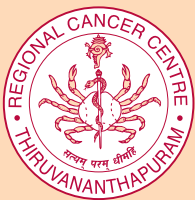


**OVER THREE DECADES OF
CHANGING LIVES**



REGIONAL CANCER CENTRE
Thiruvananthapuram, India

ANNUAL REPORT 2016-17



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

- 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 2016-2017



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

REGIONAL CANCER CENTRE

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Published by
Director, Regional Cancer Centre, Thiruvananthapuram

CONTENTS

	Page No.
I Director's review	vi
II RCC Profile at a Glance	ix
III Divisions	iv
1. Radiation Oncology	1
2. Surgical Oncology	3
3. Medical Oncology	5
4. Paediatric Oncology	6
5. Pathology	8
6. Imageology	10
7. Nuclear Medicine	11
8. Anaesthesiology	12
9. Radiation Physics	13
10. Clinical Laboratory Services	15
11. Microbiology	17
12. Transfusion Medicine	18
13. Palliative Medicine	19
14. Dental Care	20
15. Nursing Services	21
16. Clinical Services & Medical Records	22
17. Community Oncology	25
18. Cancer Research	27
19. Cancer Epidemiology & Biostatistics	30
20. Library & Information Services	35
21. Information Systems	36
IV Outreach Centres	
i. E.C.D.C., Ernakulam	37
ii. E.C.D.C., Palakkad	37
iii. N.B.R.R., Karunagappally	38
V Multidisciplinary Clinics	39
'A' Clinic (Haematological, Lymphoreticular, Bone & Soft tissue Sarcoma)	40
'B' Clinic (Head & Neck)	41
'C' Clinic (Breast & Central Nervous System)	42
'D' Clinic (Gynaec, Genitourinary & Others)	43
'E' Clinic (Chest & Gastrointestinal)	44
'F' Clinic (Paediatric Oncology)	45
'G' Clinic (Thyroid)	46
VI Patient Welfare Services and Public Relations Activities	47
VII Honours, Awards and Recognitions Received	48
VIII Functions, Workshops & Conferences Organized	50
IX Gallery	51
X Conferences Attended and Papers Presented	52
XI Ongoing Research Projects	60
XII Publications	72
XIII Administration, Standing Committees & Right to Information Act	80
XIV Accounts	94
XV Acknowledgements	111

GOVERNING BODY

1. Shri. Oommen Chandy (till 24 May 2016)
Hon'ble Chief Minister of Kerala
Chairman
2. Shri. Pinarayi Vijayan (from 25 May 2016)
Hon'ble Chief Minister of Kerala
Chairman
3. Shri.V.S. Sivakumar (till 24 May 2016)
Hon'ble Minister for Health, Family Welfare and Devaswoms,
Government of Kerala
Vice-Chairman
4. Smt. K.K.Shailaja Teacher (from 25 May 2016)
Hon'ble Minister for Health and Social Justice,
Government of Kerala
Vice-Chairman
5. Shri. Rajeev Sadanandan, IAS
Additional Chief Secretary to Government,
Health & Family Welfare Department
Government of Kerala
Alt.Vice-Chairman
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Secretary, Finance (Resources)
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Government of Kerala
Member
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Government of India
Member
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14. Dr. Thomas Mathew
Principal, Government Medical College Thiruvananthapuram
Member
15. Dr. Paul Sebastian
Director, Regional Cancer Centre, Thiruvananthapuram
Convener

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1. Shri. Rajeev Sadanandan, IAS
Additional Chief Secretary to Government
Health & Family Welfare Department,
Government of Kerala
Chairman
2. Shri. Minhaj Alam, IAS
Secretary, Finance (Resources)
Finance Department, Government of Kerala,
Government of Kerala
Member
3. Shri.V.S. Senthil, IAS
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Thiruvananthapuram
Member
5. Dr.Thomas Mathew
Principal, Government Medical College,
Thiruvananthapuram
Member
6. Dr. Paul Sebastian
Director, Regional Cancer Centre,
Thiruvananthapuram
Convener



Dr. Paul Sebastian
Director

DIRECTOR'S REVIEW

The Regional Cancer Centre, Thiruvananthapuram (RCC), is an autonomous scientific institution sponsored jointly by the Government of Kerala and the Government of India receiving

financial assistance from both. During the period under report, the 36th year of RCCs crusade against cancer, we provided specialized cancer care to 2,50,526 patients including 16,255 newly registered cases.

We witnessed a steady increase in patient flow with a record number of new patient registrations and review cases during the period. The foremost achievement during the period was the introduction of a Multi-Disciplinary Tumour Board (MDTB) system, in November 2016, to ease the diagnosis and staging of cancers and also to formulate a comprehensive treatment and follow up plan through discussions and consensus. This system is in compliance with international standards so that the best of cancer care from diagnosis to recovery through treatment is ensured.

Institutional infrastructure was also upgraded to sustain the state-of-the-art cancer care services. Transferring of the various site-specific clinics from the old building to the enhanced physical space of the newly commissioned OP block was also completed during the period. Infosys Foundation extended grants worth Rs. 5.25 crores to set up an 'Infosys Chair' at RCC, towards promotion of research, advanced training and other academic pursuits by the faculty and students. Operations of our peripheral centre, ECDC (Palakkad) have been shifted to the newly constructed building donated by Palakkad Jilla Panchayat. A plateletpheresis instrument 'Hemonetics cell separator' was installed for efficiency in blood collection process. Refrigerator Centrifuge (REMI C-24 Plus), upright fluorescent microscope, rigid video endoscopic examination system for head and neck cancer examinations and high definition laparoscopic unit to augment minimally invasive surgical facilities were the other additions.

Patient welfare schemes benefitted 13,286 new patients to avail treatment worth Rs. 70.81 crores through various State and Central government schemes such as Cancer Suraksha Scheme, Chis Plus, Karunya Benevolent Fund, Sukrutham, Thalolam, Scheduled Tribe Patient Fund, Snehasanthwanam for Endosulfan Victims, Prime Minister's Relief Fund, Health Minister's Rashtriya Arogya Nidhi and Health Minister's Discretionary Fund.

The Centre continued its partnering with community through outreach plans and programmes. We continued to advocate tobacco-free Kerala through multifarious activities. We continue to be recognized for delivering trainer-trainee programmes in control and prevention of common cancers. Cancer control at the community level were met through 414 cancer detection programmes and 277 cancer education programmes. In addition to the existing training programmes, two new advanced training courses were also commenced in Clinical Laboratory and Blood Banking & Transfusion technologies.

Regular in-house academic events were supplemented with a handful of programmes in connection with World No Tobacco Day, National Cancer Awareness Day, World Cancer Day and International Childhood Cancer Day. Topics like upper gastrointestinal cancers, acute pain management, prevention and control of oral cancer, oncopathology, ultrasound guided regional anaesthesia, precision radiotherapy and healthcare associated infections were dealt with in various seminars and workshops during the report period.

