registry Meeting	30 November 2011
8.	State Level conference on Quality Cancer Care: Newer Perspectives	10 December 2011
9.	World Cancer Awareness Day	4 February 2012
10.	International Childhood Cancer Awareness Day	14 February 2012

Honours, Awards and Recognitions Received by Staff & Students

RCC was awarded the 'Kerala State Energy Conservation Award 2011' in appreciation of the commendable achievements towards energy conservation and management in category of 'buildings', instituted by the Department of Power, Government of Kerala through Energy Management Centre, Kerala on 14 December 2011 to mark the National Energy Conservation Day.

Abdul Shahid and Lakshmi Haridas, DM Medical Oncology students were awarded ESO Scholarship to attend the International Conference on Lymphoma Leukemia at Mumbai, January 2012.

Aleyamma Mathew was selected as regional editor of the journal 'Asian Pacific Journal of Cancer Prevention'. Received Prof. (Miss) Aleyamma George memorial best paper award conducted by the Kerala Statistical Alumni Association, May 2011.

Chandramohan K., was awarded Fellowship by British Association of Surgical Oncologists (BASO) and Association Colorectal Surgeons of India in advanced GI surgery at Heartlands Hospital, Birmingham, UK.

Cherian M. Koshy, received award for Debate at the International Conference of Indian Association of Palliative Care at Kolkatta, 10-12 February 2012.

Geetha N., was selected as member of the expert committee on New Drugs and Clinical Trials Committee (NDAC) of Drugs Controller General of India by the Ministry of Health, Govt. of India.

Gigi Thomas, Awarded UICC (ICRETT) Fellowship, 2011 at Screening Group, International Agency for Research on Cancer (IARC), Lyon, France.

Gigi Thomas, received best paper award for 'Long Term Outcome of Surgical Excision of Oral Leukoplakia in a

Screening Intervention Trial, Kerala', at the XXIII National Conference of Indian Academy of Oral Medicine and Radiology, 9-11 December, 2011.

Jaya T. S., received Best Nurse Award by Oncology Nurses Association of India.

Jayasree K., was selected as Member, External Quality Assessment Committee, Indian Academy of Cytologists.

Kannan S., elected as Executive Committee Member for Indian Association for Cancer Research.

Kusumakumary P., received 'R.V. Lokeshwar memorial oration award' at 15th Annual National Conference of the Pediatric Hematology Oncology Chapter of Indian Academy of Paediatrics

Manu M. Joseph, Best oral presentation award in ORIBIO 2012, Conference organized by International Centre for Intellectual Training and Empowerment (INCITE), Thiruvananthapuram, 29 February 2012.

Rari P. Mony, First Prize in poster quiz in 'VICTORYPATH 2012', CME on Hematology & Gross pathology, February 2012, held at Medical College, Thiruvananthapuram.

Rekha A. Nair, was selected as ICMR Task force member on Immunophenotyping of Hematolymphoid Neoplasms.

Sangeetha Vijay, Best paper award in Medical Biotechnology at International Conference on Advances in Biological Sciences (ICABS), Kannur, Kerala. 15-17 March 2012.

Sheeba P.K., 'Best Nursing Assistant', Jayashree Ramachandran Memorial Sewana Shree Award 2011 - by Jayashree Ramachandran Memorial Endowment Project.

Sivakumari P.R., 'Best Nurse', Jayashree Ramachandran Memorial Sewana Shree Award 2011 - by Jayashree Ramachandran Memorial Endowment Project.

Distinguished Visitors/Talk delivered

Sl. No.	Visitor	Date
1.	Dr. Shashi Tharoor, M.P. visited Divisions of Palliative Medicine and Paediatric Oncology	14 September 2011
2.	Dr. Daniel A. Monti, Executive & Medical Director, Myrna Brind Centre of Integrative Medicine, Thomas Jefferson University Hospital, Philadelphia, USA. Delivered a talk on 'Academic approach to integrative cancer care'.	19 December 2011
3.	Dr. Cherian Varghese, Technical Officer; Non Communicable Diseases, WHO, Western Pacific Regional Office, Manila, Philippines. Delivered a talk on 'Comprehensive approach to cancer control'.	23 December 2011
4.	Dr. Sadasivan Vidyasagar, Assistant Professor; Radiation Oncology, University of Florida, USA. Delivered a talk on 'The effect of radiation of gastro-intestinal toxicity: an experimental approach'.	21 January 2012
5.	Legislative Committee on Private Members Bills and Resolutions, Govt. of Kerala.	6 February 2012
6.	Dr. Donald Sheppard, Associate Professor; Dept. Of Medicine, Mc Gill University, USA. Delivered a talk on 'Role of antifungal agents in neutropenic patients'.	8 March 2012
7.	Dr. R. Michael Tuttle, Endocrinologist, Memorial Sloan Kettering Cancer Centre, New York, USA	9 March 2012

Conferences, Training Programmes and Meetings Attended & Papers Presented by Staff & Students

INTERNATIONAL

Sl. No.	Participant/Speaker	Conference/Meeting	Date & Venue	Title of the Paper/Participants' status
1.	Asha Arjunan	34th San Antonio Breast Cancer Symposium	6-10 Dec 2011, San Antonio, Texas	Participant
2.	Asha Arjunan, Zhenia Gopalakrishnan	Brainlab's Course on Stereotactic Radiotherapy and Radiosurgery System	19-23 Mar 2012, Brain Lab, Germany	Participants
3.	Balagopal P.G.	3rd World Congress of the International Academy of Oral Oncology (IAOO)	14-17 Jul 2011, Singapore	Paper: 'Clinico-pathological predictors of recurrence in squamous cell carcinoma of buccal mucosa'.
4.	Geetha N.	UAE Cancer Congress	6-8 Oct 2011, Dubai	Paper: 'CNS lymphoma'.
5.	Jayaprakash P.G.	European Society of Medical Oncology Meeting	22-25 June 2011, Spain	Participant
6.	Jayaprakash P.G.	American Society for Therapeutic Radiology and Oncology Meeting	2-6 Oct 2011,	Participant
7.	Jayaprakash P.G.	Onsite Clinical Training at Kanton Hospital	9-10 June 2011, Luzern, Switzerland	Participant
8.	Jayaprakash P.G., Raghukumar P.	Varian Advanced Training (IMRT/RA)	9-10 June 2011, Switzerland	Participants
9.	Kalavathy M.C.	4th International Cancer Control Congress	2-5 Nov 2011, Seoul	Papers: 1. 'Role of Accredited Social Health Activists (ASHA) in organized breast cancer detection programmes of rural Kerala, India'. 2. 'Age difference in cervical neoplasia distribution among women attending a hospital based and peripheral screening programme, Trivandrum, Kerala, India'.
10.	Kalavathy M.C.	15th World Conference on Tobacco or Health	20-25 Mar 2012, Singapore	Paper: 'Age distribution of pan chewing related oral neoplasia among the participants of a rural women cancer screening programme in Trivandrum, Kerala, India'.
11.	Lakshmi Balakrishnan	American Society of Clinical Oncology Annual Meeting	3-7 June 2011, Chicago, USA	Participant

12.	Lali V.S.	UAE Cancer Congress	6-8 Oct 2011, Dubai	Participant
13.	Nebu A. George	3rd World Congress of the International Academy of Oral Oncology (IAOO)	14-17 Jul 2011, Singapore	Papers: 1.'Morbidity in SOHND : a RCT'. 2.'CA tongue : a retrospective review of 643 patients who had surgery as primary modality'.
14.	Paul Sebastian	3rd World Congress of the International Academy of Oral Oncology (IAOO)	14-17 Jul 2011, Singapore	Participant
15.	Raghu Ram K. Nair	Working Group Meeting for drafting UNSCEAR Report on Low Dose Radiation	3-6 Mar 2012, Tokyo	Talk:'HBRA of Karunagappally cohort summary'.
16.	Ramadas K.	3rd World Congress of the International Academy of Oral Oncology Instructional Course: IMRT Contouring for Head & Neck Cancers	14-17 Jul 2011, Singapore	Faculty
17.	Rema P, Suchetha S.	IFCPC Distance Learning Programme on Diagnosis and Treatment of Cervical Intraepithelial Neoplasia	16-19 Jan 2012, Cape Town	Participants
18.	Saju B.	Varian IMRT Training	9-11 Aug 2011, Zuig, Switzerland	Participant
19.	Shaiju V.S., Sivanandan D.	Varian Advanced Imaging Clinical School (IGRT/ RPM)	29 Jun-2 Jul 2011, Wirral, U.K.	Participants
20.	Sivanandan D.	Short Course on The Structure of Clinical Trial and Experimental Therapeutics	10-14 Oct 2011, University of Oxford, Oxford	Participant
21.	Sumod Mathew Koshi, Venugopal M.	Training Programme in Stereotactic Breast Biopsy at Hologic Training Centre	28 Nov-2 Dec 2011, Brussels, Belgium	Participants

NATIONAL

Sl. No	Participant/Speaker	Conference/Meeting	Date & Venue	Title of the Paper/Talk/ Participants' status
1	Ahluwalia Gurpreet, Arunkumar N, Rari P. Mony, Sindhu Nair P.	VICTORYPATH 2012: PG Training programme	12-13 Feb 2012, Thiruvananthapuram	Participants
2	Ahluwalia Gurpreet	67th Annual Conference of Indian Association of Pathologists and Microbiologists, Kerala Chapter Meeting	13 Aug 2011, Perinthalmanna	Poster: 'Metastasis of clear cell variant of renal cell carcinoma to thyroid'.
3	Ahluwalia Gurpreet, Shridhan Anand Patil	28th National CME in Haematology	26-29 Jan 2012, Mumbai	Participants
4	Ahluwalia Gurpreet, Alfy Ann George, Anila, KR, Anitha Mathews, Arunkumar N, Jayasree K., Jayasudha A.V., Nileena Nayak, Preethi T.R., Priya Mary Jacob, Rekha A. Nair, Renu S, Sindhu Nair P., Shridhan Anand Patil	68th Annual Conference of Indian Association of Pathologists and Microbiologists, Kerala Chapter Meeting	11 Feb 2012, Thiruvananthapuram	Participants
5	Ahluwalia Gurpreet	40th Annual Conference of Indian Association of Cytology CYTOCON 2011:	10-13 Nov 2011, Dharwad	Poster: 'Multinucleated giant cells in malignant phyllodes tumor'.
6	Aleyamma Mathew	Academic Staff College, University of Kerala, Karyavattom (UGC sponsored programme)	12 Dec 2011, Thiruvananthapuram	Talk: 'Research methods in life science and medical science'.
7	Aleyamma Mathew	National Workshop on Statistical applications in Bio-medical field (UGC sponsored programme)	24th Jan 2012, NSS College for Women, Thiruvananthapuram	Participant
8	Aleyamma Mathew, Paul Sebastian	Workshop on Patterns of Patient Care & Survival Studies (NCRP)	7-9 Feb 2012, National Centre For Disease Informatics and Research (ICMR), Bangalore	Participants

9	Aleyamma Mathew	A collaborative research project of International Agency for Research on Cancer Lyon, France (IARC), International Association of Cancer Registries Lyon, France (IACR) & Tata Memorial Centre, Mumbai, India	22 Feb 2012, Chennai	Talk: 'A study on methodology of population based cancer registries in India'.
10	Aleyamma Mathew	Indian Council of Medical Research, New Delhi: Project presentation	29 Feb 2012 & 9 Mar 2012	Talk: 'Comparative study of clinical and epidemiological factors of breast cancer in rural and urban area of India'.
11	Alfy Ann George	CYTOCON 2011: 40th Annual Conference of Indian Association of Cytology	10-13 Nov 2011, Dharwad	Poster: 'Primary mammary lymphoma: case report'.
12	Alfy Ann George	67th Annual Conference of Indian Association of Pathologists and Microbiologists, Kerala Chapter Meeting	13 Aug 2011, Perinthalmanna	Poster: 'A case of adrenocortical carcinosarcoma'.
13	Alfy Ann George, Anitha Mathews, Renu S.	CME on Breast Pathology	23-24 Jan 2012, Vellore, Tamil Nadu	Participants
14	Anila KR, Anitha Mathews, Jayasree K., Thara Somanathan	India- Singapore International Conference on Breast Cancer	22-23 Jul 2011, Thiruvananthapuram	Faculties
15	Anila KR, Anitha Mathews, Rari P. Mony, Thara Somanathan	Update in GI Pathology	18-19 Nov 2011, Tata Memorial Hospital, Mumbai	Participants
16	Anila.K.R, Anitha Mathews, Preethi T R, Rari P. Mony, Renu S.	Amritha Head and Neck Supportive Oncology Meet	28 Feb 2012, AIMS, Kochi	Participants
17	Anila K.R	APCON 2011: 60th Annual Conference of Indian Association of Pathologists and Microbiologists	2-4 Dec 2011, Punjab	Participant
18	Anila Kumari S, Bensamma Varghese, Sunitha Kumari R, Suma P.V, Vijayalekshmi Ammal, Sivakumari P.	HIV/AIDS and ART training for Nurses Under Global Fund to Fight AIDS, Tuberculosis and Malaria (GFATM).	6 day training each in February and March 2012, Govt. College of Nursing, Thiruvananthapuram	Participants
19	Anupama Susmitha	State Level conference on Quality Cancer Care: Newer Perspectives	10 Dec 2011, Regional Cancer Centre, Thiruvananthapuram	Talk: 'Evidence based oncology nursing'.

20	Aravind S.R.	Fourth International Conference on Translational Cancer Research: Recent Developments in Cancer Prevention	16– 19 Dec 2011, Udaipur, Rajasthan,	Paper: 'Elucidation of cell death mechanism in nasopharyngeal carcinoma cells (KB) treated with antitumor polysaccharide isolated from Tamarindus indica'.
21	Arunkumar N.	CYTOCON 2011: 40th Annual Conference of Indian Association of Cytology	10-13 Nov 2011, Dharwad	Poster: 'Hepatoblastoma: mixed type in a 6 month old child'.
22	Arunkumar N.	67th Annual Conference of Indian Association of Pathologists and Microbiologists, Kerala Chapter Meeting	13 Aug 2011, Perinthalmanna	Participant
23	Arunkumar N.	APCON 2011: 60th Annual Conference of Indian Association of Pathologists and Microbiologists	2-4 Dec 2011, Punjab	Poster: 'Angiomyolipoma of renal capsule: a rare entity'.
24	Arunkumar N.	International CME on Liver Pathology	27-29 Jan 2012, New Delhi	Participant
25	Asha Arjunan	India- Singapore International Conference on Breast Cancer	22-23 Jul 2011, Thiruvananthapuram	Panelist: 'Locally advanced breast cancer'.
26	Arun Peter Mathew	India- Singapore International Conference on Breast Cancer	22-23 Jul 2011, Thiruvananthapuram	Talk: 'Risk prediction models and prevention strategies'.
27	Arun Peter Mathew, Chandramohan K.	Esophagus workshop and Conference	5-7 Aug 2011, Coimbatore	Participants
28	Arun Peter Mathew, Madhu Muralee	Rectal Cancer Update	3-5 Feb 2012, Chennai	Participants
29	Beela Sarah Mathew	India- Singapore International Conference on Breast Cancer	22-23 Jul 2011, Thiruvananthapuram	Talk: 'Challenges in endocrine therapy in breast cancer'.
30	Beela Sarah Mathew	South Zone CME of Indian Association of Surgical Oncology: Excellence in Cancer Surgery through Innovations	9-10 Apr 2011, Thiruvananthapuram	Talk: 'Adjuvant therapy for invasive breast cancer'.
31	Beena Koshy	State Level Conference on Quality Cancer Care: Newer Perspectives.	10 Dec 2011, Regional Cancer Centre, Thiruvananthapuram	Talk: 'Safe handling and administration of chemotherapy'.
32	Beena Koshy	Volunteer Training Program on Palliative Care	20 Feb 2012, IMA, Thiruvananthapuram	Talk: 'Home care of bedridden patients'.

33	Bhagyalakshmi R.	Annual National Conference of Indian Society of Anaesthesiologists	24-29 Dec.2011, Mumbai	Participant
34	Biba V.S.	31st Annual Convention of the Indian Association for Cancer Research & International Symposium on Cancer Genomics and its Impact in Clinics.	26-29 Feb 2012, Mumbai	Paper: 'Cytotoxicity studies of active fractions purified from Annona squamosa seed extract'.
35	Binu K.A.	Fourth International Conference on Translational Cancer Research: Recent Developments in Cancer Prevention	16- 19 Dec 2011, Udaipur, Rajasthan	Paper: 'The significance of estrogen receptor beta expression in breast cancer'.
36	Bipin T.Varghese	Joint Meeting of the Asian Society of Head and Neck Oncology (ASHNO) and FHNO	6-9 Oct 2011, Goa	Panel discussion: 'Head & neck reconstruction'. Poster: 'Objective and perceptual analysis of outcome of voice rehabilitation in an Indian tertiary referral centre'.
37	Bipin T.Varghese	CME Programme on Advanced Head & Neck Cancers	Dec 2011, Thiruvananthapuram	Panel discussion: 'Taxol in the armamentarium of treatment of locally advanced head and neck cancer: when where and how?'.
38	Chandramohan K.	Rectal Cancer Update	3-5 Feb 2012, Chennai	Debate: 'Local excision in T2T3 rectal cancer'.
39	Chandramohan K.	India- Singapore International Conference on Breast Cancer	22-23 Jul 2011, Thiruvananthapuram	Panel discussion: 'Locally advanced breast cancer'.
40	Chandramohan K.	Indian Association of Surgical Oncology National Conference	15-18 Sept 2011, Lucknow	Papers: 1. 'Oesophago-gastric junction cancers: treat it like oesophagus, stomach or separate entity?'. 2. 'Tumour primordial cells in colorectal cancers: Implications for surgical margin and minimal residue disease'.
41	Chandramohan K.	Association of Surgeons of India National Conference	25-30 Dec 2011, Kochi	Talks: 1. 'The journey of minimal invasive oesophagectomy for carcinoma: how far we have reached?'. 2. 'Tumour markers in surgery'.