RCCs collaboration with Centre for Cellular and Molecular Biology, Hyderabad had resulted in a UK patent (Patent No: GB2509682) for an invention related to biomarkers useful for detection of types, grades and stages of human breast cancer. This invention is also related to the development of identified biomarkers as a miRNA chip for the early and accurate breast cancer diagnosis. RCC and HLL Life Care Ltd. jointly received 7th National Award for Technology Innovation (Ministry of Chemicals and Fertilisers, Govt. of India) in recognition for developing a cervical spacer for reducing radiation dosage during brachytherapy. Many of our professionals have also earned prestigious distinctions. Smt. Sreelekha R, Chief Nursing Officer has received the Florence Nightingale award for her contributions towards Oncology Nursing Services from the Hon'ble President of India. Dr. Ramadas K, Medical Superintendent, Smt. Sreelekha R, Chief Nursing Officer and Smt. Shiji Kumari NG, Staff Nurse received the Daily News and Analysis (DNA) award for creative achievement in the fight against cancer. Dr. Chandramohan K (Additional Professor) received Hari Om Ashram Prerit Dr.S Rangachari Research Endowment award instituted by Association of Surgeons of India. Many of our faculty, students and researchers also earned merits for papers presented in academic circles. Two of our research scholars received PhDs.

The Centre was credited with a good number of scientific publications as an academic outcome of faculty, residents and researchers. A number of 173 publications during the period covered 90 journal articles (83 published in indexed peer-reviewed national and international journals), 67 conference papers, and academic dissertations & theses. Out of the 146 ongoing research projects undertaken by the Centre, 37 were extramurally funded projects.

Justice P.Sathasivam (Hon. Governor of Kerala), Shri. Pinarayi Vijayan, Hon'ble Chief Minister of Kerala, Smt. K.K. Shailaja Teacher, Hon'ble Minister for Health and Social Justice, Shri. Kris Gopalakrishnan, Executive Vice chairman, Infosys, Dr. Christopher Booth, Dr. Joseph Del Paggio (Queens University, Ontario, Canada), Prof. Manoj Gupta (Head, Department of Radiation Oncology, Regional Cancer Centre, Indira Gandhi Medical College, Shimla) were the distinguished visitors during the period.

The Centre has taken the advantage of philanthropy to support patients' journey through treatment and healing. The contributions RCC-based charities like Asraya, Care Plus and Kanivu were continued. Donations for patient welfare from schools, colleges, banks and other institutions of repute gained momentum, which further improved the lives of patients, survivors and their families.

I am concluding this report, which highlights the activities, advances and achievements of various divisions, clinics and peripheral centres and the audited accounts of RCC for the period 2016-17. This report showcases the continuous improvement and outcomes of our Centre through working together, sharing knowledge and expertise.



Dr. Paul Sebastian

Director

RCC Profile at a Glance

- 16,255 new cases
- 2,34,271 review cases
- 835 daily average patient visits
- 11,416 in-patient admissions
- 48,013 pathology reports
- 65,286 imaging studies
- 64,992 nuclear medicine studies
- 4,00,959 clinical laboratory investigations
- 31,289 microbiology investigations
- 48,357 units blood products issued
- 3492 cytogenetics, FISH & RTPCR based diagnostic studies
- 7141 patients were treated with external radiotherapy
- 1482 brachytherapy procedures
- 6539 surgical and 2045 endoscopic procedures
- 10,572 patients were administered chemotherapy
- 41 bone marrow transplantations
- 33 residents in Medical, Paediatric and Surgical Oncology superspeciality courses
- 49 residents in Anaesthesia, Pathology, Radiodiagnosis and Radiotherapy postgraduate courses
- 25 PhD scholars
- 414 cancer detection programmes and 277 cancer education programmes
- 150 ongoing research projects
- 24 hour pharmacy services
- 24 hour chemotherapy services

Major Diagnostic & Treatment Facilities Available

DIAGNOSTIC FACILITIES

Pathology

- Surgical pathology
- Cytopathology
- Haematopathology
- Molecular pathology: Flow cytometry, FISH, PCR, RT/PCR

Imageology

- MRI
- Multidetector CT
- Digital mammography with prone biopsy table & mammotome
- Stereotactic mammography unit
- Ultrasound machines
- X-ray units
- Computed radiography system
- Picture Archiving and Communication System (PACS)

Nuclear Medicine

- PET/CT Scan
- 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
- VITROS 5.1 FS chemistry system
- Helena SAS 3/SAS 4 fully automated electrophoretic system
- Amax destiny plus fully automated coagulation analyser (TCoag)
- ABL flex blood gas analyser (Radiometer)
- Shimadzu HPLC system
- Heraeus megafuge 16R refrigerated centrifuge
- Deep freezers

Transfusion Medicine

- NACO approved fully automated blood bank
- Blood irradiator
- Cryofuge
- Platelet apheresis
- Plasma thaw bath
- Automatic component extractor T-ACE, for preparation of leucoreduced products.
- Fully automated ELISA machine
- Automated haematology analyser
- Hemonetics cell separator

Microbiology

- Automated blood culture system (BacT/Alert)
- Automated identification and sensitivity testing (VITEK)
- Enzyme Linked Fluorescent Assay (VIDAS)
- Microscopy, routine culture & sensitivity tests, fungal culture, AFB culture, Surveillance culture

Cancer Research

- Cytogenetic studies
- FISH
- RTPCR

TREATMENT FACILITIES

Radiation Oncology

- Linear accelerators
- Telecobalt unit
- IGRT, IMRT/Rapid Arc, SRS/SRT, SBRT, 3D conformal RT & portal imaging
- Total body irradiation (TBI)
- Image guided brachytherapy for cervix cancer
- Digital simulator & CT simulator
- Treatment planning systems

- HDR brachytherapy
- Quality assurance equipment

Surgical Oncology

- Seven 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
- Four bedded bone marrow transplantation unit
- High dependency chemotherapy ward

Paediatric Oncology

- 50 bedded exclusive Paediatric Oncology ward
- A four bedded state-of-the-art ICU

Palliative Care

- Availability of oral morphine in liquid and capsule forms
- Inpatient service and hospice care
- Home care service, rehabilitation, support groups
- Networking of palliative care services throughout Kerala

DIAGNOSTIC & TREATMENT FACILITIES ADDED DURING THE PERIOD

Surgical Oncology

- Rigid video endoscopic examination system for head and neck cancer examinations.
- High definition laparoscopic unit to augment existing minimally invasive surgical facilities

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, Medical Oncology, Pathology, Gynaecologic Oncology, Head and Neck cancers, Cancer Research, Cancer Epidemiology, Nursing, Imageology, Nuclear Medicine, Cytopathology, Microbiology, Radiation Physics, Blood Banking, Laboratory Technology, etc. Community Oncology Division also generates trained manpower by organizing 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 within and outside Kerala. Over 600 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)	6	3 Yrs
DM (Medical Oncology)	3	3 Yrs
DM (Paediatric Oncology)	2	3 Yrs
MD (Radiotherapy)	8	3 Yrs
MD (Anaesthesia)	6	3 Yrs
MD (Pathology)	2	3 Yrs
Fellowship in Head & Neck Surgical Oncology	1	2 Yrs
Fellowship in Gynae-Surgical Oncology	1	2 Yrs
Post Doctoral Certificate Course in Oncopathology	4	2 Yrs
Post MSc Diploma in Radiological Physics	4	2 Yrs
Doctoral Research Programme	30	
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
Cytotechnologist	4	1 Yr
Advanced Training in Clinical Laboratory Technology	8	1 Yr
Advanced Training in Blood Banking & Transfusion Technology	4	1 Yr
Cytotechnician	6	6 Months
Histotechnology	6	9 Months
Medical Documentation Training Programme	10	1 Yr
Certificate Course in Palliative Care	25/session	8 weeks distance learning programme (July & November sessions)

PATIENT WELFARE SCHEMES

Both the Central and State Governments have initiated several schemes to ensure free or subsidized treatment for patients as depicted in the table below.

State and Central Government Schemes (1 April 2016 to 31 March 2017)

Scheme	Patients enrolled during the period (New cases)	Amount spent during the period (Lakhs)	Total no. benefited up to 31 March 2017	Total Amount Spent (Lakhs)
Cancer Suraksha Scheme (Govt. of Kerala)	541	602.68	4390	3336.33
Chis Plus (Govt. of Kerala)	5232	1416.25	27210	6297.81
Karunya Benevolent Fund (Govt. of Kerala)	4179	2929.59	17349	10784.02
Sukrutham (Govt. of Kerala)	2585	1654.62	6043	2947.86
Thalolam (Govt. of Kerala)	13	4.74	83	22.18
Scheduled Tribe Patient Fund (Govt. of Kerala)	24	24.12	305	203.06
Snehasanthwanam for Endosulfan Victims (Govt. of Kerala)	3	4.22	37	33.37
Prime Minister's Relief Fund	204	180.49	953	875.21
Health Minister's Rashtriya Arogya Nidhi (RAN)	505	263.73	2053	770.02
Health Minister's Discretionary Fund	0	0.42	15	7.07
Total	13286	7080.86	58438	25276.93

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

179 patients reported for treatment under the scheme during the period. The scheme stopped enrolling new members in August 2014.

2. Free Drug Bank

The Free Drug Bank functions according to specific guidelines and is monitored by a committee constituted by the Director, RCC. The drug bank provided full or partial help to 3440 patients during the reporting period.

3. Free Food ('Akshayapatram')

Free food was provided to 6750 patients belonging to low socio-economic status during the report period. This was possible due to funds donated by many philanthropic organizations.

4. Support for Paediatric patients

'Prathyasha', a voluntary group working in collaboration with Paediatric Oncology division gave financial and psychosocial support to children and their families.

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 period, 202 patients including 26 new patients received support worth Rs.232.04 lakhs.

DIVISIONS

RADIATION ONCOLOGY

Jayaprakash PG (till 31 August 2016)

Ratheesan K (till 31 March 2017)

Professor & Head

Professors: Ramadas K, Francis V. James

Additional Professors: Beela Sarah Mathew, Aswin Kumar, Sivanandan CD, Rejnish Kumar R, Susan Mathews

Associate Professors: Asha Arjunan, Sajeed A, Kainikkal CT

Assistant Professors: Arun Sankar S, Roshni S, Malu Rafi, Rajeev KR, Tapesh Bhattacharyya, Geethi MH, John Joseph, Priya Balakrishnan

Senior Residents: Aparna MP, Biju Azariah, Milan A, Naveen P. Kumar, Geethu Babu, Lekha M. Nair

Resident Medical Officer: Lijeesh AL



The faculty of this division work as Clinical Oncologists administering all non-surgical treatments for the majority of solid tumours through the four site-specific clinics, Head & Neck, Breast & Central Nervous System, Gynaec,

Genitourinary & others and Chest & Gastrointestinal. There are Radiation Oncology consultants for the Haemato-Oncology & Paediatric Oncology Services.

Clinical services

Include external radiotherapy for 7141 patients and 1482 brachytherapy procedures.

Specialised Radiotherapy Services	
Services	No.
CT based MLC planning	1943
3D CRT	1802
IGRT/IMRT	632
SRS+SRT	33
Total brachytherapy procedures	1482
Image guided brachytherapy	770 (sessions)
Extra-corporeal radiation	12

Academic activities

- MD programme in Radiotherapy with an annual intake of eight seats
- Organized Radiobiology Teaching programme on 30 April 2016, with visiting faculty Prof. Manoj Gupta
- Organized International Workshop on Precision Radiotherapy (IWPR 2016) on Head & Neck Cancers, 15-16 October 2016
- Regular clinical posting for MD and PG diploma radiotherapy students of Government Medical College, Thiruvananthapuram
- Regular tumour board meeting in gynaecologic oncology, urooncology, gastrointestinal oncology and neurooncology with faculty from Medical College, Sree Avittom Thirunal Hospital and SCTIMST, Thiruvananthapuram

Ongoing Doctoral Research Programmes			
Sl. No.	Research Scholar	Title of Study/University	Guide
1	Aswin Kumar	Quality of life of cervical cancer patients undergoing radical radiotherapy/ University of Tampere, Finland.	Dr. Ansi Auvinen
2	Susan Mathews	Image guided adaptive brachytherapy of carcinoma cervix in a resource limited setting/ University of Kerala	Dr. M. Krishnan Nair
3	Sajeed A	Modification of radiotherapy by physical parameters/ University of Kerala	Dr. Raghu Ram K. Nair

SURGICAL ONCOLOGY

Iqbal Ahamed M (till 31 October 2016)

Professor & Head

Shaji Thomas (HOD from 1 November 2016)

Additional Professor & Head

Professor: Paul Sebastian

Additional Professors: Bipin T.Varghese, Paul Augustine, Chandramohan K, Elizabeth Mathew Iype, Balagopal PG, Rema P, Madhu Muralee, Arun Peter Mathew

Associate Professors: Kurian Cherian, Suchetha S

Assistant Professors: Nebu Abraham George, Wagh Mira Sudam, Rexeena V. Bhargavan

Senior Residents: Siva Ranjith J, Deepak Janardhan



Surgical Oncology Division provided specialized site wise surgical expertise for primary treatment of majority of solid organ cancers. A major functional change that took place was the designation of consultants to specific MDT after the introduction of MDT system in the Centre from December 2016. The post operative wards were renovated with latest state-of-the-art beds, monitors and accessories and started minor surgeries in procedure rooms attached to the site specific clinics so as to avoid any delay.