42	Chandramohan K.	ABSI (Association of Breast Surgeons of India) CME	13-14 Aug 2011, Bangalore	Participant
43	Chandramohan K.	26th ICON Meeting	23-25 Mar 2012, Bangalore	Participant
44	Cherian M. Koshy	19th International Conference of Indian Association of Palliative Care	10-12 Feb 2012, Kolkata	Papers: 1. 'Making a difference and leading by example: Palliative care services at the Regional Cancer Centre, Trivandrum'. 2. 'Validation of the LANNS scale into Malayalam'. Talk: 'Future of palliative care in India'. Debate: 'Palliative care delivery needs education and training'. Poster: 'Voice in the midst of noise: Our experience in the follow up of patients over mobile phone'.
45	Christo Rajan	Fourth International Conference on Translational Cancer Research: Recent Developments in Cancer Prevention	16- 19 Dec 2011, Udaipur, Rajasthan	Paper: 'Identification of microRNA signatures in oral carcinoma'.
46	Chithra V G, Kavitha V G, Prasanna Kumari S, Shobha S, Christeen V, Elsamma Joseph, Mariamma James, Sally Abraham, Sheeba SV, Sheela Roderiques, Aniamma Joseph, Rajila Beegum	HIV/AIDS and ART training for Nurses Under Global Fund to Fight AIDS, Tuberculosis and Malaria (GFATM)	6 days each in April, June -December 2011, Govt. College of Nursing, Thiruvananthapuram	Participants
47	Debjani Phani, Divya KT, Zhenia Gopalakrishnan	Varian Advanced Training (IMRT/RA)	5-9 Dec 2011, Hyderabad	Participants
48	Deepak Roshan V.G.	31st Annual Convention of the Indian Association for Cancer Research & International Symposium on Cancer Genomics and its Impact in Clinics	26-29 Jan 2012, Navi Mumbai	Paper: 'Identification of molecular signature for predicting disease recurrence in oral carcinoma'.
49	Dileepkumar U.	31st Annual Convention of the Indian Association for Cancer Research & International Symposium on Cancer Genomics and its Impact in Clinics	26-29 Jan 2012, Navi Mumbai	Paper: 'DDRT-PCR analysis between young and old age tongue carcinoma'.

50	Elizabeth Mathew lype	Workshop on Dysphagia	November 2011, NISH, Thiruvananthapuram	Participant
51	Elizabeth Mathew lype	Association of Otolaryngology Meeting	Dec 2011, Thiruvananthapuram	Moderator: 'Live surgery workshop'.
52	Farha A.K.	31st Annual Convention of the Indian Association for Cancer Research & International Symposium on Cancer Genomics and its Impact in Clinics.	26-29 Jan 2012, Navi Mumbai.	Paper: 'Antiproliferative and apoptosis inducing effect of sesquiterpene lactones, deoxyelephantopin and isodeoxy-elephantopin on nasopharyngeal carcinoma cells'.
53	Francis V. James, Paul Sebastian	INDOX Meeting	Aug 2011, Delhi	Participants
54	Francis V. James, Jayaprakash P.G	UICC-AIMS Workshop	21-27 Sept 2011, AIMS, Kochi	Participants
55	Francis V. James, Susan Mathews	Association of Radiation Oncologists of India National Conference	24 Nov 2011, Jaipur	Participants
56	Gigi Thomas	XXIII National Conference of the Indian Academy of Oral Medicine and Radiology	9-11 Dec 2011,	Paper: 'Long term outcome of surgical excision in a screening intervention trial, Kerala'.
57	Hariharan S., Ramadas K.	American Association of Cancer Research: New Horizons in Cancer Research: Biology to Prevention to Therapy	13-16 Dec 2011, New Delhi.	Participants
58	Hariharan S.	31st Annual Convention of the Indian Association for Cancer Research & International Symposium on Cancer Genomics and its Impact in Clinics.	26-29 Jan 2012, Navi Mumbai.	Poster: 'Clinical importance of cytogenetic studies in adult leukemia'.
59	Jayakrishnan R.	Workshop on Medical and Public Health Organised by Kerala State Planning Board	15 Sept 2011, State Health Resource Centre, Thiruvananthapuram	Participant
60	Jayakrishnan R.	Cancer Registry Meeting of the National Cancer Registry Programme of India	30 Nov 2011, RCC, Thiruvananthapuram	Participant
61	Jayalekshmi P.	27th Annual Review Meeting of National Cancer Registry Programme (NCRP)	3-4 Nov 2011, Guwahati	Talk: 'Cancer incidence and mortality in Kollam for the year 2009'.

62	Jayaprakash P.G., Parameswaran S.	Association of Radiation Oncologists of India National Conference	24 Nov 2011, Jaipur	Screening committee members
63	Jayasree K.	CALIPATH 2011: CME for Post-graduates	Oct 2011, Kozhikode	Faculty: Slide seminar on bone tumours Talk: 'Recent developments in malignant bone tumours'.
64	Jayasree K.	CYTOCON 2011: 40th Annual Conference of Indian Association of Cytology	10-13 Nov 2011, Dharwad	Faculty: Seminar on glandular lesions of cervix
65	Jayasree K.	APCON 2011: 60th Annual conference of Indian Association of Pathologists and Microbiologists	2-4 Dec 2011, Punjab	Faculty: Symposium on bone tumours
66	Jayasree K.	Insight 2012: Annual CME on Bone Tumours	12 Mar 2012, Thiruvananthapuram	Faculty: Panel discussion of bone tumours
67	Jayasudha AV, Priya Mary Jacob, Shruti Prem, Sindhu Nair P.	Indian Society of Hematology & Transfusion Medicine: CME in Haematology	Sept 2011, AIMS, Kochi	Participants
68	Jiji V.	India- Singapore International Conference on Breast Cancer	22-23 Jul 2011, Thiruvananthapuram	Panelist: 'Locally advanced breast cancer'.
69	Jiji V.	Jyothirgamaya 2011	Oct 2011, Thiruvananthapuram	Participant
70	Jiji V., Shaileshkumar K.N.	Training in MRI	22 Aug-3 Sept 2011, Tata Memorial Hospital, Mumbai	Participants
71	Kumari Thankam	International Workshop on the Development of the Indian care pathway	11-15 Apr 2011, Bangalore	Participant
72	Kumari Thankam, Chandrika D, Lizyamma Jacob, Raveendran Nair R., Sreelekha R, Sudha P.	FOCUS 2011: National Workshop on Implementation of NABH Standards in Hospitals	9 Apr 2011, SCTIMST, Thiruvananthapuram	Participants

73	Kusumakumary P.	15th Annual National Conference of The Pediatric Hematology Oncology Chapter of Indian Academy of Paediatrics	26-27 Nov 2011, Mumbai.	Talks: 1. R.V. Lokeshwar memorial oration – 'Establishment of Pediatric Oncology unit in RCC'. 2. 'Langerhans cell histiocytosis in children: 22 years experience'.
74	Lakshmi S.	Fourth International Conference on Translational Cancer Research: Recent Developments in Cancer Prevention	16– 19 Dec 2011, Udaipur, Rajasthan	Paper: 'Cytotoxicity, apoptosis, and DNA damage induced by 5,7- dihydroxyflavone, a flavonoid from <i>Alpinia galanga</i> '.
75	Lakshmi Thampi	31st Annual Convention of Indian Association of Cancer Research and International Symposium on Cancer Genomics.	26-29 Jan 2012, Navi Mumbai	Poster: 'Association of CYP17A1 (A>G) rs743572 gene polymorphism with reproductive and lifestyle factors and breast cancer risk'.
76	Lizyamma Jacob	Hospital Sterile Service	10 Jan 2012, Academy of Medical Sciences, Pariyaram	Participant
77	Lizyamma Jacob, Bindhu Rani P.V.	Certificate Course on Infection Control	13-15 Oct 2011,	Participants
78	Madhu Muralee	KASICON 2011 :Annual Conference of Association of Surgeons Of India (Kerala chapter)	May 2011, Thiruvananthapuram	Talk: 'Blood and blood products in surgery'.
79	Madhu Muralee	Association of Surgeons of India National Conference	25-30 Dec 2011, Kochi	Video presentation: 'Modified radical mastectomy'.
80	Mallika Balakrishnan	PRS Silver Jubilee Critical Care Update	29 Jan 2012, Thiruvananthapuram	Participant
81	Mallika Balakrishnan, Sudha P.	'Swasthi': CME Programme on Anaesthesiology	10 Apr 2011, Department of Anaesthesiology, SUT group of Hospitals, Thiruvananthapuram	Participants
82	Mallika Balakrishnan, Sudha P.	Indian Society for Critical Care Medicine: Intensive Care Update	25 Sept 2011, Thiruvananthapuram	Participants

83	Manu M. Joseph	Fourth International Conference on Translational Cancer Research: Recent Developments in Cancer Prevention	16– 19 Dec 2011, Udaipur, Rajasthan	Paper: 'Evaluation of the anticancer and immunomodulatory properties of polysaccharide PST001- capped gold nanoparticles'.
84	Manu M. Joseph	ORIBIO 2012	29 Feb 2012, Thiruvananthapuram	Paper: 'PST- gold nanoparticles as an effective anticancer agent with immunomodulatory properties'.
85	Mary Thomas	India- Singapore International Conference on Breast Cancer	22-23 Jul 2011, Thiruvananthapuram	Poster: 'A prospective double blind randomized control trial to study the effectiveness of labetalol induced hypotensive anesthesia on intraoperative blood loss and visibility of operative field'. Awarded Best Poster presentation.
86	Nileena Nayak, Rekha A. Nair	CME on Next Generation Tissue Based Diagnostics	Feb 2012, Tata Memorial Hospital, Mumbai	Participants
87	Parameswaran S.	Breast Cancer Foundation of India Annual National Conference	Mar 2012, Kolkata	Inaugural address and chaired 2 sessions.
88	Paul Augustine, Shaji Thomas	Association of Surgeons of India National Conference	25-30 Dec 2011, Kochi	Participants
89	Paul Sebastian	State Level workshop for Dental Surgeons on Oral Cancer Prevention and Control.	May 2012, Thiruvananthapuram	Talk: 'Role of surgery in the management of oral cancers'.
90	Paul Sebastian	National Summit: Medical Education Challenges and Opportunities	September 2011, MCI, New Delhi	Participant
91	Paul Sebastian	Indian Association of Surgical Oncology National Conference	15-18 Sept 2011, Lucknow	Talk: 'Marginal mandibulectomy Vs segmental mandibulectomy for minimal bone involvement'.
92	Paul Sebastian	Tamil Nadu Cancer Surgeon Association Meeting	November 2011, Coimbatore	Talk: 'Salivary gland tumours'.

93	Paul Sebastian	Joint Meeting of the Asian Society of Head and Neck Oncology (ASHNO) and FHNO	6-9 Oct 2011, Goa	Talk: 'Management of early oral cavity cancers'.
94	Paul Sebastian	Association of Surgeons of India National Conference	25-30 Dec 2011, Kochi	Video presentation: 'Neck dissection'.
95	Paul Sebastian, Ramadas K.	Essentials of Head and Neck Onco Radiology,	25 Jan 2012, Mumbai	Participants
96	Paul Sebastian, Preethi Sara George	27th Annual Review Meeting of National Cancer Registry Programme (NCRP)	3-4 Nov 2011, Guwahati	Project Review Meeting
97	Paul Sebastian, Iqbal Ahamed, Jem Prabhakar, Shaji Thomas, Bipin T Varghese, Chandramohan K, Paul Augustine, Elizabeth M. Iype, Balagopal PG, Rema P, Suchetha S, Madhu Muralee, Arun Peter Mathew, Nebu A. George	South Zone CME of Indian Association of Surgical Oncology: Excellence in Cancer Surgery Through Innovations	9-10 Apr 2011, Thiruvananthapuram	Participants
98	Paul Sebastian, Iqbal Ahamed, Jem Prabhakar, Shaji Thomas, Bipin T Varghese, Paul Augustine, Elizabeth M. Iype, Balagopal PG, Rema P, Suchetha S, Madhu Muralee, Arun Peter Mathew, Nebu A. George	India- Singapore International Conference on Breast Cancer	22-23 Jul 2011, Thiruvananthapuram	Participants
99	Preethi Sara George	National Workshop on Statistical applications in Bio-medical field (UGC sponsored programme)	25th Jan 2012, NSS College for Women, Thiruvananthapuram	Talk: 'Use of advanced computing packages- SPSS and SAS'.
100	Preethi T.R., Sujathan K.	CYTOCON 2011: 40th Annual Conference of Indian Association of Cytology	10-13 Nov 2011, Dharwad	Participants

101	Priyakumari T.	15th Annual National Conference of The Pediatric Hematology Oncology Chapter of Indian Academy of Paediatrics	26-27 Nov 2011, Mumbai.	Talk: 'Molecular analysis of TEL-AML1, BCR-ABL, MLL-AF4 and E2A – PBX fusion gene transcription in childhood B- lineage ALL of Kerala, South India showing under representation of TEL-AML fusion gene'.
102	Priyakumari T.	5th Annual Conference on Genetic and Molecular Diagnosis in Modern Medicine	26-29 Jan. 2012, SRM University, Chennai.	Talk: 'Fusion genes as prognostic predictors and early treatment outcome in childhood ALL'.
103	Priya Mary Jacob, Rekha A. Nair	Multicolor Immunophenotyping: Standardization and Applications	9-10 Mar 2012, Tata Memorial Hospital, Mumbai	Participants
104	Rachel Cherian Koshy	CME on ICU Care and Ventilation	23 Jul 2011, Medical College, Thiruvananthapuram	Participant
105	Rachel Cherian Koshy	India- Singapore International Conference on Breast Cancer	22-23 Jul 2011, Thiruvananthapuram	Faculty
106	Rachel Cherian Koshy	Anaesthesia Update	25 June 2011, SUT Royale Hospital, Thiruvananthapuram	Chaired session: 'Management of perioperative complications in ischaemic heart diseases'.
107	Rachel Cherian Koshy	Scientific session at ISA City Branch Meeting	15 Jul 2011, Thiruvananthapuram	Chaired session: 'Bilateral ultrasound guided interscalene nerve block and massive transfusion in an onco-surgical patient'.
108	Raghukumar P., Saju B, Thayal Singh Elias	Annual Conference of Association of Medical Physicists of India.	16-19 Nov 2011, CMC, Vellore.	Participants
109	Raghu Ram K. Nair	Annual Conference of Association of Medical Physicists of India.	16-19 Nov 2011, CMC, Vellore.	Talk: 'Imaging for radiation oncology'.
110	Ramadas K.	Advances in Oncology: Navigate the New	18 Feb 2012, Kovalam, Thiruvananthapuram	Invited Speaker
111	Ramadas K.	Programme on Domestic Enquiry, Disciplinary Action & How to Manage Employment Separations Lawfully	16-18 Jan 2012, Institute of Public Administration, Thiruvananthapuram	Participant

112	Ramani S.Wesley	National Conference on Tobacco or Health	23-25 Sept 2010, Mumbai	Paper: 'Effectiveness of antitobacco awareness programmes conducted among adolescent students of rural Kerala State'.
113	Rari P.Mony	67th Annual Conference of Indian Association of Pathologists and Microbiologists, Kerala Chapter Meeting	13 Aug 2012, Perinthalmanna	Poster: 'Melanotic neurectodermal tumor of infancy: a rare site – a case report'.
114	Rari P.Mony	68th Annual Conference of Indian Association of Pathologists and Microbiologists, Kerala chapter meeting	11 Feb 2012, Thiruvananthapuram	Paper: 'Rhabdomyosarcoma of female genital tract: a six year study'.
115	Rari P.Mony, Sindhu Nair P.	CALIPATH 2011: CME for Post-graduates	Oct 2011, Kozhikode	Participants
116	Raveendran Pillai K.	31st Annual Convention of the Indian Association of Cancer Research and International symposium on Cancer Genomics and its impact in the Clinics	26-29 Jan 2012, Navi Mumbai	Participant
117	Rekha A. Nair	APCON 2011: 60th Annual Conference of Indian Association of Pathologists and Microbiologists Symposium on cutaneous lymphomas	2-4 Dec 2011, Punjab	Faculty
118	Rekha A. Nair	Annual Conference of the Cytometry Society of India	Oct 2011, Chandigarh	Participant
119	Rema P.	CME on Gynecologic Cancers	October 2011, Alapuzha	Talk: 'Lymphadenectomy in ovarian cancers'.
120	Remani P.	31st Annual Convention of the Indian Association of Cancer Research and International symposium on Cancer Genomics and its impact in the Clinics	26-29 Jan 2012, Navi Mumbai	Paper: 'Antimicrobial, antioxidant, anti-proliferative and apoptosis inducing properties of active principles from Curcuma zedoaria rhizomes'.

121	Sangeetha Vijay	Fourth International Conference on Translational Cancer Research: Recent Developments in Cancer Prevention	16– 19 Dec 2011, Udaipur, Rajasthan	Poster: 'bcr-abl gene mutation and amplification status in imatinib resistant patients: a preliminary south Indian study.'
122	Sangeetha Vijay	International Conference on Advances in Biological Sciences (ICABS)	15-17 Mar 2012, Kannur	Poster: 'Prognostic significance of the cryptic sub-microscopic rearrangements of derivative 9 chromosome in chronic myeloid leukemia.'
123	Santhi S.	31st Annual Convention of the Indian Association of Cancer Research and International symposium on Cancer Genomics and its impact in the Clinics	26-29 Jan 2012, Navi Mumbai	Paper: 'FLT3-ITD mutation status strongly correlated with elevated WBC count, LDH and peripheral blasts in AML patients with normal karyotype'.
124	Shaji Thomas	KASICON 2011 :Annual conference of Association of Surgeons Of India (Kerala chapter)	May 2011, Thiruvananthapuram	Participated in the operative workshop
125	Shaji Thomas	Association of Plastic Surgeons of India, Trivandrum Chapter Meet	May 2011, Thiruvananthapuram	Talk: 'Locoregional flaps in head and neck reconstruction'.
126	Shaji Thomas	SIOSAL2011: Association of ENT Surgeons of India, Kerala Meet	Dec 2011, Thiruvananthapuram	Talk: 'Malignant salivary gland tumors'.
127	Shijikumary N.G.	Strategic Management of Swallowing Disorders	26 Nov 2011, Technopark, Thiruvananthapuram	Participant
128	Shijikumary N.G.	Swallowing issues in Head and Neck cancer	27 Feb 2012, AIMS, Kochi	Participant
129	Shridhan Anand Patil	CYTOCON 2011 : 40th Annual Conference of Indian Association of Cytology	10-13 Nov 2011, Dharwad	Poster: 'Candida: Not so candid'.
130	Shridhan Anand Patil	67th Annual Conference of Indian Association of Pathologists and Microbiologists, Kerala Chapter Meeting	13 Aug 2011, Perinthalmanna	Poster: 'MALT lymphoma thyroid: a case report with review of literature'.
131	Shridhan Anand Patil	68th Annual Conference of Indian Association of Pathologists and Microbiologists, Kerala Chapter Meeting	11 Feb 2012, Thiruvananthapuram	Poster: 'B-lymphoblastic lymphoma- uterus'.