New equipment acquired

- Rigid video endoscopic examination system for head and neck cancer examinations.
- High definition laparoscopic unit to augment existing minimally invasive surgical facilities

Surgical & Endoscopic procedures Academic activities

Major Procedures	
Sites	No.
Head and Neck	1582
Breast	1381
Gastrointestinal	536
Gynaecologic	359
Genito-Urinary	80
Bone and sarcoma	203
Miscellaneous	265
Total	4406

Minor Procedures	
Procedure	No.
Minor cases	2107
LEEP	26
Total	2133

Endoscopy Procedures	
Procedure	No.
Nasopharyngolaryngoscopy	678
Nasal & DL scopy	
Bronchoscopy	202
Oesophagoduodenoscopy	1090
Oesophageal dilatation + stenting	18
Colonoscopy	3
Colposcopy	54
Total	2045

- MCh programme in Surgical Oncology with an annual intake of six seats
- Fellowship in Head & Neck Surgical Oncology
- Fellowship in Gynae-Surgical Oncology
- Training programme for MS, MD and MDS postgraduate students from various universities across the country.
- Organized PG QUEST: National level PG Teaching Programme conducted for MCh/DNB Surgical Oncology students, 4-5 June 2016 (Madhu Muralee: Organizing Secretary)
- Organized KASOCON 2016: 2nd Annual Meeting of Kerala Association of Surgical Oncologists: Update on Upper Gastrointestinal Cancers, 16-17 July 2016
- Organized PG Quest: An exam oriented teaching programme for the MCh/DNB Surgical Oncology students from across the country, 25-26 March 2017

MEDICAL ONCOLOGY

Geetha N

Professor & Head

Additional Professors: Sreejith Nair, Prakash NP

Assistant Professors: Anoop TM, Lakshmi Haridas, Rajitha L

Senior Residents: Unnikrishnan P, Bhavya S. Kumar, Gayathri Gopan

Resident Medical Officer: Lali VS

The Division is responsible for the diagnosis and management of haematological and lymphoreticular malignancies, sarcomas and other solid tumours where intensive chemotherapy is indicated. Medical Oncologists are also responsible for the diagnosis and management of other solid tumours under the C, D and E clinics and 120 solid tumour cases were admitted for administration of high profile chemotherapy and management of emergencies and complications. Dose intense protocols were used for the treatment of all leukaemias

and lymphomas. 2946 patients were admitted for the administration of intensive chemotherapy and management of emergencies and complications. New patients with chronic myeloid leukaemia enrolled in the Novartis Patient Assistance (NOVA) programme were given imatinib free of cost.

2378 new cases and 45,996 review cases were seen during the report period. In the BMT unit, stem cell transplantation following high dose chemotherapy was performed for 41 patients.



Academic Activities

- DM Medical Oncology programme with an annual intake of three seats
- Post graduate students in general medicine, transfusion medicine and radiation oncology was given training in medical oncology.

PAEDIATRIC ONCOLOGY

Kusumakumary P
Professor & Head

Additional Professor: Priya Kumari T
Assistant Professors: Anu Ninan (on leave), Manjusha Nair, Binitha R, Guruprasad CS
Senior Resident: Khushnuma Mullanfiroze



The Division provided comprehensive cancer treatment for childhood malignancies up to the age of 14 years. 620 new cases and 21,924 review cases were seen during the report period. Children are admitted for diagnosis and administration of chemotherapy including high dose chemotherapy. A well equipped paediatric oncology ICU with state-of-the-art facilities is also functioning for providing intensive care to critically ill children. It has two modern ventilators with all advanced facilities, including NAVA (Neurally Adjusted Ventilatory Assist). As part of providing comprehensive paediatric care, services of counsellor, parent support provider and pharmacist are also provided in the division.

Major achievement

A new Paediatric Oncology OPD consisting of four consultation rooms, one counselling room and one patient support group room was inaugurated by Smt. K.K. Shailaja Teacher, Hon'ble Minister for Health & Social Justice, Govt. of Kerala on 29 August 2016. This facility was constructed and furnished with the financial support from FOMAA (Federation of Malayalee Associations of Americas) and South Indian Bank. The OPD wall pictures were sponsored by International Public School, Thiruvananthapuram.

Patient Statistics

Cases	No.
Acute Lymphoblastic Leukaemia	186
Acute Myeloid Leukaemia	34
Chronic Myeloid Leukaemia	4
Brain tumour	85
Osteosarcoma	16
Ewing's sarcoma/PNET	17
Rhabdomyosarcoma	13
Hodgkin's lymphoma	17
Non-Hodgkin's lymphoma	23
Wilms' tumour	27
Neuroblastoma	35
Hepatoblastoma	14
Germ cell tumour	16
Retinoblastoma	15
Soft tissue sarcoma	8
Nasopharyngeal carcinoma	1
Langerhans cell histiocytosis	13
Thyroid	8
Miscellaneous	22
Non malignant	60
Not Yet Diagnosed	7
Total	620

Academic activities

- DM programme in Paediatric Oncology with an annual intake of two seats
- Organized International Childhood Cancer Day on 15 February 2017
- Regular training to the postgraduates of RCC
- Regular training to postgraduate students of other Medical Colleges in Kerala as well as to postgraduate students from SAT Hospital, Thiruvananthapuram and various private Medical Colleges

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. Major visitors included Justice (Retd.) P. Sathasivam, Hon'ble Governor of Kerala, Smt. K.K. Shailaja Teacher, Hon'ble Minister for Health & Social Justice, Govt. of Kerala, Shri. Anandan Niravel (FOMAA President), Shri. Jose Abraham (FOMAA Secretary), Smt. Manju Warriar, Shri. Kochupreman and Dinesh Panikker (cine artists).

PATHOLOGY

Jayasree K

Professor & Head

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

Assistant Professors: Sindhu Nair P, Anila KR, Renu S, Priya Mary Jacob, Jayasudha AV, Neelima Radhakrishnan

Senior Residents: Rari P. Mony, Jayapriya G

The Division provided diagnostic services such as Surgical Pathology, Cytopathology and Haematopathology along with advanced tests such as immunohistochemistry, FISH, flow cytometry and frozen section diagnosis. Second opinion was provided for tissue samples referred from all over Kerala

and neighbouring States. Faculty and students of the division were actively engaged in community oriented cancer control programmes including screening and early detection of cancers.



Diagnostic Services

Surgical pathology	Cytopathology	Haematopathology	Total
21374	18215	8424	48013

Immunohistochemistry (Surgical pathology + Cytopathology + Haematopathology)	Frozen section	FISH+ Her-2	Flow cytometry
37305	1392	53	746

Surgical Pathology

Specimens from RCC	Specimens for Review	Specimens for Second Opinion	Total
12624	7925	825	21374

Cytopathology

FNAC + Fluids	Cervical smear	Sputum	Total
8140	7699	2376	18215

Haematopathology

Bone marrow	Peripheral smear	Slide review	Total
4228	4090	106	8424

Academic activities

- MD programme in Pathology, Post Doctoral Certificate Course (PDCC) in Oncopathology, Quality Excellence Programme for Technicians, Cytotechnology, Histotechnology and Cytotechnician courses.
- Training given to students in MCh Surgical Oncology, DM Medical Oncology, DM Paediatric Oncology and MD Radiotherapy from RCC, MD Pathology students from various Medical Colleges, MDS Pathology students from Dental Colleges, M.Sc. (MLT), B.Sc. (MLT) students and Histotechnology/Immunohistochemistry trainees.
- Organized a CME on Oncopathology on 14 January 2017 (Anitha Mathews: Organizing Secretary)

IMAGEOLOGY

Ramachandran K
Professor & Head

Additional Professor: Venugopal M

Associate Professors: Jiji V, Sumod Mathew Koshy

Assistant Professors: Anil Prahladan, Anitha Sen, Priya A

Senior Residents: Jubiee Raj, Jeslean Jose



The Division has two 500 mA X-ray machines, five portable 60 mA units, three colour doppler ultrasound scanners, mammotome biopsy unit, 16 slice MD CT, 1.5T MRI scanner with MR spectroscopy, digital mammography with prone biopsy table, and a state-of-the-art Doppler Ultrasound machine with facility for elastography contrast studies and transrectal probes. There is facility for MRI under anaesthesia.

Academic activities

- One year Advanced training in Diagnostic Imaging
- The faculty participated in activities like Trivandrum Radiology Club, Neurooncology Club, and Pulmonary Radiology in SUT.

Diagnostic & Interventional Studies

Investigations	No.
Plain X-rays	27756
Barium studies	236
Ultrasound scans	13040
Ultrasound guided intervention	1560
Ultrasound guided prostatic biopsy	288
Doppler studies	600
Digital mammography	6053
CT scans	11761
CT guided intervention	863
MRI scans	3129
Total	65286

NUCLEAR MEDICINE

Pradeep VM

Professor & Head

Additional Professor: Sreekumar A



Nuclear Medicine Division provided therapeutic and diagnostic services involving open radioactive sources. The Division has facilities for imaging (PET-CT and dual head SPECT Gamma camera) as well as for therapy (thyrotoxicosis and high dose therapy for thyroid cancer).

Diagnostic & Clinical Services	
Investigations	No.
PET Scan	1090
SPECT Gamma camera imaging	2744
Radio immunoassay	60349
Thyroid cancer therapy	591
Thyrotoxicosis therapy	218
Total	64,992

ANAESTHESIOLOGY

Rachel Cherian Koshy

Professor & Head

Additional Professors: Mary Thomas, Venugopal A, Mallika Balakrishnan, Sudha P

Associate Professor: Viji S. Pillai

Assistant Professors: Deepthi J. Prabhu, Bhagyalakshmi Ramesh, Rajasree O, Subha R, Frenny Ann Philip, Radhikadevi B

Senior Residents: Silvy Anna Varughese, Jithumol Thankam Thomas

Besides providing good quality anaesthesia for all major oncosurgical and emergency cases, the division provided anaesthesia for minor therapeutic and diagnostic procedures such as MRI, Radiotherapy, Brachytherapy, and CT guided biopsies. New syringe pumps (8 nos.) and ICU ventilators (2 nos.) were acquired.

Academic activities

- MD programme in Anaesthesia with an annual intake of six seats
- Training was given to students from Azeezia Institute of Medical Sciences & Research and Mookambika Medical College, Kulasekharam
- In house BLS and ACLS training for doctors, 27 Aug. 2016
- In house 'Simulation based' training in central venous access procedures, 19 September 2016
- Organized 'Impact 2017: UGRA, Ultrasound Guided Regional Anaesthesia', 28 January 2017. This included live workshop demonstrating eight different blocks including truncal and limb blocks and a hands-on training on sonanatomy. (Mallika Balakrishnan: Organizing Secretary)
- AANPCE Certified one day CME on Acute Postoperative Pain Management, 30 January 2017 (Sudha P: Organizing Secretary)



Anaesthetic Services

Pre-anaesthesia clinic

New cases	4283
Review cases	7197
Total	11,480

Anaesthesia Techniques

Total Intravenous Anaesthesia	901
GA+Epidural	924
GA+Controlled Ventilation	2884
GA+Spontaneous Ventilation	57
Epidural block	24
Combined spinal + epidural	183
Subarachnoid Block	114
Monitored Anaesthesia Care	35
Endotracheal tubes	2682
Supraglottic airway devices	1170
Plexus & other blocks	16
GA + Block	196
Anaesthesia for children (MRI, Radiation therapy, CT simulation)	904
Anaesthesia for brachytherapy	14
Anaesthesia for OGD scopy	12
Central venous access (Non-surgical patients)	63

Surgical ICU

Number of patients on ventilator	114
Total ventilator days	221

Acute pain service

Number of patients with epidural catheters	1131
Number of epidural days	2800

RADIATION PHYSICS

Raghu Ram K. Nair
Professor & Head

Additional Professors: Raghu Kumar P, Saju B

Associate Professor: Thayal Singh Elias

Assistant Professors: Zhenia Gopalakrishnan, Divya KT (on leave),
Giri Purushothaman, Debjani Phani, Shaiju VS, Sharika V. Menon, Sarin B

Activities of the division included calibration and quality assurance of radiotherapy equipment, treatment planning and quality assurance for 3D CRT, IMRT, IGRT, SRS, SRT, SBRT, dose computation, radiation safety in Radiation Oncology, Imageology and Nuclear Medicine divisions, participation in intercomparison and external verification

of dose output of treatment machines using TLD in BARC/ IAEA/Equal ESTRO programmes, daily maintenance, checking and repair of all teletherapy and brachytherapy equipments, intra-operative, intraluminal and mould brachytherapy using Microselectron (V3) HDR.