132	Sindhu Nair P.	Insight 2012: Annual CME on Bone Tumours	12 Mar 2012, Thiruvananthapuram	Participant
133	Sithara Balakrishan	Infection Control Certification Programme	13-16 May 2011, AIMS, Kochi	Participant
134	Sivadas V.P.	Fourth International Conference on Translational Cancer Research: Recent Developments in Cancer Prevention.	16-19 Dec 2011, Udaipur	Paper: 'Novel TGFBR2 transcripts and SMAD3 mutations in oral carcinoma'.
135	Sivakumari P.R.	Volunteer Training Program on Palliative Care	19 Feb 2012, IMA, Thiruvananthapuram	Talk: 'Care of fungating wound and lymphoedema care'.
136	Smitha P. Nair	CYTOCON 2011: 40th Annual Conference of Indian Association of Cytology	10-13 Nov 2011, Dharwad	Poster: 'Two cases of chondroblastoma diagnosed by cytology'.
137	Smitha P. Nair	67th Annual Conference of Indian Association of Pathologists and Microbiologists, Kerala Chapter Meeting	13 Aug 2012, Perinthalmanna	Poster: 'A case of pulmonary hamartoma'.
138	Smitha P. Nair	68th Annual Conference of Indian Association of Pathologists and Microbiologists, Kerala Chapter Meeting	11 Feb 2012, Thiruvananthapuram	Poster: 'Two cases of juvenile myelomonocytic leukemia'.
139	Sreeja R.	New Horizons in Biotechnology (NHBT-2011)	21-24 Nov 2011, NIIST, Thiruvananthapuram	Poster: 'Distribution of multidrug resistance gene polymorphisms in ovarian tumors'.
140	Sreelekha R.	State Level Conference on Quality Cancer Care: Newer Perspectives	10 Dec 2011, Regional Cancer Centre, Thiruvananthapuram	Talk: 'Quality cancer care'.
141	Sreelekha R.	GFTAM Sensitization Programme for Nursing Officers	17 Dec 2011, College of Nursing, Thiruvananthapuram	Participant
142	Sreelekha R.	Contract Labour (R & A) act 1970	12 Jan 2012, National Institute of Personnel Management, Thiruvananthapuram Chapter	Participant
143	Sreelekha R.	Volunteer Training Program on Palliative Care	19 Feb 2012, IMA, Thiruvananthapuram	Talk: 'Care of patients after cancer treatment'.
144	Sreelekha R.	Management Techniques for Nurse Administrators	22 Mar 2012, Kerala Nurses and Midwives Council, Thiruvananthapuram	Talk: 'Quality nursing care'.

145	Sreelekha T.T.	Refresher Course in Life Sciences: Academic Staff College, University of Kerala	3 June 2011, Thiruvananthapuram	Talks: 1. 'Cancer: a general perspective'. 2. 'Anticancer plant polysaccharides'.
146	Sreelekha T.T.	Administrative Staff College of India, Techno-Scientific Management Programme for Scientists	1 – 12 Aug 2011, Hyderabad	Participant
147	Sreelekha T.T.	ORIBIO 2012	29 Feb 2012, Thiruvananthapuram	Participant
148	Suchetha S.	CME 2011: Matha Hospital Kottayam	October 2011, Kottayam	Talk: 'Abnormal pap smear: What next?'.
149	Suchetha S.	KIMS Pinnacle Cancer Updates on Cancer Cervix	April 2011, Thiruvananthapuram	Talk: 'Surgery for early carcinoma cervix'.
150	Sudha P.	FOCUS 2010: National Conference on Hospital Administration	7-8 Aug 2010, Thiruvananthapuram	Participant
151	Sudha P, Venugopal A.	NIZVAS: Mechanical ventilation-Basics and Beyond	23-24 July 2011, Thiruvananthapuram	Participant
152	Sumod Mathew Koshy	Radio-imaging 2012: IRIA State Annual Conference	3 Mar 2012, Kochi	Talk: 'Stereotactic breast biopsy'.
153	Sumod Mathew Koshy	India- Singapore International Conference on Breast Cancer	22-23 Jul 2011, Thiruvananthapuram	Panelist: 'Breast conservation'. Talk: 'Stereotactic breast biopsy'.
154	Sunilkumar S.	Annual Conference of Radiation Therapy Technologists of India	12-13 Nov 2011, Rajkot, Gujarat	Chaired session
155	Sureshkumar R.	Fourth International Conference on Translational Cancer Research: Recent Developments in Cancer Prevention.	16-19 Dec 2011, Udaipur	Poster: 'Comparison of cytogenetics and molecular cytogenetics in the detection of chromosome abnormalities in acute myeloid leukemia'.
157	Susan Mathews	TMH-Women's Cancer Initiative: 9th Annual Conference in Breast & Gynaecological Cancer	Oct 2011, Mumbai	Participant

157	Susan Mathews	AROI-ESTRO Teaching Course on Modern Treatment of Cervical Cancer with a Special Focus on 3D Image-based Brachytherapy	5-8 Mar 2011, Chandigarh	Participant
158	Swapna R. Nath	Fifth Triennial Conference of the Academy of Clinical Microbiologists & Pre Conference Seminar on Anti microbial Resistance : Role of the Clinical Microbiologist	15-16 Oct 2011, Thiruvananthapuram	Participant
159	Swapna R. Nath	CME on Emerging and Reemerging Infectious Diseases	10 Mar 2012, Alappuzha	Participant
160	Swapna R. Nath	Training programme in Tuberculosis Care under DOTs strategy organized jointly by RNTCP and IMA	3 Mar 2012, Thiruvananthapuram	Participant
161	Thomas Abraham	8th Annual National Scientific Seminar on Quality Awareness organised by Quality Council of India and Bio-Rad Laboratories	17 Nov 2011, Kochi	Participant
162	Thomas Abraham	VITROS Voice Programme	1 Dec 2011, Amala Institute of Medical Sciences, Thrissur	Paper: 'Evaluation of serum free light chain assessment in monoclonal gammopathy'.
163	Thomas Abraham	4th Vellore Coulter Series	16 -17 Sept 2011, New Delhi	Paper: 'Leukocyte VCS data in the diagnosis of leukemias and lymphoproliferative disorders'.
164	Venugopal A.	ACT-2011: Anaesthesia CME	19 June 2011, Thrissur	Participant
165	Venugopal A.	ISACON Kerala 2011: The South Zone & Annual State Conference of Indian Society of Anaesthesiologists	8- 9 Oct 2011,	Participant
166	Venugopal A.	CVC 2012: a CME on Ventilation	15 Jan.2012, Kochi	Participant
167	Vijayalakshmi K.	Indian Society of Blood Transfusion & Immunohaematology: ISBTI CME	30 Nov 2011, Kottayam	Paper: 'Stem cell transplantation'.

ONGOING RESEARCH PROJECTS

EXTRAMURAL

Sl. No.	Principal Investigator	Project Title	Funded by	Status
BREAST				
1	Beela Sarah Mathew	ATLAS: tamoxifen Longer Vs Shorter.	Oxford University	Ongoing
2	Beela Sarah Mathew	Risk factors for breast cancer in India: an INDOX case-control study.	Oxford University	Ongoing
3	Ramadas K.	Randomised controlled evaluation of clinical early detection in the control of breast cancer in low-and medium- resource settings.	IARC, Lyon, France	Ongoing
CHEST & GASTRO-INTESTINAL				
4	Chandramohan K.	Tumour primordial cells in colorectal cancer: implications for surgical margins and minimal residual disease.	Dept. of Biotechnology, Govt. of India	Ongoing
5	Chandramohan K.	Case control study of association with lifelong vegetarianism and risk colorectal cancer in India	Indox Group, UK	Ongoing
6	Sajeed A.	Aspirin for Dukes C and high risk Dukes B colorectal cancers: An international, multi-centre, double blind, randomised placebo controlled phase 3 trial.	Singapore Clinical Research Institute, Singapore	Ongoing
GYNAEC & GENITO-URINARY				
7	Paul Sebastian	A study on role of cold coagulation in the management of cervical intraepithelial neoplasia.	IARC ,WHO Lyon, France	Ongoing
8	Suchetha S.	Non-invasive detection of cervical malignancies using diffuse reflectance imaging and fluorescence/ reflectance point monitoring techniques	Dept. of Biotechnology, Govt. of India	Ongoing
HAEMATOLOGICAL, LYMPHORETICULAR, BONE & SOFT TISSUE				
9	Geetha N.	Cytogenetic and molecular response to imatinib in patients with chronic myeloid leukemia.	Kerala State Council for Science, Technology & Environment	Ongoing
HEAD & NECK				
10	Balagopal P.G.	Molecular and genetic approach to understand the pathogenesis of thyroid cancer.	I. Institute of Genomics and Integrative Biology, Govt. of India	Ongoing
11	Bipin T.Vargheese	Development of a strategy for comprehensive post laryngectomy rehabilitation: a Kerala perspective.	Kerala State Council for Science, Technology & Environment	Completed

12	Paul Sebastian	Molecular ecology, molecular genetics and natural history of anterior tongue cancer in young adults without (or insignificant) tobacco exposure: can a distinct clinical entity be defined?	Dept. of Biotechnology, Govt. of India	Ongoing
13	Paul Sebastian	Phase 2, double – blind, placebo controlled randomized study of sulindac, a pan – COX inhibitor in oral premalignant lesions.	Memorial Sloan Kettering Cancer Centre, New York	Ongoing
14	Paul Sebastian	Phase 3, double blind, placebo controlled study of post-operative adjuvant concurrent chemo-radiotherapy with or without nimotuzumab for stage 3/4 head and neck squamous cell carcinoma.	National Cancer Centre, Singapore	Ongoing
15	Ramadas K.	Cluster randomized controlled trial of oral cancer screening.	IARC, Lyon, France	Ongoing
16	Ramadas K.	Estimation of tobacco attributable mortality in Kerala.	IARC, Lyon, France	Ongoing
17	Ramadas K.	Clinical and patho-biological effects of curcumin on oral leukoplakia: a double blind placebo controlled randomized trial.	Dept. of Biotechnology, Govt. of India	Ongoing
18	Ramadas K.	Role of human papillomavirus infection and other co-factors in the aetiology of head and neck cancer in Europe and India	IARC, Lyon, France	Ongoing
PAEDIATRIC ONCOLOGY				
19	Kusumakumary P.	Indian Paediatric Oncology Initiative	Jiv Daya Foundation	Ongoing
20	Priyakumari T.	Molecular genetics of paediatric acute lymphoblastic leukemia in Kerala	Kerala State Council for Science, Technology & Environment	Ongoing
PALLIATIVE MEDICINE				
21	Cherian M. Koshy	Indian Palliative Care Initiative	Jiv Daya Foundation	Ongoing
PATHOLOGY				
22	Anitha Mathews	Classification of breast carcinoma based on immunohistochemical profile and its correlation with histomorphological features and clinical outcome.	Kerala State Council For Science, Technology & Environment.	Ongoing
23	Rekha A. Nair	Micro RNA (miRNA) profiling in leukemias and lymphomas.	Dept. of Biotechnology, Govt. of India	Completed
24	Sujathan K.	Identification of biomarkers for thyroid cancer.	Dept. of Biotechnology, Govt. of India	Ongoing
25	Sujathan K.	Medical image analysis for cervical cancer	Dept. of Information Technology, Govt. of India	Ongoing
26	Sujathan K.	Proteome analysis of squamous cell carcinoma and its precursor lesions of cervix.	Kerala State Council For Science, Technology & Environment	Ongoing

CANCER EPIDEMIOLOGY				
27	Aleyamma Mathew	Population Based Cancer Registry, Thiruvananthapuram.	ICMR, Govt. of India	Ongoing
28	Aleyamma Mathew	Rural Cancer Registry, Thiruvananthapuram	Finnish Cancer Society, Finland	Ongoing
29	Aleyamma Mathew	Risk factors of bladder and kidney cancers: a case-control study.	Kerala State Council for Science, Technology & Environment	Ongoing
30	Kalavathy M.C.	Thiruvananthapuram Corporation cancer control programme.	Thiruvananthapuram Corporation	Ongoing
31	Kalavathy M.C.	Role of cervical HPV infection in progression or regression of a Pap smear diagnosis of atypical squamous cells among women attending the Gynaec OPD of Women & Children Hospital, Thycaud, Thiruvananthapuram.	Kerala State Council for Science, Technology & Environment	Ongoing
32	Kalavathy M.C.	Cancer Vimuktha Sthree Samooam: a project on cancer control of women in the district of Thiruvananthapuram	Thiruvananthapuram Jilla Panchayath	Ongoing
33	Paul Sebastian	Pattern of care and survival studies on cancers of cervix, female breast and head and neck cancers.	ICMR, Govt. of India	Ongoing
34	Paul Sebastian	Hospital Based Cancer Registry.	ICMR, Govt. of India	Ongoing
CANCER RESEARCH				
35	Hariharan S.	Molecular genetic basis of resistance to IM treatment in CML	Kerala State Council for Science, Technology & Environment	Ongoing
36	Kannan S.	Study on the significance of Micro-RNA expression pattern in oral carcinoma: Phase II: Validation of microarray results and assessment of its prognostic significance.	Dept. of Biotechnology, Govt. of India	Ongoing
37	Kannan S.	Knockdown studies to elucidate the mechanism of cyclin D1 over-expression and exploration of its therapeutic implication in oral carcinoma.	Kerala State Council for Science, Technology & Environment	Ongoing
38	Remani P.	Evaluation of the anti-tumor and immunomodulatory properties of deoxy elephantopus and isodeoxy elephantopus isolated from Elephantopus scaber.	Kerala State Council for Science, Technology & Environment	Ongoing
39	Sreelekha T.T.	Elucidation of the molecular mechanism of mitotic inhibition by polysaccharide PST001 in human cancer cell lines.	Life Sciences Research Board, DRDO, Govt. of India	Ongoing
40	Sreelekha T.T.	Preparation and characterization of nanoparticles from antitumor polysaccharide PST001 and elucidation of its pharmacokinetics.	Kerala State Council for Science, Technology & Environment	Ongoing

41	Sreelekha T.T.	Development of a microarray biochip to detect chromosomal translocations in leukaemia.	Kerala State Council for Science, Technology & Environment	Ongoing
COMMUNITY ONCOLOGY				
42	Gigi Thomas	Randomised controlled trial of oral cancer screening by mouth examination in Kerala, India.	IARC, Lyon, France	Ongoing
43	Jayakrishnan R.	Tobacco Cessation Clinic Project	World Health Organisation	Ongoing
44	Jayakrishnan R.	Randomised controlled trial for evaluating the effectiveness of community based tobacco cessation strategies in Kerala State.	Part funding from Tobacco Cessation Project	Ongoing
45	Ramani S. Wesley	Evaluation of early detection of cervical cancer precursors by visual inspection with Lugol's iodine (VILI), visual inspection with acetic acid (VIA) and magnified VIA (VIAM) in Kerala, India.	IARC, Lyon, France & Bill Gates Foundation	Ongoing
46	Ramani S. Wesley	Cervical cancer screening using VIA, VILI for women in the control area of Trivandrum breast cancer screening project.	IARC, Lyon, France	Ongoing
47	Sreekumar C.	Prevention and control of cancer among the tribal population of Kerala state.	Kerala State Development Corporation for SC & ST	Ongoing
48	Sreekumar C.	Cancer control programmes in Palakkad district.	Kerala State Development Corporation for SC & ST	Ongoing
INFORMATION SYSTEMS				
49	Paul Sebastian	Development of data management system for oncology.	Dept. of Information Technology, Govt. of India	Ongoing
MOLECULAR MEDICINE, DRUG DEVELOPMENT AND CHEMO-INFORMATICS				
50	Lakshmi S.	Gene-environment interaction and breast cancer risk.	Dept. of Science & Technology, Govt. of India	Completed
51	Lakshmi S.	Role of stat3 as downstream mediator of steroid and epidermal growth factor pathways in breast cancer.	ICMR, Govt. of India	Completed
52	Lakshmi S.	Role of EGFR signaling in breast cancer.	Kerala State Council for Science, Technology & Environment	Ongoing
53	Lakshmi S.	Implications of mdr1 gene polymorphisms and p-glycoprotein expression in ovarian cancer in relation to treatment response	Board of Studies in Nuclear Sciences (BRNS)- Dept of Atomic Energy	Ongoing
NATURAL BACKGROUND RADIATION CANCER REGISTRY				
54	Hariharan S.	Cytogenetic studies on the effects of chronic low level radiation in the residents of high background radiation areas (HBRA) in Kerala, India.	Health Research Foundation, Japan	Ongoing
55	Jayalekshmi P.	Prevention & Cancer Control among scheduled caste people	Jilla Panchayath, Kollam	Ongoing

56	Jayalekshmi P.	Prevention and cancer control among female coir workers	Jilla Panchayath, Kollam	Ongoing
57	Jayalekshmi P.	Cancer detection and cancer patients service projects	Grama Block Panchayats Karunagapally Taluk	Ongoing
58	Jayalekshmi P.	Socio demographic survey and cancer incidence & mortality studies	BARC, Govt. of India	Ongoing
59	Jayalekshmi P.	Socio demographic survey & cancer incidence studies.	Health Research Foundation, Japan	Ongoing
60	Paul Sebastian	District Cancer Registry.	ICMR, Govt. of India	Ongoing
61	Raghu Ram K. Nair	Natural Background Radiation Registry (NBRR): Radiation measurement of Sakthikulangara, Poothakulam, Mayyanad and Paravur:	BARC, Mumbai	Ongoing
62	Raghu Ram K. Nair	Natural Background Radiation Registry (NBRR): Individual & ingested dose estimation	Health Research Foundation, Japan	Ongoing
63	Raghu Ram K. Nair	Strengthening the research programmes in HBRA Kerala, India: extension of studies to Kollam	BARC, Govt. of India	Ongoing
64	Sreekumar A.	Thyroid nodularity studies.	Health Research Foundation, Japan	Ongoing