Patient Services

Treatment given	No. of Patients
2D Radiotherapy	
CT Based Planning	1943
Conventional Planning	2731
3DCRT	1802
IMRT+IGRT	632
SRS+SRT+SBRT	33
Total (Number of patients)	7141
Brachytherapy (Microselectron HDR)	
Gynaecologic	1397
Oesophagus	2
Others	83
Total (Procedures)	1482
Simulation	
CT simulation	4665
Conventional simulation	2866

Ongoing Doctoral Research Programmes			
Sl. No.	Research Scholar	Title of Study/University	Guide
1	Zhenia Gopalakrishnan	Evaluation of radiotherapy treatment planning systems and different dose calculation algorithms for the management of cancer/ University of Kerala	Dr. Raghu Ram K.Nair
2	Divya KT	Evaluation of patient specific dosimetric quality assurance tools in radiotherapy/ University of Kerala	Dr. Raghu Ram K.Nair
3	Shajju VS	Design and fabrication of a head phantom for dosimetric evaluation of radiotherapy treatment plans/ MAHER	Dr. Raghu Ram K.Nair
4	Debjani Phani	Design and development of quality assurance protocol for ultrasound imaging/MAHER	Dr. Raghu Ram K.Nair
5	Sharika V. Menon	Mathematical evaluation and phantom designing of radiotherapy treatments/ Bharathiar University, Coimbatore	Dr. Raghukumar P

CLINICAL LABORATORY SERVICES

Raveendran Pillai K

Additional Professor & Head



The Division is handling routine and specialized laboratory investigations of blood and other body fluids of both inpatients and outpatients by performing analysis, reviewing and interpreting results. The Division offers comprehensive clinical laboratory services in high volume chemistry, haematology and coagulation, serology for infectious diseases, therapeutic drug monitoring, blood gas analysis, automated serum and urine electrophoresis and immunofixation electrophoresis. Phlebotomy section is handling an average 600 outpatients per day and tests were reported with appreciable turnaround time of 60 minutes or less through the implementation of bidirectional interfacing of all major analyzers. Immunosuppressant drug monitoring for bone marrow transplant patients, Methotrexate drug level and 24-hour urine protein estimations were added to the laboratory's test menu.

The laboratory processed 2,01,923 haematology samples, 1,64,596 biochemistry samples, 34,440 urine samples and

has reported 1.94 million tests in the period under report.

Quality assurance

The division has been a participant in the External Quality Assurance Services (EQAS) of Bio-Rad Laboratories, USA for Haematology, Clinical Chemistry and Coagulation. Daily internal quality control is also carried out for Haematology, Clinical Chemistry and Coagulation parameters.

Academic activities

- One year training programme in 'Advanced Training in Clinical Laboratory Technology' with an annual intake of 8 students
- Organized a workshop on 'Quality Control and Quality Assurance in Medical Laboratory Programme' for all laboratory technicians in RCC on 6th August 2016

Investigations done	
Investigations	No.
Biochemistry	1071993
Haematology	778640
Coagulation parameters	15806
Urinalysis	92440
CSF (Sugar & Protein)	518
HbA1C	252
Lipid profile	3224
Creatinine clearance test	1977
24 hour urine protein	790
Methotrexate assay	1921
Cyclosporin assay	101
Serum Immunoglobulin Assay (IgG, IgA & IgM)	7470
Free Kappa	2471
Free Lambda	2471
Serum electrophoresis	2580
Immunofixation electrophoresis	1738
Blood gas (ABG)	1738
Serology	
HIV	13190
HBsAg	13402
HCV	13338

Training provided	
Trainees	No. trained
M.Sc. Biochemistry	1
M.Sc. MLT (Pathology)	4
M.Sc. MLT (Biochemistry)	4
M.Sc. Biotechnology	2
B.Tech. Biomedical	3
B.Sc. MLT	60
Total	74



MICROBIOLOGY

Swapna R. Nath

Additional Professor & Head

Assistant Professor: Sagila SG



The division continued to provide services in Bacteriology, Mycology, Parasitology, Mycobacteriology and Serology. The division also supported the laboratory needs of infection control programmes in RCC.

Academic activities

- Organized 'CHIP 2016: Conference on Healthcare Associated Infections and Prevention', 21-22 October 2016, under the auspices of the Hospital Infection Control Committee, Regional Cancer Centre. (Swapna R. Nath: Organizing secretary)
- Classes for doctors and staff nurses on infection control
- One year Apprenticeship Training for MSc Microbiology students
- Six months internship training for B. Sc. Medical Microbiology students
- Observership for BSc/MSc (Microbiology) students

Investigations done	
Culture, Sensitivity & Other tests	No.
Blood	12600
Exudate	1951
Urine	3577
Throat swab	2294
Sputum	1485
Aspirate	377
Stool	711
Surveillance culture	300
Cerebrospinal fluid	93
Acid-fast bacteria	110
Fungus	150
Widal test	12
Microscopy	3164
Serology	4465
Total	31,289

TRANSFUSION MEDICINE

Vijayalakshmi K

Additional Professor & Head

Assistant Professor: Amitha R

Resident Medical Officer: Rajesh R. Chandran

The Division is a National AIDS Control Organization (NACO) recognized Regional Blood Transfusion Centre with an annual blood collection of over 25,000 units. All collected units were separated into components, most of which were used up by patients in RCC, and the rest were issued to patients in hospitals in Thiruvananthapuram city. The Division conducted inhouse and outreach blood collection camps and awareness classes for blood donor motivation. The Division is a nodal training centre for staff members from Health Services.

Academic activities

- Started one year certificate course on 'Advanced Training in Blood Banking and Transfusion Technology'.

- Conducted teaching programmes for postgraduate students of Pathology, postgraduate and undergraduate students of Laboratory Technology and Nursing specialities.

Clinical services	
Components	No.
Irradiation done	2513
Apheresis done	678
Single Donor Plasma	300
Packed Red Cells issued	15667
Platelet concentrate issued	23757
Fresh Frozen Plasma issued	5390
Cryoprecipitates issued	52



PALLIATIVE MEDICINE

Cherian M. Koshy

Additional Professor & Head

Resident Medical Officer Gr. I: Prasanth CV

Resident Medical Officer: Manju Achamma Varghese



There has been a surge in the total number of patients during the period under report. We see outpatients referred from other clinics as well as in-patients of all clinics. An important switch over to the dispensing of liquid morphine was the introduction of PET bottles from April 2016. Liaison with 'Care-plus', an NGO was continued for taking care to the door step of patients in Thiruvananthapuram and adjoining areas. Sensitiation programmes were organized for 25 participants from the Female Health Supervisory Training Centre, Peroorkada, Thiruvananthapuram and 116 volunteers of the 'Asraya', a NGO.