PHARMA/INDUSTRY SPONSORED

Sl. No.	Principal Investigator	Project title	Funded by	Status
BREAST				
1	Asha Arjunan	Phase III study of vinflunine plus gemcitabine versus gemcitabine plus paclitaxel in patients with unresectable, locally recurrent or metastatic breast cancer after prior anthracycline-based adjuvant chemotherapy	Pierre-Fabre Medicament	Ongoing
2	Beela Sarah Mathew	A phase 3 study of vinflunine plus capecitabine versus capecitabine alone in patients with advanced breast cancer previously treated with or resistant to an anthracycline and who are taxane resistant.	Pierre-Fabre Medicament	Ongoing
3	Beela Sarah Mathew	A randomized, multi-centre, open-label, phase III study of adjuvant lapatinib, trastuzumab, their sequence and their combination in patients with HER2/ErbB2 positive primary breast cancer (ALTT0) in collaboration with Breast International Group.	Glaxo Smith Kline	Ongoing
4	Beela Sarah Mathew	Epoetin alpha versus standard supportive care in anaemic patients with metastatic breast cancer receiving first line standard chemotherapy: Phase 3 randomised, open label, multicentric study.	Johnson & Johnson	Ongoing
5	Ratheesan K.	An open label, phase II trial of BIBW 2992 (afatinib) in patients with metastatic HER2-overexpressing breast cancer failing HER2-targeted treatment in the neoadjuvant and/or adjuvant treatment setting.	Boehringer Ingelheim	Ongoing
6	Ratheesan K.	A randomized, double-blind, parallel-group, multicentre, phase 3 study comparing the efficacy and tolerability of fulvestrant (FASLODEX) 500mg with fulvestrant (FASLODEX) 250mg in post menopausal women with oestrogen receptor positive advanced breast cancer progressing or relapsing after previous endocrine therapy.	Astra Zeneca	Ongoing
7	Ratheesan K.	An open label, randomized, parallel-group, multicentre study to compare Zoladex 10.8 mg given every 12 weeks with Zoladex 3.6mg given every 4 weeks in pre menopausal women with oestrogen receptor positive advanced breast cancer.	Astra Zeneca	Ongoing
8	Ratheesan K.	A phase II, randomised, double-blind, placebo-controlled, multi-centre study to assess the efficacy and safety of AZD8931 in combination with Anastrozole, compared to Anastrozole alone, in post-menopausal women with hormone receptor-positive, endocrine therapy-naïve, locally-advanced or metastatic breast cancer (MIINT).	Astra Zeneca	Ongoing

CHEST & GASTRO-INTESTINAL

9	Naveen B.	A prospective, non-interventional cohort survey on VTE risk in patients receiving new chemotherapy for cancer	Sanofi-Aventis	Ongoing
10	Naveen B.	Phase II clinical trial of immunotherapy with an allogenic B7.1/HLA-A1 transfected tumour cell vaccine in patients with stages IIIB/IV non-small cell lung cancer that have completed first line chemotherapy.	Pique	Ongoing
11	Sajeed A.	A dose tolerability and efficacy study of RX-0201 plus gemcitabine in metastatic pancreatic Cancer	Rexahn	Ongoing
12	Sajeed A.	A randomized, double-blind, multi-center phase 3 study of brivanib versus sorafenib as first-line treatment in patients with advanced hepatocellular carcinoma. (The BRISK FL Study).	Bristol Myers Squibb	Ongoing
13	Sajeed A.	Randomized, phase 3b, multi-centre, open label, parallel study of enoxaparin (low molecular weight heparin) given concomitantly with chemotherapy versus chemotherapy alone in patients with inoperable gastric and gastro-esophageal cancer.	Thrombosis Research Institute	Ongoing
14	Sajeed A.	A phase 3, study of premetrexed, cisplatin and radiotherapy followed by consolidation premetrexed versus etoposide, cisplatin, and radiotherapy followed by consolidation cytotoxic chemotherapy of choice in patients with unresectable, locally advanced, stage 3 non-small lung cancer other than predominantly squamous cell histology.	Eli Lilly	Ongoing
15	Sajeed A.	A randomized, double-blind, multicentre phase3 study of irinotecan, folinic acid and 5-fluorouracil (FOLFIRI) plus ramucirumab or placebo in patients with metastatic colorectal carcinoma progressive during or following first-line combination therapy with bevacizumab, oxaliplatin, and a fluoropyrimidine.	Eli Lilly	Ongoing
16	Sivanandan C. D.	Phase I / 2 study of premetrexed (Alimta) plus carboplatin or premetrexed cisplatin with concurrent radiation therapy followed by every 21-day premetrexed consolidation in patients with favorable prognosis in operable stage 3A/B non-small cell lung cancer.	Eli Lilly India	Completed
17	Sivanandan C. D.	EGF1 I0656: A phase 3 study of ERBB2 positive advanced or metastatic gastric or esophageal or gastroesophageal junction adenocarcinoma treated with capecitabine plus oxaliplatin with or without lapatinib.	Glaxo Smithkline	Ongoing

18	Sivanandan C. D.	Multicentre, randomized, double-blind, phase 3 trial to investigate the efficacy and safety of oral BIBF 1120 plus standard docetaxel therapy compared to placebo plus standard docetaxel therapy in patients with stage 3B/4 or recurrent non-small cell lung cancer after failure of first line chemotherapy.	Boehringer Ingelheim	Ongoing
19	Sivanandan C. D.	A phase 3, randomized, double-blinded study of IMC-1121B and best supportive care (BSC) Versus placebo and BSC in the treatment of metastatic gastric or gastroesophageal junction adenocarcinoma following disease progression on first-line platinum- or fluoropyrimidine containing combination therapy.	IMCLONE	Ongoing
20	Sivanandan C. D.	A phase 3, randomized, double-blind, phase 3 of docetaxel and ramucirumab versus docetaxel and placebo in the treatment of stage IV non-small cell lung cancer following disease progression after one prior platinum-based therapy.	Eli Lilly	Ongoing
21	Sivanandan C. D.	A phase II/III, multi-center, randomized controlled study to compare the efficacy and safety of gemcitabine alone vs. ON 01910.Na combined with gemcitabine in patients with previously untreated metastatic pancreatic cancer.	Onconova	Ongoing
GYNAEC & GENITO-URINARY				
22	Francis V, James	Multicentre, single-arm, open label clinical trial intended to provide early access to cabazitaxel in patients with metastatic hormone refractory prostate cancer previously treated with a docetaxel-containing regimen and to document safety of cabazitaxel in these patients.	Sanofi Aventis	Ongoing
23	Francis V James	An observational study to evaluate the PSA response and safety of docetaxel in patients with hormone refractory prostate cancer.	Sanofi aventis	Ongoing
25	Jayaprakash P.G.	A randomized double-blind phase 3 trial comparing docetaxel combined with dasatinib to docetaxel combined with placebo in castration-resistant prostate cancer	Bristol Myers Squibb	Ongoing
26	Jayaprakash P.G.	Project ID: AMGEN 20050103: A randomized, double-blind, multicentre study of denosumab compared with zoledronic acid (Zometa) in the treatment of bone metastases in men with hormone-refractory prostate cancer.	Amgen	Ongoing
27	Jayaprakash P.G.	Project ID: AMGEN 20050147: A randomized, double-blind, placebo-controlled, multicentre phase 3 study of denosumab on prolonging bone metastasis-free survival in men with hormone-refractory prostate cancer.	Amgen	Ongoing

HAEMATOLOGICAL, LYMPHORETICULAR, BONE & SOFT TISSUE

25	Geetha N.	A phase 3 clinical study to investigate the prevention of relapse in lymphoma using daily enzastaurin.	Eli Lilly	Ongoing
26	Geetha N.	An open-label, randomized, multicentre phase 3 trial of dasatinib versus standard dose imatinib (400 mg) in the treatment of subjects with newly diagnosed chronic phase philadelphia chromosome positive chronic myeloid leukemia.	Bristol Myers Squibb	Ongoing
27	Geetha N.	MK-0683-088-An International, multicenter, randomized, double blind study of vorinostat (MK-0683) or placebo in combination with bortezomib in patients with multiple myeloma (Merck Myeloma 088 Study)	Merck	Completed
28	Geetha N.	A phase II study of dasatinib therapy in children and adolescents with newly diagnosed chronic phase chronic myelogenous leukemia or with Ph+ leukemias resistant or intolerant to imatinib.	BMS	Ongoing
29	Prakash N.P.	WORLD observational registry collecting longitudinal data on the management of chronic myelogenous leukemia patients.	Novartis	Completed
30	Sreejith G. Nair	Protocol: AP23573-07-302: A pivotal trial to determine the efficacy and safety of AP23573 when administered as maintenance therapy to patients with metastatic soft-tissue or bone sarcomas.	Kendle	Completed
HEAD & NECK				
31	Rejnish Kumar R.	A randomised, double-blind, placebo-controlled, multicentre, phase 2 study of oral lapatinib in combination with concurrent radiotherapy and cisplatin versus radiotherapy and cisplatin alone, in subjects with stage III and IVA, B squamous cell carcinoma of the head and neck.	Glaxo Smithkline	Ongoing
32	Rejnish Kumar R.	A randomised, double-blind placebo-controlled, multicentre, phase 3 study of post-operative adjuvant lapatinib or placebo and concurrent chemo-radiotherapy followed by maintenance lapatinib or placebo monotherapy in high risk subjects with resected squamous cell carcinoma of head and neck.	Glaxo Smithkline	Ongoing
33	Rejnish Kumar R.	An open label, multicentre phase 2 study to evaluate efficacy and safety of P276-00 in Indian subjects with recurrent, metastatic or unresectable locally advanced squamous cell carcinoma of head and neck.	Piramal Life Sciences	Ongoing

34	Rejnish Kumar R.	A phase III, open label, randomised, multi-centre study of the effects of leukocyte interleukin injection [Multikine] plus standard of care (surgery + radiotherapy or surgery + concurrent chemoradiotherapy) in subjects with advanced primary squamous cell carcinoma of oral cavity/ soft palate versus standard of care only.	Cell Science	Ongoing
35	Rejnish Kumar R.	A phase III randomized trial of chemotherapy with or without panitumumab in patients with metastatic and/or recurrent squamous cell carcinoma of head and neck.	Amgen	Ongoing

IN-HOUSE PROJECTS

Sl. No.	Principal Investigator	Project title	Status
ANAESTHESIOLOGY			
1	Bhagyalakshmi R.	Comparison of butorphanol nasal spray and IV fentanyl for insertion of supraglottic airway device.	Ongoing
2	Mallika Balakrishnan	Comparison of the protective effects of intracuff alkalised lignocaine Vs air on tracheal tube induced emergence phenomenon and post operative sore throat.	Completed
3	Mallika Balakrishnan	A comparison of Malampatti classification and upper lip bite test in predicting difficult intubation.	Ongoing
4	Mary Thomas	Sensitivity of the Palm Print sign in prediction of difficult laryngoscopy in diabetics: A comparison with other airway indices.	Ongoing
5	Mary Thomas	A double blind randomized control trial to study the efficacy of a single dose intravenous magnesium sulphate in preventing post operative pain in patients undergoing mastectomy.	Ongoing
6	Rachel Cherian Koshy	Efficacy of paravertebral block in pain relief in patients undergoing breast surgery under general anaesthesia.	Ongoing
7	Sudha P.	Comparison of the effect of two doses of rocuronium bromide on intubating conditions.	
8	Venugopal A.	A comparison of the haemodynamic effects and quality of analgesia of a combination of 0.2% ropivacaine with fentanyl to bupivacaine 0.125% with fentanyl as continuous epidural infusion for post op analgesia following laparotomy. (DNB Thesis)	Ongoing
9	Venugopal A.	Effects of intravenous dexmedetomidine on perioperative haemodynamics and quality of emergence in patients undergoing head and neck surgery following general anaesthesia: A comparative randomized double blind placebo controlled study.	Ongoing
10	Venugopal A.	An evaluation of a single dose of oral gabapentin in attenuating haemodynamic responses to direct laryngoscopy and tracheal intubation	Ongoing
BREAST			
11	Beela Sarah Mathew	Results of breast conservative therapy at Regional Cancer Centre, Thiruvananthapuram. (DNB Thesis)	Ongoing

12	Parameswaran S.	Comparison of dosimetry using electron Vs tangential photon in postmastectomy chestwall irradiation,	Ongoing
GASTRO-INTESTINAL			
13	Chandramohan K.	Decomposition analysis of cost of treatment of patients being treated for cancer at RCC.	Completed
14	Chandramohan K.	Study of QOL in patients undergoing colorectal resection in RCC Thiruvananthapuram using FACT –C and EORTC Malayalam translations.	Completed
GYNAEC & GENITO-URINARY			
15	Francis V. James	Comparison of different schedules of radiation therapy in carcinoma cervix.	Ongoing
16	Jayaprakash P.G.	Implementation of image guided brachytherapy for locally advanced carcinoma cervix in a limited resource setting: A pilot study (DNB Thesis)	Ongoing
17	Jayaprakash P.G.	Accelerated fractionation in carcinoma cervix	Ongoing
HAEMATOLOGICAL & LYMPHORETICULAR			
18	Geetha N.	Clinical and prognostic significance of molecular factors in adult acute myeloid leukemia.	Ongoing
19	Geetha N.	Prospective study of melphalan, prednisolone and lenalidamide in the treatment of elderly patients with newly diagnosed multiple myeloma	Ongoing
20	Geetha N.	Prospective study of CDEP chemotherapy in patients with relapsed/refractory multiple myeloma	Ongoing
21	Geetha N.	Role of NFκB activation and target-gene expression in malignant lymphomas.	Ongoing
22	Lali V.S.	Clinical presentation and outcome of patients with Philadelphia chromosome positive acute lymphoblastic leukemia.	Ongoing
HEAD & NECK			
23	Bipin T. Varghese	Prospective randomized studies comparing the efficacy of watch and wait policy with neck dissection in clinical superficial tongue squamous cell cancers with N0 status.	Ongoing
24	Bipin T. Varghese	Salivary neoplasms: therapeutic and functional outcome: a retrospective study.	Ongoing
25	Bipin T. Varghese	Prospective study of treatment outcome in patients undergoing surgery for carcinoma larynx and hypopharynx.	Ongoing
26	Elizabeth Mathew lype	Selected molecular markers as indicators of clinical profile, tumor characteristics, and treatment outcome in squamous cell carcinoma of the larynx.	Ongoing
27	Elizabeth Mathew lype	Clinico pathological and molecular predictive factors of neck node metastasis in carcinoma larynx and hypopharynx and its oncological outcome: A retrospective analysis	Ongoing
28	Elizabeth Mathew lype	Thyroid gland involvement in carcinoma larynx and hypopharynx: Predictive factors and prognostic significance	Completed
20	Elizabeth Mathew lype	Tracheal resection for malignant diseases: surgical and functional results	Completed
30	Ramadas K.	Pilot study comparing two external beam radiotherapy schedules in oral cavity cancer.	Completed

PATHOLOGY			
31	Anitha Mathews	Immunohistochemical characterization of high grade ductal carcinoma breast and correlation of morphological features with special reference to basal phenotype (DNB Thesis)	Ongoing
32	Jayasree K.	Histological and immunohistochemical prognostic factors in paediatric osteosarcomas: a retrospective study. (DNB Thesis)	Ongoing
33	Nileena Nayak	Immunophenotyping of Hodgkin Lymphoma : Observational study (DNB Thesis)	Ongoing
34	Preethi T.R.	Diagnostic value of HBME-I and CK19 in the differential diagnosis of follicular lesions of thyroid in fine needle aspiration cytology. (DNB Thesis)	Ongoing
35	Preethi T.R.	Hepatocellular carcinoma versus metastatic adenocarcinoma to liver – A cytological observational study in correlation with clinical and radiological data. (DNB Thesis)	Ongoing
36	Thara Somanathan	Correlation and agreement between colposcopy and histological diagnosis in the early detection of cervical neoplasia (DNB Thesis)	Ongoing
CANCER EPIDEMIOLOGY			
37	Aleyamma Mathew	Nutritional risk factors of breast cancer: a case-control study.	Ongoing
38	Kalavathy M.C.	Papsmear screening programme, Women & Children Hospital, Thycadu.	Ongoing
39	Kalavathy M.C.	Papsmear screening programme, Govt. Hospital, Peroorkkada.	Ongoing
COMMUNITY ONCOLOGY			
40	Gigi Thomas	Search for predictive genetic markers of high-risk malignant transformation potential in oral leukoplakia patients.	Ongoing
41	Gigi Thomas	A multi-centre phase 2 randomised double-blind placebo efficacy and safety of curcumin in oral premalignant lesions.	Ongoing

PUBLICATIONS

JOURNAL ARTICLES	
1.	Abitha Murali; Sailasree, R.; Paul Sebastian; Rejnish Kumar, R.; Bipin T.Varghese; Kannan. S. , 'Loss of heterozygosity of D9S162: Molecular predictor for treatment response in oral carcinoma' Oral Oncology. 2011/47(7): 571-76
2.	Aleyamma Mathew; Daniel, Carrie R.; Ferrucci, Leah M.; Tulika Seth; Susan S. Devesa; Preethi Sara George; Hemali Shetty; Niveditha Devasenapathy; Susan Yurgalevitch; Tanuja Rastogi; Dorairaj Prabhakaran; Prakash C. Gupta; Nilanjan Chatterjee; Rashmi Sinha. 'Assessment of follow-up, and the completeness and accuracy of cancer case ascertainment in three areas of India' Cancer Epidemiology. 2011/35(4): 334-41
3.	Aravind, S.R.; Manu M. Joseph; Sheeja Varghese; Prabha Balaran; Sreelekha, T.T. 'Antitumour and immunopotentiating activity of polysaccharide PST001 isolated from the seed kernel of Tamarindus indica: an in vivo study in mice' Scientific World Journal. 2012/2012(1): 14 p. ID.361381
4.	Aravind, S.R.; Manu M. Joseph; Sheeja Varghese; Prabha Balaran; Sreelekha, T.T. 'Polysaccharide PST001 isolated from the seed kernel of Tamarindus indica induces apoptosis in murine cancer cells' International Journal of Life Science and Pharma Research. 2012/2(1) : 159-72
5.	Ashalatha, R.; Ramshekhar N. Menon; Hariharan, S.; Radhakrishnan, K.. 'The evolving electroclinical syndrome of 'epilepsy with ring chromosome 20'' Seizure. 2012/21(2): 92-97
6.	Bipin T.Varghese. 'Optimal design of a submental artery island flap' Journal of Plastic and Reconstructive Aesthetic Surgery. 2011/64(7): e183-e184
7.	Chandramohan, K.; Kiran C. Kothari. 'Role of diagnostic laparoscopy in assessing operability in borderline resectable gastrointestinal cancers' Journal of Minimal Access Surgery. 2012/8(2): 45-49
8.	Chandramohan, K.; Manoj Pandey; Sreerekha, K.R.; Paul Sebastian; Bejoy Cherian Thomas. 'Reliability of the Malayalam FACT-colorectal and predictors of QOL in patients with colorectal carcinoma' World Journal of Psychosocial Oncology. 2012/1: 19-28
9.	del Campo JM; Hitt, R.; Paul Sebastian; Carracedo, C; Lokanatha, D; Bourhis, J; Temam, S; Cupissol, D; De Raucourt, D.; Maroudias, N.; Nutting, C.M.; Comptom, N.; Midwinter, D.; Downie, L.; Biswas-Baldwin, N.; El-Hariry, I; Harrington, K.J.. 'Effects of lapatinib monotherapy: results of a randomized phase II study in therapy-naive patients with locally advanced squamous cell carcinoma of the head and neck' British Journal of Cancer. 2011/105(5): 618-27
10.	Elizabeth Mathew lype; Gigi Thomas; Jayakrishnan, R. 'Stereotactic radiosurgery' Kerala Dental Journal. 2012/35(1): 20-22
11.	Elizabeth Mathew lype; Sajith M. Babu; Pradeep; Gigi Thomas. 'Maxillary ameloblastoma: management in an oncology centre' World Journal of Pathology. 2012/1(1):
12.	Francis V. James. 'PET scan for prostate cancer' Indian Journal of Cancer. 2011/48(3): 372
13.	Francis V. James; Lijeesh, A.L.; Aswin Kumar; Sumod Mathew Koshy. 'Choriocarcinoma with brain involvement' Journal of Cancer Research and Therapeutics. 2011/7(3): 383-84
14.	Ganesh, B.; Swaminathan, R.; Aleyamma Mathew; Sankaranarayanan, R.; Hakama, M.. 'Loss-adjusted hospital and population-based survival of cancer patients. (In: Cancer survival in Africa, Asia, the Caribbean and Central America/ edited by R. Sankaranarayanan.- Lyon: France, 2011)' IARC Scientific Publications. 2011/162: 15-21
15.	Gigi Thomas. 'Role of dental professionals in prevention and control of oral cancer' Trivandrum Dental Journal. 2011/2(1): 27-31
16.	Gregoire, V; Hamoir, M; Chen, C; Kane, M; Kawecki, A; Julka, PK.; Wang, H.M.; Prasad, S; D'Cruz, A.K.; Radosevic-Jelic, L; Rejnish Kumar, R; Korzeniowski, S; Fijuth, J; Machiels, J.P; Sellers, M.V.; Tchakov, I.; Raben, D. Gefitinib plus cisplatin and radiotherapy in previously untreated head and neck squamous cell carcinoma: a phase II, randomized, double-blind, placebo-controlled study. Radiother Oncol. 2011/100(1):62-9
17.	Jayakrishnan, R.; Aleyamma Mathew; Uutela, Antti; Finne, Patrik. 'A community based smoking cessation intervention trial for rural Kerala, India' Asian Pacific Journal of Cancer Prevention. 2011/12(12): 3191-95

18.	Jayakrishnan, R. ; Seema, G.; Binukumar, B.; Sreekumar, C. ; Kamala, L. . 'Self-reported tobacco use, knowledge on tobacco legislation and tobacco hazards among adolescents in rural Kerala state' Indian Journal of Dental Research. 2011/22(2): 195-99
19.	Jayalekshmi, P. ; Gangadharan, P.; Paul Sebastian. 'Cancer survival in Karunagapally, India, 1991-1997. (In: Cancer survival in Africa, Asia, the Caribbean and Central America/ edited by R. Sankaranarayanan.- Lyon: France, 2011.)' IARC Scientific Publications. 2011/162: 125-32
20.	Kalavathy, J.E.; Amritha Suresh; Elango, M.E.; Lakshmi, S. ; Hiran, K.R.; Subramaniakulathu Iyer; Sundaram, K.R.; Moni Abraham Kuriakose. 'Role of human papillomavirus in oral tongue squamous cell carcinoma' Asian Pacific Journal of Cancer Prevention. 2011/12(4): 889-96
21.	Kothari, K.C; Chandramohan, K. ; Preethi Sara George ; Patel, M.H.; Gatti, R.C.; Gurjar, G.C.. 'Comparison of esophagectomy with and without thoracotomy in a low-resource tertiary care centre in a developing country' Diseases of the Esophagus. 2011/24(8): 583-89
22.	Laija S. Nair; Mahesh, S; Smitha, L.S. ; Sujathan, K. ; Remani, P. 'Expression of <i>Canavalia gladiata</i> lectin in leukemic cells' Journal of Cancer Science and Therapy. 2011/3(4): 88-91
23.	Manisha Nair; Dorairaj Prabhakaran; Venkat Narayan, K.M.; Rashmi Sinha; Lakshmy Ramakrishnan; Niveditha Devasenapathy; Daniel, Carrie R.; Ruby Gupta; Preethi Sara George ; Aleyamma Mathew ; Nikhil Tandon; Srinath Reddy, K. 'HbA1c values for defining diabetes and impaired fasting glucose in Asian Indians' Primary Care Diabetes. 2011/5(2): 95-102
24.	Manoj Pandey; Sreerexha, K.R. 'Impact of sexual dysfunction on breast and prostate cancer patients and their spouses' World Journal of Surgical Oncology. 2012/1(1):
25.	Manu M. Joseph ; Aravind, S.R. ; Sheeja Varghese ; Mini, S.; Sreelekha, T.T. 'Evaluation of antioxidant, antitumor and immunomodulatory properties of polysaccharide isolated from fruit rind of Punica granatum' Molecular Medicine Reports. 2012/5(2): 489-96
26.	Nebu A. George ; Balagopal, P.G. ; Thara Somanathan ; Paul Sebastian. 'Multiple ancient schwannoma of the accessory nerve: a case report' Gulf Journal of Oncology. 2012: 66-69
27.	Priya Mary Jacob ; Rekha A. Nair ; Nileena Nayak ; Sindhu Nair, P. . 'Masquerade in rosettes' Indian Journal of Pathology and Microbiology. 2012/55(1): 115-6
28.	Purvish M. Parikh; Ashok Vaid; Suresh H. Advani; Raghunadharao Digumarti; Jayaprakash Madhavan ; Shona Nag; Ajay Bapna; Jagdev S. Sekhon; Shekhar Patil; Preeti M. Ismail; Wang, Yensun; Atul Varadhachary; Zhu, Junming; Rajesh Malik. 'Randomized, double-blind, placebo-controlled phase II study of single-agent oral talactoferrin in patients with locally advanced or metastatic non-small-cell lung cancer that progressed after chemotherapy' Journal of Clinical Oncology. 2011/29(31): 4129-36
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Administration, Standing Committees & Right to Information

a. ADMINISTRATION

Director	: Dr. Paul Sebastian
Additional Director (Academic)	: Dr. P.Kusumakumary
Medical Superintendent	: Dr. K. Ramadas
Deputy Medical Superintendent	: Dr. Aswin Kumar



b. STAFF STRENGTH

Type of Staff	Permanent	New Recruits	Temporary	Daily wages	Deputation		Consultants engaged	Total
					In	Out		
Academic	94	3	3	....	....	....	6	106
Non-Academic	542	26	69	92	4	....	4	737
Total	636	29	72	92	4	---	10	843

c. ACADEMIC SAFF STRENGTH

Professors-15, Additional Professors-22, Associate Professors-16, Assistant Professors-27, Lecturers- 17.

d. NON-ACADEMIC STAFF

Administrative Office

Venugopalan Nair S (Sri.)	Administrative Officer (From 12.05.2011 to 2.10.2011)
Ajayakumar P.K. (Sri)	Administrative Officer (From 29.11.2011 to 26.3.2012)
Lalitha B (Smt.)	Asst. Administrative Officer Gr. I
Sasikumar SV (Sri.)	Purchase Officer
Remila C K (Smt.)	Office Assistant Sel.Gr.
Sylaja C (Smt.)	Office Assistant Sel.Gr.
Snehalatha H B (Smt.)	Office Assistant Sr. Gr.
Vijayan S (Sri.)	Office Assistant Sr. Gr.
Sudevi R (Smt.)	Junior Personal Assistant
Ambili S (Smt.)	Clinical Records Assistant
Kalpna Soni (Smt)	Office Assistant
Balachandran L (Sri.)	Senior Helper
Seethalakshmi P S (Smt.)	Despatcher
Suliman S (Sri.)	Hospital Attender

Cancer Epidemiology & Clinical Research

Anita Nayar (Smt.)	Social Investigator Sr.Gr.
Asha N M (Smt.)	Clerk Gr.I
Jaya Kumar P (Sri.)	Clerk Gr.I
Prasanth Kumar R K (Sri.)	Data Entry Operator Gr.I

Cancer Research

Sreelekha TT (Dr)	Scientific Officer Gr.I
Hareendran N K (Sri.)	Research Assistant Gr. I
Vikraman Nair K (Sri.)	Sr. Animal House Keeper

Clinical Laboratory

Thomas Abraham (Dr)	Scientific Officer Gr. I
Gangadevi C (Smt.)	Technical Officer
Usha J (Smt.)	Technical Officer
Helen B (Smt.)	Lab. Technician Sel.Gr.
Renuka P (Smt.)	Lab. Technician Sel.Gr.
Ajaya Kumar R (Sri.)	Lab. Technician Sr.Gr.



Jaya Kumar B (Sri.)	Lab.Technician Sr.Gr.
Rajesh K R (Sri.)	Lab.Technician Sr.Gr.
Riyad R A (Sri.)	Lab.Technician Sr.Gr.
Saneela S (Smt.)	Lab.Technician Sr.Gr.
Sindhumony S (Smt.)	Lab.Technician Sr.Gr.
Sini L S (Smt.)	Lab.Technician Sr.Gr.
Sreelekha V K (Smt.)	Lab.Technician Sr.Gr.
Trophy S (Sri.)	Lab.Technician Sr.Gr.
Veena Devi Thankachy V S (Smt.)	Lab.Technician Sr.Gr.
Anil Kumar R (Sri.)	Senior Helper

Clinical Services & Medical Records

Chandrika D (Smt.)	Medical Records Officer
Surendran Nair V (Sri.)	Public Relations Officer
Ambily O (Smt.)	Clerk Gr. I
Anil Kumar K (Sri.)	Clerk Gr. I
Annamma J (Smt.)	Clerk Gr. I
Geetha O (Smt.)	Clerk Gr. I
John S (Sri.)	Clerk Gr. I
Kumari Bindu P K (Smt.)	Clerk Gr. I
Mariamamma M A (Smt.)	Clerk Gr. I
Prabhavathi Devi AK (Smt.)	Clerk Gr. I
Pradeep Kumar B (Sri.)	Clerk Gr. I
Siju R. Nair (Smt.)	Clerk Gr. I
Sreekumar B (Sri.)	Clerk Gr. I
Sreelatha S (Smt.)	Clerk Gr. I
Thankamony Amma P (Smt.)	Clerk Gr. I
Dinesh P S (Sri.)	Pharmacist Gr. I
Shaji SS (Sri.)	Pharmacist
Mini KL (Smt.)	Pharmacist
Saraladevi P G (Smt.)	Cashier Sel.Gr.
Sheela Kumari R (Smt.)	Cashier Sel.Gr.
Girija R (Smt.)	Clinical Records Assistant
Bindu Sadasivan (Smt.)	Clinical Records Assistant
Ajitha S (Smt.)	Clinical Records Assistant
Gireesh S (Sri.)	Clinical Records Assistant
Jayalekshmi P (Smt.)	Coding Clerk
Satheeshkumar K S (Sri.)	Tel. Operator Cum Receptionist Gr. I
Sreekumar C (Sri.)	Tel. Operator Cum Receptionist
Krishnan Nair P (Sri.)	Driver Sel.Gr.
Sasidharan Nair N (Sri.)	Driver Sel.Gr.

Sreekumaran Nair P (Sri.)	Driver Sr.Gr.
Nazaruddin S (Sri.)	Driver Gr. I
Premachandran Nair S (Sri.)	Driver Gr. I
Anil Kumar T.T. (Sri.)	Driver
Ajitha Kumari R B (Smt.)	Senior Helper
Mariyamamma Varghese (Smt.)	Senior Helper
Subair M (Sri.)	Senior Helper
Thomas Rajasekharan (Sri.)	Senior Helper
Amrithamma M (Smt.)	Hospital Attender
Sivankutty K (Sri.)	Hospital Attender
Gangadharan V (Sri.)	Gardener

Community Oncology

Sreekumar C (Sri.)	Social Investigator Sr.Gr.
Jeena Joseph N (Smt.)	Protocol Nurse
Vindhya Sugathan (Smt.)	Data Entry Operator Gr.I

Director's Office

Savithri Amma B (Smt.)	Junior Personal Assistant
Antony P (Sri.)	Despatcher
Senan S (Sri.)	Senior Helper

ECDC, Ernakulam

Latha A (Dr)	Cytopathologist
James Thomas M (Sri.)	Cytotechnician Sel.Gr.
Mercy Joseph K (Smt.)	Cytotechnologist Sr.Gr.
Radha C (Smt.)	Cytotechnologist Sr.Gr.
Lijo TV (Sri)	Lab.Technician Sr.Gr.
Renjini Thomas (Smt.)	Lab.Technician Sr.Gr.
Ambika T B (Smt.)	Staff Nurse Sr. Gr.
Gracy George (Smt.)	Staff Nurse
Letha B (Smt.)	Typist Gr. I
Gopakumar P (Sri.)	Helper
John Evidus P P (Sri.)	Hospital Attender





ECDC, Palakkad

Sanil P N (Sri.)	Cytotechnologist
Nirmala K C (Smt.)	Staff Nurse Gr. I
Abdul Rahiman P M (Sri.)	Senior Helper

Engineering Wing

Vijaya Kumar L (Sri.)	Chief Construction Engineer
Rajendran K R (Sri.)	Supervisor (Electrical) Sr. Gr.
Santhosh Kumar A R (Sri.)	Supervisor (Electrical) Sr.Gr.
Venugopalan Nair V R (Sri.)	Supervisor (Electrical)
Giji P S (Sri.)	Supervisor (Electrical)
Jayakumar P (Sri.)	Electrician Gr.I
Rajmohan M B (Sri.)	Electrician Gr.I
Suresh Kumar G (Sri.)	Electrician
Sivarajan L (Sri.)	Electronic Technician Sr.Gr
Harikumar S (Sri.)	Semi Skilled Worker
Jayabalan Nair B (Sri.)	Semi Skilled Worker
Rajan P C (Sri.)	Senior Helper

Finance & Accounts

Lekshmi Rani KS (Smt.)	Controller of Finance
Mathai KO (Sri.)	Accounts Officer

Beena N (Smt.)	Asst. Accounts Officer
Girija Kumari L S (Smt.)	Office Assistant Sr.Gr.
John Joseph (Sri.)	Office Assistant
Johnson X (Sri.)	Cashier Cum Receptionist Gr.I
Jumailathu Beevi K M (Smt.)	Office Assistant Sel.Gr.
Sasikumar K (Sri.)	Asst.Internal Audit Officer
Usha V (Smt.)	Data Entry Operator Sr.Gr.
Ajitha O S (Smt.)	Office Assistant Sr. Gr.
Veena C L (Smt.)	Office Assistant Sr. Gr.
Shajkumar K R (Sri.)	Office Assistant Sr Gr.
Vijayaprasad B (Sri.)	Clerk Gr. I
Nandakumar T (Sri.)	Office Assistant

Imageology

Asha S (Smt.)	Radiographer
Binoy B G (Sri.)	Radiographer
Hari C (Sri.)	Dark Room Asst. Gr. I
Jayakumar P(Sri.)	Radiographer
Joe D'cruz A (Sri.)	Technical Officer
Krishnankutty R (Sri.)	Senior Helper
Mallika Devi S (Smt.)	Junior Personal Assistant
Pradeep S (Sri.)	Radiographer Sel.Gr.
Prasad P P (Sri.)	Radiographer Sel.Gr.
Santhosh Kumar C S (Sri.)	Hospital Attender
Sathyalekha S I (Smt.)	Radiographer Sel.Gr.
Shailesh Kumar K N (Sri.)	Radiographer Sel.Gr.
Udayakumar K R (Sri.)	Radiographer Sr.Gr.
Sini F K (Smt.)	Radiographer
Sreelekha L D (Smt.)	Radiographer
Veena R R (Smt.)	Radiographer



Information Systems

Neelima N (Smt.)	Systems Manager
Rajesh P (Sri.)	System Analyst
Shaji J (Sri.)	System Analyst
Pradeep Chandran (Sri.)	Asst. Programmer Gr: I (Till 27.9.2010)
Pradeep Chandran (Sri.)	Junior System Analyst (From 28.9.2010)
Basil Varghese (Sri)	Junior System Analyst
Jayanthi J K (Smt.)	Data Entry Operator Sr:Gr:
Suseela Devi B (Smt.)	Data Entry Operator Sr:Gr:

Library & Information Services

Vishnu V (Sri.)	Librarian Cum Information Officer
Saji S Nair (Sri.)	Library Assistant Gr: I
Ganga A P (Smt.)	Clinical Records Assistant
Balachandran K G (Sri.)	Senior Helper
Vijayakumaran Nair R (Sri.)	Audio Visual Operator Gr: I

Medical Oncology

Lali V S (Dr)	Resident Medical Officer Gr: I
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Nuclear Medicine

Sheela V (Smt.)	Technical Officer
Sheeja S R (Smt.)	Radiographer Sel:Gr:
Suja B R (Smt.)	Radiographer Sel:Gr:
Saritha V S (Smt.)	Radiographer Sr:Gr:
Sibi K S (Smt.)	Radiographer
Sunitha S (Smt.)	Radiographer
Salini PS (Smt)	Radiographer
Bindu B (Smt.)	R I A Technician Sr: Gr:
Minyamma K (Smt.)	R I A Technician Sr: Gr:
Sindhu P (Smt.)	R I A Technician Sr: Gr:
Ananda Kumar K (Sri.)	R I A Technician Gr: I
Usha R (Smt.)	Data Entry Operator

Nursing Services

Sreelekha R (Smt.)	Chief Nursing Officer
Flower Augustine (Smt.)	Nursing Supt. Gr: I
Geetha S (Smt.)	Nursing Supervisor
Lizyamma Jacob (Smt.)	Nursing Supervisor
Mariamamma James (Smt.)	Nursing Supervisor
Sally Abraham (Smt.)	Nursing Supervisor
Geetha Kumari B S (Smt.)	Head Nurse Gr: I