Patient services

Cases	No.
New	4838
Review	19186
Total	24024

Academic activities

- Certificate course on Essentials of Palliative Care
- Training of Post Graduates of the various specialties from Regional Cancer Centre

DENTAL CARE

Divya Raj

Assistant Professor



The Division works to minimize the oral morbidity of cancer patients before, during and after cancer treatment and throughout the patient's lifetime. Various activities in this division include pre and post treatment dental checkup, counselling of patients with head and neck cancer regarding oral care during and after treatment, dental prophylaxis, post radiation dental care in the form of fluoride application, odontoplasty, management of trismus and management of osteoradionecrosis. Post radiation dental care of radiation caries through daily application of 2% neutral sodium fluoride gel was replaced with the application of fluoride gel once in three month from January 2017.

Clinical Services

Cases	No.
Pre-treatment dental check up	2386
BMT/Stem cell therapy consultation	35
Dental Prophylaxis	450
Management of Trismus	116
Post radiation dental care	3644
Management of Osteoradionecrosis	4
Sodium fluoride gel application	286
Odontoplasty	56

NURSING SERVICES

Sreelekha R

Chief Nursing Officer

Nursing Superintendent: Flower Augustine

The Division rendered patient care in wards, day care services, OPDs, high dependency units, operation theatres and speciality units. The Division with a team of 320 registered nurses strives for patient safety, quality care and continuous improvement of nursing profession. Nurse-driven speciality clinics such as the Head and Neck rehabilitation clinic, Lymphoedema clinic, Stoma care clinic and Central Venous Access Device clinic were continued functioning. Peripherally Inserted Central Catheter (PICC) procedure was done in 1122 patients.

Clinical services

Service	Patient visits
Chemotherapy administration (OP)	67846
Central Venous Access Device Clinic	26572
Lymphoedema clinic	4468
Stoma clinic	4991
Head & Neck Rehabilitation clinic	9484



Training provided for Nurses from outside institutions	
Training	No.
Palliative care	4
Stoma care	2
Cancer chemotherapy	2
CVAD insertion and care	13
BSc Nursing	1674
MSc Nursing	146
Total	1841

CLINICAL SERVICES & MEDICAL RECORDS

Chandrika D

Medical Records Officer-I

Assistant Administrative Officer

(Clinical Services): Sreekumar B

Medical Records Officer-II: Anilkumar K

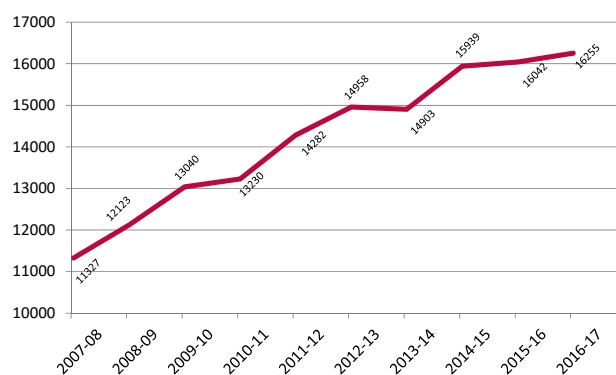
This Division is responsible for maintenance of medical records and management of follow-up appointments, co-ordination of inter-clinic referrals, arranging admissions and issuance of certificates.

Patient Statistics	
Item	No.
New cases	16,255
Review cases*	2,34,271
Total patient visits	2,50,526
Daily average	835
In-Patient admissions	11,416
In-Patient bed**	278
Total bed occupancy	85,424
Average bed occupancy	234
Bed occupancy rate	87
Average patient stay (in days)	7
Hospital death	774
Telemedicine consultation	955

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

** Day care chemotherapy wards and other admissions not meant for overnight stay are not included.

Figure 1: New cases registered (2007-08 to 2016-17)



Patient Registration

Patients were grouped into categories according to their socio-economic status and payment capacities.

Patient categories based on socio-economic status (At the time of registration)		
Category	No.	%
F	1765	10.86
M	4593	28.25
O	3473	21.37
P	192	01.18
R	785	04.83
S	496	03.05
C	2685	16.52
N	2	00.01
K	2264	13.93
Total	16255	100

- F - Minimum payment
M - Subsidised payment
O - Normal rate
P - Private
R - Reimbursable
S - Cancer Suraksha Scheme
C - Comprehensive Health Insurance Scheme (CHIS +)
N -Rashtriya Arogya Nidhi (RAN) Scheme
K - Sukrutham Kerala

New cases registered (Speciality clinic wise)		
Clinic	No.	%
A	2378	14.63
B	2668	16.42
C	2621	16.12
D	2764	17.00
E	3782	23.27
F	620	3.82
G	1422	8.74
Total	16255	100

A – Haematological, Lymphoreticular, bone and soft tissue sarcoma

B – Head & Neck

C – Breast & Central Nervous System

D – Gynaec, Genitourinary & others

E – Chest & Gastrointestinal

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

G – Thyroid

New cases (Age & Sex wise)						
Age Group	Male	%	Female	%	Total	%
0 -14	370	4.6	294	3.5	664	4.1
15-24	250	3.2	271	3.3	521	3.2
25-34	357	4.5	630	7.6	987	6.1
35-44	688	8.6	1349	16.3	2037	12.5
45-54	1425	17.9	2084	25.1	3509	21.6
55-64	2291	28.8	2033	24.5	4324	26.6
65-74	1902	23.9	1213	14.6	3115	19.2
75+	674	8.5	424	5.1	1098	6.7
Total	7957	100	8298	100	16255	100

Review cases (Speciality clinic wise)		
Clinic	No.	%
A	45996	19.63
B	33773	14.42
C	48567	20.73
D	33259	14.20
E	35009	14.94
F	21924	9.36
G	15843	6.76
Total	234271	100

New cases registered (Religion wise)						
Religion	Male	%	Female	%	Total	%
Hindu	4616	58.01	4957	59.74	9573	58.89
Muslim	1776	22.32	1560	18.80	3336	20.53
Christian	1565	19.67	1781	21.46	3346	20.58
Total	7957	100	8298	100	16255	100

New cases registered (Gender wise)									
Clinic	A	B	C	D	E	F	G	Total	%
Male	1419	2016	224	986	2698	348	266	7957	48.95
Female	959	652	2397	1778	1084	272	1156	8298	51.05
Total	2378	2668	2621	2764	3782	620	1422	16255	100

Referral System

RCC is a tertiary level referral hospital and patients were referred from other government and private hospitals.