Jaya T S (Smt.)	Head Nurse Gr: I
Jikki M (Smt.)	Head Nurse Gr: I
Prasanna Kumari S (Smt.)	Head Nurse Gr: I
Rajila Beegum (Smt.)	Head Nurse Gr: I
Sheeba S V (Smt.)	Head Nurse Gr: I
Shobha S (Smt.)	Head Nurse Gr: I
Sunitha Kumari R (Smt.)	Head Nurse Gr: I
Vijaya A K (Smt.)	Head Nurse Gr: I
Vijayalekshmy Ammal (Smt.)	Head Nurse Gr: I
Aniamma Joseph (Smt.)	Head Nurse
Sheela Rodriguez (Smt.)	Head Nurse
Shema C (Smt.)	Head Nurse
Sindhu S (Smt.)	Head Nurse
Aleyamma Mathew (Smt.)	Staff Nurse Sr: Gr:
Bensamma Varghese (Smt.)	Staff Nurse Sr: Gr:
Sindhu G S (Smt.)	Staff Nurse Sr: Gr:
Siva Kumari P R (Smt.)	Staff Nurse Sr: Gr:
Abraham Shini (Smt.)	Staff Nurse Gr: I
Ajitha S (Smt.)	Staff Nurse Gr: I
Ajitha T L (Smt.)	Staff Nurse Gr: I
Aleyamma Chacko (Smt.)	Staff Nurse Gr: I
Anila Kumari S (Smt.)	Staff Nurse Gr: I
Bindhu M (Smt.)	Staff Nurse Gr: I
Bini A (Smt.)	Staff Nurse Gr: I
Binu O (Smt.)	Staff Nurse Gr: I
Chandrika P (Smt.)	Staff Nurse Gr: I
Elsamma Joseph (Smt.)	Staff Nurse Gr: I
Geetha Kumari D (Smt.)	Staff Nurse Gr: I
Ilin William (Smt.)	Staff Nurse Gr: I
Indira Devi G (Smt.)	Staff Nurse Gr: I
Indu V S (Smt.)	Staff Nurse Gr: I
Jessy Thomas (Smt.)	Staff Nurse Gr: I
Joby Paul (Smt.)	Staff Nurse Gr: I
Kumari Sindhu S (Smt.)	Staff Nurse Gr: I
Laly Joseph (Smt.)	Staff Nurse Gr: I
Leemol Mathew (Smt.)	Staff Nurse Gr: I
Mangalam S (Smt.)	Staff Nurse Gr: I
Marykutty Mathew (Smt.)	Staff Nurse Gr: I
Maya K B (Smt.)	Staff Nurse Gr: I
Moly MT (Smt.)	Staff Nurse Gr: I
Nisha Vidyadhar R (Smt.)	Staff Nurse Gr: I
Ranichandra V (Smt.)	Staff Nurse Gr: I
Rethidevi G S (Smt.)	Staff Nurse Gr: I

Sajitha S (Smt.)	Staff Nurse Gr: I	Deepa T P (Smt.)	Staff Nurse
Santhi Rani N (Smt.)	Staff Nurse Gr: I	Divya Das S (Smt.)	Staff Nurse
Saraswathy Amma P (Smt.)	Staff Nurse Gr: I	Girija L (Smt.)	Staff Nurse
Sheeba P (Smt.)	Staff Nurse Gr: I	Gracy Sebastian (Smt.)	Staff Nurse
Sherly M (Smt.)	Staff Nurse Gr: I	Indulekha K S (Smt.)	Staff Nurse
Shijikumary N G (Smt.)	Staff Nurse Gr: I	Jayasree C G (Smt.)	Staff Nurse
Sindhumul M G (Smt.)	Staff Nurse Gr: I	Jeeja Rajan (Smt.)	Staff Nurse
Sophiya Lilly (Smt.)	Staff Nurse Gr: I	Jyothilekshmi D (Smt.)	Staff Nurse
Suma P V (Smt.)	Staff Nurse Gr: I	Kavitha S G (Smt.)	Staff Nurse
Swapna C R (Smt.)	Staff Nurse Gr: I	Kumari Sobha D (Smt.)	Staff Nurse
Jainamma Standal (Smt.)	Staff Nurse Gr: I	Ligi Das R S (Smt.)	Staff Nurse
Kumari Thankam S (Smt.)	Staff Nurse Gr: I	Lija K (Smt.)	Staff Nurse
Sheeja Samuel (Smt.)	Staff Nurse Gr: I	Linsa George (Smt.)	Staff Nurse
Sindhumole L K (Smt.)	Staff Nurse Gr: I	Lizy Varkey (Smt.)	Staff Nurse
Ajila M S (Smt.)	Staff Nurse	Manju M S (Smt.)	Staff Nurse
Ajitha S (Smt.)	Staff Nurse	Manju VP (Smt.)	Staff Nurse
Amrutha L Raj (Smt.)	Staff Nurse	Manjusha G S (Smt.)	Staff Nurse
Aneeta J George (Smt.)	Staff Nurse	Mareena Silas (Smt.)	Staff Nurse
Anitha Kumary P V (Smt.)	Staff Nurse	Maya N Nair (Smt.)	Staff Nurse
Annamma E J (Smt.)	Staff Nurse	Maya S S (Smt.)	Staff Nurse
Anupama B (Smt.)	Staff Nurse	Mayadevi L (Smt.)	Staff Nurse
Anupama Susmitha (Smt.)	Staff Nurse	Nisha K N (Smt.)	Staff Nurse
Aparna B (Smt.)	Staff Nurse	Nisha K Thomas (Smt.)	Staff Nurse
Aradhana S (Smt.)	Staff Nurse	Preeja S (Smt.)	Staff Nurse
Archana M.Nair (Smt.)	Staff Nurse	Preetha A (Smt.)	Staff Nurse
Ariya Sreedharan B (Smt.)	Staff Nurse	Preetha S (Smt.)	Staff Nurse
Aswathy M R (Smt.)	Staff Nurse	Preethi P R (Smt.)	Staff Nurse
Beena K G (Smt.)	Staff Nurse	Priya K L (Smt.)	Staff Nurse
Beena Koshy (Smt.)	Staff Nurse	Rajani R V (Smt.)	Staff Nurse
Beena Kumari N (Smt.)	Staff Nurse	Rajaram S K	Staff Nurse
Bency Varghese (Smt.)	Staff Nurse	Raji K R (Smt.)	Staff Nurse
Biji P R (Smt.)	Staff Nurse	Reena A (Smt.)	Staff Nurse
Bincy Lukose (Smt.)	Staff Nurse	Rejani Mole A (Smt.)	Staff Nurse
Bindhu K G (Smt.)	Staff Nurse	Renjini R S (Smt.)	Staff Nurse
Bindhu P D (Smt.)	Staff Nurse	Resmi V (Smt.)	Staff Nurse
Bindhu Rani P V (Smt.)	Staff Nurse	Roja S Anand (Smt.)	Staff Nurse
Bindu Kumari T C (Smt.)	Staff Nurse	Rosamma Joseph (Smt.)	Staff Nurse
Bini R (Smt.)	Staff Nurse	Rugmini M D (Smt.)	Staff Nurse
Cherupushpam M (Smt.)	Staff Nurse	Saji G S (Smt.)	Staff Nurse
Chithra V G (Smt.)	Staff Nurse	Saloma P S (Smt.)	Staff Nurse
Deepa Davis (Smt.)	Staff Nurse	Sandhya V Nair (Smt.)	Staff Nurse
Deepa A S (Smt.)	Staff Nurse	Sandhyamol K S (Smt.)	Staff Nurse

Sangeetha K S (Smt.)	Staff Nurse
Saritha SS (Smt.)	Staff Nurse
Sheeba P Varghese (Smt.)	Staff Nurse
Sheeba V L (Smt.)	Staff Nurse
Sheeja B T (Smt.)	Staff Nurse
Sheeja D B (Smt.)	Staff Nurse
Sherin John Karottu (Smt.)	Staff Nurse
Sherry M (Smt.)	Staff Nurse
Shiny George (Smt.)	Staff Nurse
Shiny P Thankappan (Smt.)	Staff Nurse
Simmy Panicker S (Smt.)	Staff Nurse
Sindhu G (Smt.)	Staff Nurse
Sindhu K (Smt.)	Staff Nurse
Sindhu L (Smt.)	Staff Nurse
Sindhu P Nair (Smt.)	Staff Nurse
Sindhu R (Smt.)	Staff Nurse
Sindhu V (Smt.)	Staff Nurse
Sithara Balakrishnan (Smt.)	Staff Nurse
Smitha S Mani (Smt.)	Staff Nurse
Soni John (Smt.)	Staff Nurse
Sreeja A P (Smt.)	Staff Nurse
Sreeja S (Smt.)	Staff Nurse
Sreekala P (Smt.)	Staff Nurse
Sreekala T (Smt.)	Staff Nurse
Sreekumaran Pillai V (Sri.)	Staff Nurse
Sreelatha C S (Smt.)	Staff Nurse
Sreelekha S (Smt.)	Staff Nurse
Sukanya Kumari S R (Smt.)	Staff Nurse
Suma V (Smt.)	Staff Nurse
Suma John (Smt.)	Staff Nurse
Suma K (Smt.)	Staff Nurse
Suma P S (Smt.)	Staff Nurse
Sumathy P (Smt.)	Staff Nurse
Suni Mathew (Smt.)	Staff Nurse
Sunitha L (Smt.)	Staff Nurse
Swapna K (Smt.)	Staff Nurse
Thara S S (Smt.)	Staff Nurse
Vasanthakumari R (Smt.)	Staff Nurse
Georjee George (Smt.)	Staff Nurse
Gigi Mol Chacko	Staff Nurse
Sreeja MS	Staff Nurse
Sumam L	Staff Nurse

Jaichitra MV	Staff Nurse
Nisa Khalam (Smt.)	Staff Nurse
Sreekala NS (Smt.)	Staff Nurse
Sandhya G (Smt.)	Staff Nurse
Renjini R (Smt.)	Nursing Assistant
Manju C (Smt.)	Nursing Assistant
Babitha Beegum (Smt.)	Nursing Assistant
Sunitha Devi RR (Smt.)	Nursing Assistant
Jayasree S (Smt.)	Nursing Assistant
Sheela L (Smt.)	Nursing Assistant
Manju I (Smt.)	Nursing Assistant
Rajan J (Sri.)	Cleaner
Santhakumary A (Smt.)	Cleaner

Palliative Medicine

Prasanth C V (Dr.)	Resident Medical Officer
Manju Achamma Varghese (Dr.)	Resident Medical Officer
Dennison G (Sri)	Manufacturing Chemist
Sanal AD	Skilled Worker

Pathology

Sindhu Nair P (Dr.)	Resident Medical Officer
Najeeya S (Smt.)	Technical Officer
Jayalal K S (Sri.)	Cytotechnologist Sr.Gr.
Mani K S (Sri.)	Cytotechnologist Sr.Gr.
Veena V S (Smt.)	Cytotechnologist Sr.Gr.
Anitha S (Smt.)	Cytotechnologist
Nataraj A (Sri.)	Cytotechnician Sel.Gr.
Brinda T P (Smt.)	Lab. Technician Sel.Gr.
Saina A (Smt.)	Lab. Technician Sel.Gr.
Sulochana S (Smt.)	Lab. Technician Sel.Gr.
Jayasree P S (Smt.)	Lab. Technician Sr.Gr.
Jiju J S (Sri.)	Lab. Technician Sr.Gr.
Lathamalathy L (Smt.)	Lab. Technician Sr.Gr.
Sherly K Ninan (Smt.)	Data Entry Operator Gr. I
Vijayakumar C (Sri.)	Hospital Attender

Pharmacy & Store

Suresh G (Sri.)	Pharmacist Gr. I (Till 19.06.2011)
Suresh G (Sri.)	Stores Officer (From 20.06.2011)
Vimal Kumar Y S (Sri.)	Helper

Project Cell

Vijayakumar G (Sri.)	Project Assistant
Thrivikraman Nair M G (Sri.)	Clerk Gr. I

Radiation Physics

Ramabhadran P (Sri.)	Technical Officer
Ambily Govind K (Smt.)	Radiographer Sel.Gr.
Anitha C (Smt.)	Radiographer Sel.Gr.
Geetha P (Smt.)	Radiographer Sel.Gr.
Geethamma K (Smt.)	Radiographer Sel.Gr.
Jayasree C G (Smt.)	Radiographer Sel.Gr.
Premeela Devi T (Smt.)	Radiographer Sel.Gr.
Radhakrishnan Nair T (Sri.)	Radiographer Sel.Gr.
Santhan H (Sri.)	Radiographer Sel.Gr.
Sheeba D R (Smt.)	Radiographer Sel.Gr.
Sherif J S (Sri.)	Radiographer Sel.Gr.
Sreekala R (Smt.)	Radiographer Sel.Gr.
Sunil Kumar S (Sri.)	Radiographer Sel.Gr.
Vidduil Latha P A (Smt.)	Radiographer Sel.Gr.
Maheswari J (Smt.)	Radiographer Sr.Gr.
Mariamamma Jacob (Smt.)	Radiographer Sr.Gr.
Mini V L (Smt.)	Radiographer Sr.Gr.
Rajesh P R (Sri.)	Radiographer Sr.Gr.
Sindhu S S (Smt.)	Radiographer Sr.Gr.
Abhilash Sudh S S (Sri.)	Radiographer
Asa Rani K S (Smt.)	Radiographer
Lal K Nair (Sri.)	Radiographer
Manju P M (Smt.)	Radiographer
Maya M (Smt.)	Radiographer
Salini G S (Smt.)	Radiographer
Seena C S (Smt.)	Radiographer
Sheena J (Smt.)	Radiographer
Shinu R S (Sri.)	Radiographer
Sunitha Kumari U P (Smt.)	Radiographer
Vinod S L (Sri.)	Radiographer
Sreekala D (Smt.)	Mould Room Technician Sel.Gr.
Santhosh Kumar M S (Sri.)	Electronic Technician

Security

Jyothikumar S (Sri.)	Sergeant
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Supporting Services

Surendran Nair V (Sri.)	Public Relations Officer
Latha P.T. (Dr)	Asst. Professor in Sociology
Mini N. (Smt.)	Dietician Gr. I

Surgical Oncology

Divya Raj (Dr)	Resident Medical Officer
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Mohan Pillai B (Sri.)	Theatre Technician (Aneasthesia) Sr.Gr.
Abin Issac (Sri.)	Operation Theatre Technician
Rajendran Nair P (Sri.)	Operation Theatre Technician
Manju RS (Smt.)	Operation Theatre Technician
Kirankumar (Sri.)	Operation Theatre Technician
Santhosh S (Sri.)	Operation Theatre Technician
Devaraja Panicker K (Sri.)	Senior Helper
Jayasree S (Smt.)	Typist Gr. I
Viswakumar N (Sri.)	Typist Gr. I
Suresh P S (Sri.)	Senior Helper
Louis T C (Sri.)	Hospital Attender

Transfusion Medicine

Jayalekshmi P (Dr.)	Resident Medical Officer
Rajesh R Chandran (Dr.)	Resident Medical Officer
Bindu A P (Smt.)	Lab. Technician Sr.Gr. (Till 31.05.2011)
Bindu A P (Smt.)	Scientific Assistant (From 01.06.2011)
Renukadevi V (Smt.)	Lab Technician Sel. Gr.
Asha S R (Smt.)	Lab. Technician Sr.Gr.
Mini S P (Smt.)	Lab. Technician Sr.Gr.

e. DISMISSALS/RETRENCHMENTS: Nil

f. RETIREMENTS

Raveendaran Nair R (Sri.)	Administrative Officer (CS) (31.08.2011)
Dr. Jayalekshmi P. (Smt.)	Resident Medical Officer (30.11.2011)
Sasidharan N (Sri.)	Supervisor (Electrical) (31.12.2011)
Christeen V (Smt.)	Head Nurse (31.10.2011)
Usha Varma (Smt.)	Office Assistant Sr. Gr. (30.11.2011)
Annamma J (Smt.)	Clerk Gr. I (31.03.2012)
Leela A (Smt.)	Senior Animal House Keeper (30.09.2011)
Thankappan Chettiar (Sri.)	Senior Helper (31.10.2011)
Chandrika B (Smt.)	Cleaner (31.10.2011)

Standing Committees

a. Scientific Committee

- | | | |
|-----|---|--------------------|
| 1. | Dr. K. Radhakrishnan,
Director, SCTIMST, Thiruvananthapuram | Chairman |
| 2. | Dr. Paul Sebastian
Director, RCC, Thiruvananthapuram | Alternate Chairman |
| 3. | Dr. G.K. Rath
Chief, BRA-IRCH, AIIMS, New delhi | Member |
| 4. | Dr. Rajendra A. Badwe
Director, Tata Memorial Centre, Mumbai | Member |
| 5. | Dr. M. Vijayakumar
Director, Kidwai Memorial Institute of Oncology
Bangaluru | Member |
| 6. | Dr. M. Radhakrishna Pillai
Director, Rajiv Gandhi Centre for Biotechnology
Thiruvananthapuram | Member |
| 7. | Dr. T. Rajkumar
Prof. and Head, Dept. of Molecular
Oncology Cancer Institute (WIA), Chennai | Member |
| 8. | Dr. Nirmala A. Jambhedkar
Prof. and Head, Dept. of Pathology
Tata Memorial Centre, Mumbai | Member |
| 9. | Dr. Meenu Hariharan
Director of Medical Education (Retired)
Thiruvananthapuram | Member |
| 10. | Dr. K. Ramadas
Professor of Radiation Oncology
RCC, Thiruvananthapuram | Convener |

b. Institutional Review Board

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|----|--|----------|
| 1. | Dr. Paul Sebastian
Director, Regional Cancer Centre,
Trivandrum. | Chairman |
| 2. | Dr. P.G. Jayaprakash
Prof. & Head, Division of Radiation Oncology,
Regional Cancer Centre, Trivandrum. | Member |
| 3. | Dr. K. Ramachandran
Professor & Head, Division of Imageology,
Regional Cancer Centre, Trivandrum. | Member |
| 4. | Dr. P. Kusumakumary
Additional Director,
Regional Cancer Centre, Trivandrum. | Member |

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| 5. | Dr. K. Ramadas,
Medical Superintendent,
Regional Cancer Centre, Trivandrum | Member |
| 6. | Dr. V.M. Pradeep
Professor & Head,
Division of Nuclear Medicine,
Regional Cancer Centre, Trivandrum. | Member |
| 7. | Dr. K. Jayasree
Professor & Head, Division of Pathology,
Regional Cancer Centre, Trivandrum. | Member |
| 8. | Dr. N. Geetha,
Professor & Head,
Division of Medical Oncology,
Regional Cancer Centre, Trivandrum. | Member |
| 9. | Dr. Aleyamma Mathew
Additional Professor & Head
Division of Cancer Epidemiology & Clinical Research
Regional Cancer Centre, Trivandrum. | Member |
| 10. | Dr. S. Kannan
Professor, Division of Cancer Research,
Regional Cancer Centre, Trivandrum. | Member |
| 11. | Dr. Francis V. James
Additional Professor,
Division of Radiation Oncology,
Regional Cancer Centre, Trivandrum. | Convener |

c. Ethics Committee

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|----|--|----------|
| 1. | Dr. M. Narendranathan
'Sreenilayam', Veerabhadra Gardens,
Pottakuzhi, Pattom P.O.
Trivandrum-695 004 | Chairman |
| 2. | Dr. M. Radhakrishna Pillai
Director, Rajiv Gandhi Centre for Biotechnology,
Trivandrum | Member |
| 3. | Dr. M. Sambasivan
Prof. of Neurosurgery (Rtd.)
Consultant Neurosurgeon
Cosmopolitan Hospital, Trivandrum. | Member |
| 4. | Dr. C.C. Kartha,
Professor of Eminence
Department of Molecular Medicine
Rajiv Gandhi Centre for Biotechnology, Trivandrum | Member |

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|-----|---|----------|
| 5. | Dr.V. Retnavally
Prof. of Pharmacology (Rtd.)
'Lekshmi', House No. 59
Vrindavan Housing Colony
Pattom, Trivandrum-4 | Member |
| 6. | Sri. M. Yunnus Kunju
Advocate
No. 7, 'Kaleekal', East Pattom, Trivandrum | Member |
| 7. | Smt. Darly Francis
'Bethlehem', D7D Moolayil Lane
Sasthamangalam, Trivandrum-695 010 | Member |
| 8. | Dr. Girish Menon R
Additional Professor of Neurosurgery
Sree Chitra Tirunal Institute for Science & Technology
Trivandrum- I I | Member |
| 9. | Dr. N. Geetha
Professor & Head
Division of Medical Oncology
Regional Cancer Centre, Trivandrum | Member |
| 10. | Dr. Rejnish Kumar R
Associate Professor of Radiation Oncology
Regional Cancer Centre, Trivandrum | Convener |

d. Medical Audit Committee

- | | | |
|----|---|----------|
| 1. | Dr. K. Ramadas
Medical Superintendent | Chairman |
| 2. | Dr. P.G. Jayaprakash
HOD, Radiation Oncology | Member |
| 3. | Dr. Iqbal Ahamed
HOD, Surgical Oncology | Member |
| 4. | Dr. N. Geetha
Professor, HOD, Medical Oncology | Member |
| 5. | Dr. P. Kusumamumary
HOD, Paediatric Oncology | Member |
| 6. | Dr. K. Ramachandran
HOD, Imageology | Member |
| 7. | Dr. V.M. Pradeep
HOD, Nuclear Medicine | Member |
| 8. | Dr. Cherian M. Koshy
HOD, Palliative Care | Member |
| 9. | Dr. Beela Sarah Mathew
Addl. Professor, Radiotherapy | Member |

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|-----|--|----------|
| 10. | Dr. R. Rejnish Kumar
Assoc. Professor, Radiotherapy | Member |
| 11. | Ms. R. Sreelekha
Chief Nursing Officer | Member |
| 12. | Ms. D. Chandrika
Medical Records Officer | Member |
| 13. | Dr. Aswin Kumar
Deputy Medical Superintendent | Convener |

e. Hospital Infection Control Committee

- | | | |
|-----|--|----------|
| 1. | Dr. K. Ramadas
Medical Superintendent | Chairman |
| 2. | Dr. Iqbal Ahamed M.
HOD, Surgical Oncology | Member |
| 3. | Dr. N. Geetha
HOD, Medical Oncology | Member |
| 4. | Dr. Rachel Cherian Koshy
HOD, Anaesthesiology | Member |
| 5. | Dr. Swapna R. Nath
HOD, Microbiology | Member |
| 6. | Dr. K. Vijayalekshmi
HOD, Transfusion Medicine | Member |
| 7. | Dr. Shruti Prem
Assistant Professor, Medical Oncology | Member |
| 8. | Ms. R. Sreelekha, Chief Nursing Officer | Member |
| 9. | Nursing Supdt.
In-charge of Laundry & Linen Services | Member |
| 10. | Nursing Supdt.
In-charge of Housekeeping Services | Member |
| 11. | Head Nurse in charge of CVAD | Member |
| 12. | Infection Control Nurses | Member |
| 13. | Head Nurse, Operation Theatre | Member |
| 14. | Staff Nurse, NABH Co-ordinator | Member |
| 15. | Chief Construction Engineer | Member |
| 16. | Biomedical Engineer | Member |
| 17. | Controller of Finance | Member |
| 18. | Purchase Officer | Member |
| 19. | Ms. Lizyamma Jacob, Nursing Supervisor | Convener |

f. Building Committee

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|----|-------------------------------|----------|
| 1. | Chief Engineer, PWD | Chairman |
| 2. | Chief Architect, PWD | Member |
| 3. | Director of Medical Education | Member |

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|-------------------------------------|-------------------------------------|----------|
| 4. Principal | Medical College, Thiruvananthapuram | Member |
| 5. Director, RCC | | Member |
| 6. Controller of Finance, RCC | | Member |
| 7. Chief Construction Engineer, RCC | | Convener |

g. Library Committee

- | | | |
|---|-----------------------------------|----------|
| 1. Dr. Paul Sebastian | Director | Chairman |
| 2. Dr. P. Kusumakumary | Additional Director (Academic) | Member |
| 3. Dr. K. Ramadas | Medical Superintendent | Member |
| 4. Smt. Lekshmi Rani, Controller of Finance | | Member |
| 5. Dr. K. Ramachandran | HOD, Imageology Division | Member |
| 6. Dr. K. Jayasree, HOD, Pathology Division | | Member |
| 7. Dr. S. Kannan | HOD, Cancer Research Division | Member |
| 8. Sri. V. Vishnu | Librarian cum Information Officer | Convener |

Right To Information Act

a. Public Information Officers

1. Sri. K.O. Mathai, Accounts Officer
2. Sri. Ajayakumar P.K., Administrative Officer
3. Smt. Chandrika D., Medical Records Officer
4. Smt. N. Neelima, Systems Manager

b. Assistant Public Information Officers

Smt. B. Lalitha, Assistant Administrative Officer Gr. I
 Sri. S.V. Sasikumar, Purchase Officer
 Smt. N. Beena, Assistant Accounts Officer
 Sri. V. Surendran Nair, Public Relations Officer

c. Appellate Authority

Dr. K. Ramadas, Medical Superintendent

d. Number of Applications

Received: 69

Disposed: 64 (including 2 pending applications of the previous year)

Pending: 7

e. Penalties levied for non-supply of information: Nil

f. Cases pending with State Information Commission: Nil

Internal Control Mechanism

- a. Staff used exclusively for internal audit: 1
- b. Audit committee meetings: Nil
- c. Monitoring committees set up: Administrative committee consisting of all HODs, Medical Superintendent and Additional Directors with the Director as the Head, meets periodically to evaluate the functioning of the Centre.

Other matters

- a. Grievance redressal mechanism: Committee for redressal of complaints of sexual harassment against female employees.
- b. Official language act : Not implemented
- c. Computerisation : Completed

EVENTS



South Zone CME of Indian Association of Surgical Oncology (9th - 10th April 2011)



Visit by Dr. Shashi Tharoor MP (14th September 2011)



World Palliative Care Day Celebrations (8th October 2011)



National Cancer Registry Programme, Cancer Registry Meeting (30th November 2011)



Dr. Daniel A. Monti, Executive Medical Director, Centre of Integrative Medicine, Thomas Jefferson University and Hospital, Philadelphia, USA on his visit to RCC (19th December 2011)



World Cancer Awareness Day (4th February 2012)



Legislative Committee on Private Members Bills and Resolutions on their visit to RCC (6th February 2012).



Dr. Michael Tuttle, Endocrinologist, Memorial Sloan Kettering Cancer Centre, New York, USA on his visit to RCC (9th March 2012)



Kerala State Energy Conservation Award 2011

ACCOUNTS
2011-2012

REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM (Reg. No. 567/81)
BALANCE SHEET AS ON 31st MARCH 2012

Previous Year Rs. Ps.	Schedule	Liabilities	Current Year Rs. Ps.	Previous Year Rs. Ps.	Schedule	Assets	Rs. Ps.	Current Year Rs. Ps.
1,138,242,090.17	I	CAPITAL FUND	1,341,445,057.17	1,114,743,447.76	V	FIXED ASSETS	1,317,433,284.76	
184,085,099.16	II	SPECIFIC FUNDS	228,566,560.08	585,220,993.37		Less: PROVISION FOR DEPRECIATION	674,312,102.91	
159,447,514.00		GRANT IN AID FROM GOVT OF KERALA	266,912,865.00	529,522,454.39		FIXED ASSETS (net of provision for dep.)		643,121,181.85
				299,236,682.00	VI	INVESTMENTS		290,462,131.00
		CURRENT LIABILITIES & PROVISIONS				CURRENT ASSETS, LOANS & ADVANCES		
46,450,223.00	III	CREDITORS FOR GOODS SUPPLIED	105,312,338.00					
86,998,214.67	IV	OTHER CURRENT LIABILITIES	91,356,983.82	61,924,512.00	VII	CLOSING STOCK		83,913,648.00
7,409,746.00		PROVISION FOR GRATUITY		126,119,862.46	VIII	INVESTIGATION FEES RECEIVABLE		176,547,192.72
				65,789,491.21	IX	BALANCE WITH BANKS		309,708,606.56
				352,092.73	X	CASH IN HAND		748,363.03
				10,813,063.68	XI	ADVANCES - OTHERS		13,481,716.17
				528,874,728.53	XII	INCOME & EXPENDITURE A/C		515,610,964.74
1,622,632,887.00		TOTAL	2,033,593,804.07	1,622,632,887.00		TOTAL		2,033,593,804.07

XIII SIGNIFICANT ACCOUNTING POLICIES
XIV NOTES ON ACCOUNTS

Schedules I to XV form an integral part of this Balance Sheet.

Thiruvananthapuram,
23/11/2012

As per my report of even date attached

DR. PAUL SEBASTIAN
(Director)

LEKSHMI RANI
(Controller of Finance)

SAJIV S
Bcom, BGL, DISA(ICAI), FCA
Chartered Accountant
Membership No.212594

**REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM (Reg.No. 567/81)
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2012**

Previous Year Rs. Ps.	Schedule	Expenditure	Current Year Rs. Ps.	Previous Year Rs. Ps.	Schedule	Income	Current Year Rs. Ps.
44,683,101.00		Opening Stock	61,924,512.00	277,410,843.50		Investigation Fees	331,665,525.23
332,319,695.00	A	Purchases Medicines, Chemicals etc.	429,606,675.70	312,704,599.15		Medicine Receipts	385,214,047.33
358,298,459.30	B	Salaries and Allowances	367,146,444.70	46,19,236.86		Interest Income	8,492,947.37
290,893.00		Uniform and Livenies	322,981.00	612,850.00	K	Training Fees	3,024,250.00
871,262.00	C	Rent, Rates & Taxes	134,748.00	7,060,702.05	L	Miscellaneous Income	5,642,642.00
351,072.00	D	Postage, Telephone & Telegram	348,840.00	61,924,512.00	VIII	Closing Stock	83,913,648.00
122,855.00	E	Travelling Expenses	229,455.00				
2,355,276.50		Printing & Stationary	2,469,557.00	120,000,000.00		Grant-in-Aid from Govt of Kerala	200,000,000.00
686,354.00		Advertisement Charges	1,773,683.00				
16,875,423.00	F	Electricity and Water Charges	16,621,819.00				
10,065,598.17	G	Repairs & Maintenance	7,016,799.45				
8,912,488.00	H	Service Contract Charges	11,891,298.00				
120,000.00		Audit Fees	200,000.00				
633,377.00	I	Computer Expenses	934,972.00				
8,834.00		Books & Periodicals	8,450.00				
3,308,001.00		Expenses to NTR	3,124,793.10				
1,860,631.00		Medicine issues (free)	1,315,390.00				
1,102,388.25	J	Miscellaneous Expenses	1,234,162.95				
		DCCP Expenses					
		Matress, Linen, Laundry and other					
4,105,101.00		Housekeeping Expenses	4,545,738.70				
77,135,318.22	VI	Depreciation	89,469,725.54				
-79,773,383.88		Excess of Income over Expenditure	17,633,014.79				
784,332,743.56		TOTAL	1,017,953,059.93	784,332,743.56		TOTAL	1,017,953,059.93

XIV SIGNIFICANT ACCOUNTING POLICIES

XV NOTES ON ACCOUNTS

Schedules A to L, VI, XIV and XV form an integral part of this Statement.

Thiruvananthapuram,
23/11/2012

As per my report of even date attached

DR. PAUL SEBASTIAN
(Director)

LEKSHMI RANI
(Controller of Finance)

SAJIV S
Bcom, BGL, DISA(ICA), FCA
Chartered Accountant
Membership No.212594

REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM (Reg. No. 567/81)

SCHEDULE - V

Item	Gross Block			Rate %	Up To 31.3.11	Depreciation		Net Block		
	As on 1.4.11	Additions during the year	Deduction during the year			As on 31.3.2012	Provided during the year	Adjustments/ deletions	Total Up to 31.3.2012	As On 31.3.2012	As On 31.3.11
LAND	1,000.00	-	-	-	-	-	-	-	1,000.00	1,000.00
BUILDINGS	206,268,626.57	4,013,980.00	-	5.00	84,731,194.80	6,277,570.59	91,008,765.38	-	119,273,841.19	121,537,431.77
CIVIL WORKS	309,140.63	-	-	5.00	97,149.23	10,599.57	107,748.80	-	201,391.83	211,991.40
COBALT UNIT	18,123,455.30	-	-	15.00	14,578,856.10	531,689.88	15,110,545.98	-	30,12,909.32	35,44,599.20
WATER SUPPLY & DRAINAGE	4,757,423.43	697,069.00	-	15.00	2,705,215.36	412,391.56	3,117,606.92	-	2,336,885.51	2,052,208.07
FURNITURE AND FITTINGS	19,591,620.48	2,201,104.00	-	10.00	9,998,352.02	1,179,437.25	11,177,789.27	-	10,614,935.21	9,593,268.46
OFFICE EQUIPMENTS	2,718,018.43	-	-	15.00	2,314,055.96	60,594.37	2,374,650.33	-	343,368.10	403,962.47
HOSPITAL & LAB. EQUIPMENTS	610,688,925.97	121,150,080.00	-	15.00	309,153,956.22	63,999,757.46	372,553,713.69	-	359,265,292.28	301,514,969.75
ELECTRICAL INSTALLATION	42,391,508.90	1,146,260.00	-	15.00	36,568,434.24	1,045,400.20	37,613,834.44	-	5,923,934.46	5,823,074.66
FIRE DETECTION	45,14,703.00	-	-	15.00	3,666,546.67	1,27,223.45	3,793,770.12	-	720,932.88	848,156.33
AIR CONDITIONING	29,753,887.35	8,384,884.00	-	15.00	15,656,928.38	3,372,276.45	19,029,204.83	-	19,109,566.52	14,096,958.97
COMPUTER HARDWARE & SOFTWARE	9,418,557.00	1,602,128.00	-	60.00	8,219,322.59	1,680,817.45	9,900,140.03	-	1,120,544.97	1,199,234.41
GAS AND CYLINDER	7,546,475.05	39,869.00	-	15.00	6,576,580.88	151,464.48	6,728,045.35	-	858,298.70	969,894.17
VEHICLES	1,325,445.60	1,595,331.00	513,130.00	20.00	876,289.91	381,994.54	879,668.45	378,616.00	1,527,978.15	449,155.69
LIBRARY BOOKS & JOURNALS	402,12,422.65	5,950,635.00	-	15.00	22,864,504.43	3,494,782.98	26,359,287.41	-	19,803,770.24	17,347,918.22
LIFT AND ELEVATOR	59,13,240.00	1,524,000.00	-	15.00	5,516,953.86	288,042.92	5,804,996.78	-	1,632,243.22	396,286.14
ASSETS (DONATIONS)	337,612.00	32,500.00	-	15.00	320,414.75	7,454.59	327,869.34	-	42,242.66	17,197.25
TELEPHONE EQUIPMENTS	4,357,521.00	99,850.00	-	15.00	3,379,092.01	1,61,741.85	3,540,833.86	-	916,537.14	978,428.99
HIGH ENERGY LINEAR ACCELERATOR	52,987,763.00	-	-	15.00	36,001,100.05	2,547,999.44	38,549,099.49	-	14,438,663.51	16,986,662.95
ASSETS-TELEMEDICINES PROJECT	7,718,623.00	-	-	15.00	5,548,143.00	325,572.00	5,873,715.00	-	1,844,908.00	2,170,480.00
HOSPITAL EQUIPMENTS & OTHER ASSETS (PROJECT)	28,953,359.00	10,635,818.00	-	15.00	14,721,633.55	3,730,131.52	18,451,765.07	-	21,137,411.93	14,231,725.45
LOW ENERGY LINEAR ACCELERATOR	3,611,489.40	-	-	15.00	1,726,269.36	282,783.01	2,009,052.37	-	1,602,437.03	1,885,220.04
BUILDINGS WORK IN PROGRESS	13,262,630.00	44,129,459.00	-	-	57,392,089.00	-	-	-	57,392,089.00	13,262,630.00
TOTAL	1,114,743,447.76	203,202,967.00	513,130.00	-	585,220,993.37	89,469,725.54	674,312,102.91	378,616.00	643,121,181.85	529,522,454.39

REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM
(Reg. no. 567/81)
CANCER CARE FOR LIFE SCHEME
INCOME AND EXPENDITURE ACCOUNT FOR
THE YEAR ENDED 31st MARCH 2012

Previous Year Rs. Ps.	EXPENDITURE	Current Year Rs. Ps.	Previous Year Rs. Ps.	INCOME	Current Year Rs. Ps.
9,742,207.50	Reimbursement to Patients	11,791,511.00	5,670,836.00	Interest on FD & Investments	7,422,260.00
			4,071,371.50	Excess of Expenditure over Income	4,369,251.00
9,742,207.50	TOTAL	11,791,511.00	9,742,207.50	TOTAL	11,791,511.00

Thiruvananthapuram,
23/11/2012

DR. PAUL SEBASTIAN
(Director)

As per my report of even date attached

LEKSHMI RANI
(Controller of Finance)

SAJIV S
Bcom, BGL, DISA(ICAI), FCA
Chartered Accountant
Membership No.212594

AUDITOR'S REPORT

1. I have audited the attached Balance Sheet of Regional Cancer Centre Society as at 31st March 2012, and also the annexed Income and Expenditure Account for the year ended on that date. These financial statements are the responsibility of the Society's management. My responsibility is to express an opinion on these financial statements based on my audit.
2. I conducted my audit in accordance with Auditing Standards generally accepted in India. Those Standards require that I plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by the management as well as evaluating the overall financial statement presentation. I believe that my audit provides a reasonable basis for my opinion.
3. I further report that:
 1. I have obtained all the information and explanations which to the best of my knowledge and belief were necessary for the purpose of my audit.
 2. In my opinion proper books of accounts have been kept by the Society, so far as appears from my examination of those books.
 3. The Balance Sheet and Income and Expenditure account dealt with by this report are in agreement with the books of accounts.
 4. Investigation Fee Receivable, Creditors for Goods Supplied, Advances and Current Liabilities are subject to confirmation of balances from the respective parties.
5. Refer Significant Accounting Policies No.6 and Notes on Accounts No.1 and 4 regarding method of accounting for government grants and effect thereof on the surplus for the year:

Subject to my comments in para (4) and (5) mentioned above, in my opinion and to the best of my information and according to the explanations given to me, the said accounts read together with the accounting policies and notes thereon give a true and fair view

 - (a) In the case of Balance Sheet of the state of affairs of the Society as at 31st March 2012.
 - (b) In the case of the Income and Expenditure Account of the surplus (excess of income over expenditure) of the Society for the year ended on that date.

Thiruvananthapuram
23-11-2012

SAJIVS
BCom, BGL, DISA(ICAI), FCA
Chartered Accountant
Membership No.212594

SCHEDULE – XIV

SIGNIFICANT ACCOUNTING POLICIES

1. ACCOUNTING ASSUMPTIONS

The accounts have been prepared under the historic cost convention on the basis of a going concern, with revenues recognized and expenses accounted on their accrual (except income from investment and leave surrender salary which are accounted when income/expense is actually received or paid) including provision/adjustments for committed obligations and amounts determined as payable or receivable during the year.

The Financial Statements are prepared in accordance with Generally Accepted Accounting Principles (GAAP) in India and the Accounting Standards issued by the Institute of Chartered Accountants of India and deviations if any from such standards have been explained in the notes on accounts.

2. METHOD OF ACCOUNTING

The method of accounting followed by the society is "mercantile system" subject to the clause no.1 above.

3. INVENTORIES

Inventories are valued at cost or net realizable value whichever is less. Cost includes freight and other related incidental expenses and is computed on weighted average method.

4. FIXED ASSETS

The 'Gross Block' of fixed assets represents cost of acquisition and all other attributable cost of bringing the asset to the working condition for its intended use. Accumulated depreciation is shown separately as Provision for Depreciation.

5. DEPRECIATION

Depreciation is provided on Fixed Assets under written Down Value Method at the rates specified in the Fixed Assets Schedule which is forming part of the balance sheet. In the case of new assets purchased during the year full depreciation is provided at the rates mentioned above while no depreciation is charged during the year in the case of assets disposed/demolished/discarded or otherwise retired during the year.

6. GRANT IN AID

Grant in Aid received during the year from the State Government under the plan fund to the extent of the value of addition of fixed assets in the current year is transferred and included under Capital Fund Account and the balance amount is retained under Grant in Aid from the State Government Account. Grant in Aid received under non plan fund from the State Government is transferred to Income and Expenditure Account to the extent utilized in the current year for the purpose for which it is received and the amount to the extent not utilized in the current year for the stated purpose, but set apart to be used for the purpose in the subsequent year(s), is retained under Grant in Aid from the State Government Account. Capital Grant received from NRHM is included under capital fund account as it represents the fixed assets acquired.

7. CAPITAL FUND

Capital Fund Account balance includes the fund balance at the beginning of the year; Capital Grants to the extent used for acquisition/ construction of fixed assets, specific donation used during the current year for acquiring fixed assets and the value of assets received from the projects free of cost.

8. INCOME TAX

No provision for current or deferred Tax is provided as the society is a registered charitable society under section 12A(a) of Income Tax Act 1961.

9. ASSETS RECEIVED FROM PROJECT CELL

The assets transferred to the society from the projects cell after having fulfilled its intended use in the projects are credited to capital fund account as the society received these assets at free of cost.

10. RETIREMENT BENEFITS

The liability on account of post-employment benefit in the form of gratuity, as and when it arises, is met from Regional Cancer Centre Employees Group Gratuity Fund set up under a Group Gratuity Scheme administered by Life Insurance Corporation of India. The premia paid to the scheme is treated as revenue expenditure and disclosed in the Income and Expenditure account.

SCHEDULE – XV NOTES ON ACCOUNTS

1. Had the organization followed the Accounting Standard (AS 12) regarding Govt. Grant issued by the ICAI and reduced grant utilized for acquisition of fixed assets from the gross value of such assets, the depreciation debited to Income and Expenditure Account would have been reduced by the quantum of depreciation relating to the value of specific assets acquired out of grant in aid and therefore would have consequent reduction in the deficit/surplus for the year. As the organization has been following the accounting practice, as mentioned under the clause no.6 of the significant accounting policies, for previous years also, the impact of the above deviation from the standard in the current year's deficit/surplus could not be quantified precisely.
2. Investigation Fee includes income from registration fee, ward charges, nuclear medicine, radiotherapy, surgery and lab.
3. There is no surplus or profit during the year, according to the Society, which is chargeable to income tax.
4. Contingent liability towards property tax and interest thereon is amounting to Rs.1,04,67,369/-. Non-refund of Grant in aid is contingent up on the fulfillment of all the conditions attached to such assistance.
5. Government of Kerala have sanctioned, vide order No. G.O (Rt)No. 2299/2012/H & FWD Dated 10/07/2012, the revision of pay structure of 6th Central Pay Commission to the faculties of Regional Cancer Centre with effect from 01/01/2006 subject to the condition that the benefit from 01/01/2006 to 31/12/2006 will be notional and the monetary benefit will be available from 01/01/2007. The liability towards such payment is estimated to Rs.562lakhs- (approx.) and no provision has been made in the books during the current year.
6. The balance in Grant in Aid from Govt. of Kerala a/c includes grant received under plan fund of Rs.21,69,12,865/-and grant received under non plan of Rs.5,00,00,000/-
7. Figures for the previous year have been regrouped and recast wherever necessary to suit the current year's lay out.

Thiruvananthapuram
23-11-2012

DR. PAUL SEBASTIAN
(Director)

LEKSHMI RANI
(Controller of Finance)

As per my report of even date attached

SAJIV S
B.Com. BGL, DISA(ICAI), FCA
Chartered Accountant
Membership No.212594

UTILISATION CERTIFICATE

1. During the year 2011-12, the Regional Cancer Centre Society, Trivandrum has received Rs.2500Lakhs under the head of account 2210-05-800-89-35-RCC-Grant in Aid(P), Rs.800Lakhs under the head of account 2210-05-800-89-09-36(NP)Grant in Aid-Non-salary and Rs.1700Lakhs under the head of account 2210-05-800-89-09-31 Grant in Aid-General salary(NP) from the Govt. of Kerala. The details of such receipts are as follows:

Installment	G.O.Numbers	Amount (Rs. In Lakhs)
A.	Head of Account-2210-05-800-89-35-RCC- Grant in Aid(P)	
1	G.O.(Rt)No.4071/2011/H&FWD dtd 24/11/2011	300.00
2	G.O.(Rt)No.161/2012/H&FWD dtd. 13/01/2012	600.00
3	G.O.(Rt)No.539/2012/H&FWD dtd.18/02/2012	1000.00
4	G.O.(Rt)No.868/2012/H&FWD dtd. 16/03/2012	600.00
	Total	2500.00
B.	Head of Account -2210-05-800-89-09-36(NP) Grant in Aid-Non-salary	
1	G.O.(Rt)No.3124/2011/H&FWD dtd. 31/08/2011	100.00
2.	G.O.(Rt)No.3594/2010/H&FWD dtd. 14/10/2011	100.00
3.	G.O.(Rt)No.4101/2011/H&FWD dtd. 28/11/2011	100.00
4.	G.O.(Rt)No.1105/2012/H&FWD dtd. 29/03/2012	500.00
	Total	800.00
C.	Head of Account 2210-05-800-89-09-31 Grant in Aid-General salary(NP)	
1	G.O.(Rt)No.2146/2011/H&FWD dtd. 03/06/2011	200.00
2	G.O.(Rt)No.3124/2011/H&FWD dtd. 31/08/2011	200.00
3	G.O.(Rt)No.3594/2010/H&FWD dtd. 14/10/2011	200.00
4	G.O.(Rt)No.4101/2011/H&FWD dtd. 28/11/2011	500.00
5	G.O.(Rt)No.34/2012/H&FWD dtd. 04/01/2012	400.00
6	G.O.(Rt)No.1105/2012/H&FWD dtd. 29/03/2012	200.00
	Total	1700.00
	Grand Total (A+B+C)	5,000.00

- 2.The amount was used for the followings:

Sl. No.	Purpose	Amount (Rs. in lakhs)
1	Acquisition of Assets	784.34
2	Opening LC for acquiring fixed Asset (Margin Deposit for Letter of Credit opened for acquiring fixed assets)	510.92
3	Operational Expenditure including salary	2000.00
	Total	3,295.26

Acquisition of assets includes security deposits deducted from contractors/suppliers of Rs.46.14 lakhs and cheques issued for payment but not cleared till 31.03.2012 of Rs.42.09 lakhs.

3. That the utilization mentioned above is true and correct as disclosed by the Books of account of the Society

Thiruvananthapuram
23-11-2012

SAJIV S
BCom, BGL, DISA(ICAI), FCA
Chartered Accountant
Membership No.212594

T.AJITH KUMAR B.Com, FCA
CHARTERED ACCOUNTANT

Chaitaniya,
T.C. 54/2214-2
Sreedharan Pillai Road
Pappanamcode P.O.
Thiruvananthapuram 695 018
Telephone: 0471-2495939
Mobile: 9349990489
E-mail: ajithkumarca@yahoo.com

AUDITOR'S REPORT

I have audited the accounts of the Foreign Contribution for Research Projects of the Regional Cancer Centre Society, registered as per T.C Literary Scientific and Charitable Societies Regulation Act XII of 1955 (Reg.No.567/81) with registered office at Medical College PO, Thiruvananthapuram-695011, Kerala State for the year ended 31st March, 2012 and relevant books and vouchers and certify that according to the audited accounts.

1. The brought forward foreign contribution at the beginning of the financial year 2011-2012 was Rs.2,63,67,229.92
2. Foreign Contribution worth Rs.1,07,64,688.24 was received by the Association during the year ended 31st March, 2012.
3. The balance in foreign contribution account together with interest earned thereon at the end of the financial year 2011-2012 was Rs.2,84,40,539.30
4. Certified that the Association has maintained the accounts of foreign contribution and records relating thereto in the manner specified in section 13 of the foreign contribution (Regulation) Act, 1976 read with rule 8 (1) of the foreign contribution (Regulation) Rules, 1976.
5. The information furnished above and in the Balance Sheet and statement of receipts and payments are correct as checked by me.

Trivandrum
9th November, 2012

T.AJITH KUMAR B.Com, FCA
CHARTERED ACCOUNTANT
MEM. NO. 209348

REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM
(Reg.No.567/81)

Foreign contribution for Research Projects
Balance Sheet as at 31st March 2012

LIABILITIES	Amt (Rs. Ps.)	Amt (Rs. Ps.)	ASSETS	Amt (Rs. Ps.)
CAPITAL FUND			FIXED ASSETS	
As on 1-4-2011	11103017.84		Computer	2183574.00
			Printer & UPS	271010.00
Balance as at the end of the year		11103017.84	Fax Machine	51359.00
			Refrigerator	11953.00
			Deep Freezer	123674.00
			Vehicle	2380744.00
			FAN	3687.00
			Furniture	668672.29
			Equipments	4076541.00
			Air Conditioner	223239.00
Project Balances as Per Schedule		11824528.39	Photocopier	322735.00
Research Funds as per Schedule		16616010.91	Building Addl. Facilities	785829.55
CURRENT LIABILITIES			INVESTMENTS	
Salary Recovery		12,430.00	Term Deposit with Syndicate Bank	3608926.24
			Term Deposit with S.B.T	19504939.00
Payable to res: Project a/c		420438.00	Term Deposit with Fed.Bank	1959075.00
			Term Deposit with PNB	1159463.00
Payable to RCC		78,278.00		
			CURRENT ASSETS &	
			LOANS AND ADVANCES	
			Cash in Hand	18372.00
			Cash at Bank	1110738.06
			Interest Accrued but not due	1554172.00
			Imprest	6000.00
			Rent Deposits	30000.00
TOTAL		40054703.14	TOTAL	40054703.14

Vide my report of even date attached.

Thiruvananthapuram
9 November 2012

Finance Manager
(Projects)

DIRECTOR

T.AJITH KUMAR B.Com, FCA
CHARTERED ACCOUNTANT
MEM. NO: 209348

REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM
(Reg.No.567/81)

Foreign contribution for Research Projects
Receipts and Payments Account for the
year ended on 31st March 2012

RECEIPTS	Amt (Rs)	PAYMENTS	Amt (Rs)
To Opening Balance:-		By Project Expenses:-	
Cash in Hand	54009.00	“ Revenue Expenses paid	10636425.00
Cash at Bank	1495577.82		
		“ Capital Expenses paid	258222.00
Foreign Receipts for various Projects (As per Schedule attached)	10765188.24		
Recovery from Salary	274999.00	Paid to RCC	392276.00
Other Advance Recovered	49500.00	Salary Recovery Account	298789.00
Donation received for RCC	1225499.00	Other Advances paid	54500.00
Interest Received	89497.00	Paid to Research Projects	472339.00
		Sales Tax paid	6250.00
		Donation for RCC Paid	1147221.00
TDS deducted	16388.00	TDS paid	16388.00
Receipt from RCC	114308.00	To Closing Balance:-	
Receipt from Research Project	326554.00	Cash in Hand	18372.00
		Cash at Bank	1110738.06
TOTAL	14411520.06	TOTAL	14411520.06

Vide my report of even date attached.

Thiruvananthapuram
9 November 2012

Finance Manager
(Projects)

DIRECTOR

T.AJITH KUMAR B.Com, FCA
CHARTERED ACCOUNTANT
MEM. NO: 209348

T.AJITH KUMAR B.Com, FCA
CHARTERED ACCOUNTANT

Chaitaniya,
T.C.54/2214-2
Sreedharan Pillai Road
Pappanamcode P.O.
Thiruvananthapuram - 695 018
Telephone: 0471-2495939
Mobile: 9349990489
E-mail: ajithkumarca@yahoo.com

AUDITOR'S REPORT

1. I have audited the Balance Sheet of the Project Cell of Regional Cancer Centre, Thiruvananthapuram as at 31st March, 2012 and the Income and Expenditure Account together with the Schedules thereon for the year ended on that date.
2. Subject to :-
Confirmation of the different Project Account Balances
 - a. I have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.
 - b. In our opinion proper books of accounts have been maintained by the Project Cell.
 - c. The Balance Sheet and the Income and Expenditure account dealt with by this report are in agreement with the books of accounts maintained and as checked by me.

Thiruvananthapuram
9 November 2012

T.AJITH KUMAR B.Com, FCA
CHARTERED ACCOUNTANT
MEM. NO: 209348

REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM
(REG. No. 567/81)
PROJECT CELL
(Financial Assistance received from
National Agencies for Research Projects)
Balance Sheet as on 31st March 2012

Liabilities	Amt (Rs. Ps.)	Amt (Rs. Ps.)	Assets	Amt (Rs. Ps.)	Amt (Rs. Ps.)
Capital Fund		9963577.62			
			Fixed Assets:- Sch-2		183085.46
R&D Fund -Sch.5		13179191.05			
			Foreign Contribution		
Income & Expenditure Account		14011787.93	Receivable Account		420438.00
Training Fund(Schedule-6)		10213254.75	TERM DEPOSITS :		
			Syndicate Bank	1095758.35	
Projects(Deductions)		3017747.53	Union Bank of India	1000000.00	
			SBT	48102150.00	
Current Liabilities			Punjab Nat. Bank	4623662.00	54821570.35
Security Deposits	64037.00				
Project Balances as per Sch-I	39711303.11	39775340.11	Cash in Hand - Sch-3		12488.00
Salary Recovery		240.00	Cash at Bank - Sch-4		23356146.65
			Rent Deposit		45000.00
			Other Advance		500.00
			Interest Accrued but not Due		4824465.00
			TDS		6497445.53
TOTAL		90161138.99	TOTAL		90161138.99

Vide my report of even date attached

Thiruvananthapuram
9 November 2012

Finance Manager
(Projects)

DIRECTOR

T.AJITH KUMAR B.Com, FCA
CHARTERED ACCOUNTANT
MEM. NO: 209348

PROJECT CELL
REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM
(REG. No. 567/81)
Income and Expenditure Account
for the year ended on 31st March 2012

Expenditure	Amt (Rs. Ps.)	Income	Amt (Rs. Ps.)
Salary Paid	359275.45	Income from Projects	1961962.00
Travelling Expenses	1600.00	Interest received	6297939.35
Audit Fee	29000.00		
Printing & Stationery	2845.00		
Computer Stationery	2736.00		
Postage & Telephone Expenses	593.00		
Other Miscellaneous Expenses	5942.90		
Depreciation	24389.70		
Excess of Income Over Expenditure	7833519.30		
TOTAL	8259901.35	TOTAL	8259901.35

Vide my report of even date attached

Thiruvananthapuram
9 November 2012

Finance Manager
(Projects)

DIRECTOR

T.AJITH KUMAR B.Com, FCA
CHARTERED ACCOUNTANT
MEM. NO: 209348

ACKNOWLEDGEMENTS

Ministry of Health & Family Welfare, Government of India
Ministry of Information Technology, Government of India
Department of Science and Technology, Government of India
Council of Scientific and Industrial Research, Government of India
Department of Biotechnology, Government of India
Director General of Health Services, Government of India, New Delhi
Department of Health & Family Welfare, Government of Kerala
State Planning Board, Government of Kerala
Director of Health Services, Government of Kerala, Thiruvananthapuram
World Health Organisation, Geneva, Switzerland
International Agency for Research on Cancer (IARC), Lyon, France
Union for International Cancer Control (UICC) Geneva, Switzerland
World Health Organisation, Regional Office, New Delhi
Stony Brook University, New York, USA
National Cancer Institute, Bethesda, Maryland, USA
Memorial Sloan-Kettering Cancer Centre, New York, USA
National Cancer Centre, Singapore
Health Research Foundation, Japan
Kagoshima University, Japan
Finnish Cancer Society, Finland
Indian Council of Medical Research, New Delhi
Atomic Energy Commission, Government of India
Bhabha Atomic Research Centre, Bombay
Indian Space Research Organisation
Sree Chitra Tirunal Institute of Medical Sciences & Technology, Thiruvananthapuram
Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram
Centre for Cellular and Molecular Biology, Hyderabad
University of Kerala, Thiruvananthapuram
Kerala University of Health Sciences, Thrissur
Mahatma Gandhi University, Kottayam
University Grants Commission
Kerala State Committee on Science, Technology and Environment, Thiruvananthapuram
C-DAC, Thiruvananthapuram
Centre for Earth Science Studies, Thiruvananthapuram
Medical College, Thiruvananthapuram
Sree Avittam Thirunal Hospital for Women and Children, Thiruvananthapuram
Dental College, Thiruvananthapuram
Department of Economics and Statistics, Kerala
Drugs Controller, Thiruvananthapuram
College of Pharmaceutical Sciences, Thiruvananthapuram
Corporation of Thiruvananthapuram
Regional Cancer Association, Thiruvananthapuram
Asianet TV
Kairali TV
Care Plus, Thiruvananthapuram
Asraya, Thiruvananthapuram
Navoothan Charitable Foundation
Prathyasa, Thiruvananthapuram
SDM Cancer Relief Fund, California
All our well-wishers and friends



REGIONAL
CANCER
CENTRE

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