Referred cases		
Referred from	No.	%
Teaching hospitals	3856	23.72
District/General Hospitals	983	6.05
Other Government Hospitals	1207	7.43
VSSC/ESI/CGHS/ Railway Hospitals	387	2.39
ECDC and Peripheral Centres	54	0.33
Other Cancer Centres	52	0.31
Private Doctors	906	5.57
Private Hospitals	7911	48.67
International (Maldives+Middle East)	194	1.19
Self/RCC	705	4.33
Total	16,255	100

Referred cases (Geographical area wise)

Kerala	No.	%
Thiruvananthapuram	3757	23.11
Kollam	2782	17.11
Pathanamthitta	869	5.35
Alappuzha	933	5.74
Kottayam	578	3.56
Idukki	347	2.13
Ernakulam	617	3.80
Thrissur	968	5.96
Palakkad	1037	6.38
Kozhikode	449	2.76
Malappuram	1112	6.84
Wayanad	108	0.66
Kannur	317	1.95
Kasargod	179	1.10
Other States		
Tamil Nadu	1908	11.74
Karnataka	29	0.18
Lakshadweep	15	0.09
Others	56	0.34
International		
Maldives	178	1.09
Middle East	16	0.09
Total	16,255	100

Training provided

Training in medical records and patients services 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
Associate Professor: Jayakrishnan R

The Division gives emphasis on primary and secondary prevention of cancers and takes key initiatives for cancer control activities through human resource development programmes. To fulfil these objectives, the Division conducted trainer-trainee programmes, community oriented cancer awareness/education programmes and cancer detection camps on a regular basis. Along with this an Early Cancer Detection Clinic (ECDC) is also run by the division.

Cancer Control Activities

Human Resource Development

- **International School of Colposcopy:** Eight Gynaecologists were given one-week hands on training and 151 BSc (MLT) students were given one day orientation programme on VIA, VILI and Colposcopy.
- **Trainer-Trainee Programmes:** 53 trainer-trainee programmes were conducted for health care providers which included doctors, post graduate medical students and paramedical staff from governmental and non-governmental institutions.

Trainer-Trainee programmes		
Categories of Trainees	No. of programmes	No. trained
Doctors	32	587
Nurses and paramedicals	13	209
Community Volunteers (NSS, ASHA workers)	5	971
Police Officers	3	585
Total	53	2352

Early Cancer Detection

During the period under report, 10483 persons attended the Early Cancer Detection Clinic of the Division and 7111 attended outreach camps. The details of cancers and precancers detected and the activities of the colposcopy clinic and oral dysplasia clinic are given in the following tables. Out of the 1540 colposcopy procedures done, HPV infections were detected in 548 persons.

Cancers and Pre-cancers detected			
Sites	ECDC	Camps	Precancers
Oral	149	13	162
Breast	74	8	82
Cervix	50	Nil	50
Others	93	11	104
Total	366	32	398

Oral dysplasia clinic	
Cases detected	No.
Leukoplakia	83
Oral submucous fibrosis	42
Total	125

Colposcopy clinic	
Procedures done	No.
Colposcopy	1540
Colpodirected biopsy	55
Visual inspection using acetic acid and Lugol's iodine	2804 (Camps)
Pap smear	1231 (ECDC)

Cancer Outreach Programmes

102 cancer detection camps were conducted in various parts of the State in which 9223 people underwent screening. Through 48 cancer awareness programmes 6971 trainees were sensitised in cancer control. Apart from these 10 cancer awareness programmes and nine cancer detection camps were conducted in the Idukki district.

Other activities

School based intervention programme against tobacco and alcohol consumption in high school/higher secondary schools of rural Kerala

The objective of this programme was to understand the patterns of tobacco and alcohol use among students and also to assess the effectiveness of school based intervention programmes. The programme is supported by State Health systems Resource Centre, Government of Kerala.

Campaign against substance abuse threat in high schools and higher secondary schools of Thiruvananthapuram District

In collaboration with Jilla Panchayath, Thiruvananthapuram, the Tobacco Cessation Clinic (TCC) in the division took up the initiative to campaign against substance threat in schools of Thiruvananthapuram district. The programme aims to create awareness on the harmful effects of tobacco and alcohol and also offers group counseling sessions for vulnerable students exposed to these habits.

Survey on impact of gutkha ban on tobacco consumption behaviour in Kerala

The overall objective of this study is to assess the effectiveness

of tobacco control initiatives particularly, the ban on sale of gutkha (Commercially available smokeless tobacco) in Kerala. The study also assess the knowledge and attitude regarding gutkha ban, availability of gutkha after the ban and current tobacco consumption practice in the state from the perspective of the vendor and tobacco users. It was funded by Manbhumi Ananda Ashram Nityananda Trust (MANT), Kolkata.

World No Tobacco Day (31 May 2016)

State level programme jointly organized by Kerala State Health Service Department, Sree Chitra Tirunal Institute of Medical Sciences and Technology, Regional Cancer Association, Kerala Voluntary Health Service and Tobacco free Kerala, was inaugurated by Smt. K.K. Shailaja Teacher, Hon'ble Minister for Health and Social Justice, Govt. of Kerala.

Breast Cancer Awareness Month (October 2016)

Five breast awareness programmes and six breast screening camps were conducted. The division also participated in the free breast clinic organized by RCC.

National Cancer Awareness Day (7 November 2016)

A one day workshop conducted on 'Updates on Prevention and Control of Oral Cancer' was attended by 220 dental surgeons and postgraduate students.

World Cancer Day (4 February 2017)

RCC in connection with Regional Cancer Association gave cancer awareness and tobacco awareness to 320 ASHA workers and 20 social justice volunteers of Govt. of Kerala, to enable them to create awareness in the rural areas of Kerala.

CANCER RESEARCH

Kannan S

Professor & Head

Additional Professor: Sujathan K

Associate Professors: Lakshmi S, Hariharan S

Assistant Professors: Sreelekha TT, Guruvayoorappan C

Six research groups are working in this Division.

The Laboratory of Cell Cycle Regulation and Molecular Oncology is focusing on the molecular mechanisms involved in oral cancer development, progression and identifying molecular signatures capable of predicting disease prognosis to help personalized and the risk adjusted therapy for oral cancer. Currently the laboratory is concentrating on two projects. The first one explores the NF κ B and STAT3 signaling biology at functional and prognostic aspects in oral cancer. NF κ B or STAT3 target gene identification and its significance in oral cancer progression is the vital objective of this study. The second project is the continuation of the previous study on miRNA expression signature in oral cancer. The microRNA signature obtained for oral carcinoma is validated in established oral cancer cell lines and consequently aim to decipher the biological significance of the altered miRNAs in oral carcinoma. Furthermore, the lab initiated studies on the metabolic regulation in oral cancer and the role of oral microbiome in cancer development. In addition to research activities, the lab is also providing routine molecular service on fusion gene transcript analysis for leukemia patients.



The Laboratory of Molecular Cytopathology and Proteomics mainly focuses on identifying early cancer detection methods in cancers of cervix, lung and breast. In cervix, proteome based candidate markers for carcinoma and its precursor lesions are being defined. A collaborative study with NIIST has developed a technique incorporating gold nanoparticle and Surface Enhanced Raman Spectroscopy (SERS) to differentiate cervical intraepithelial lesions which resulted in designing a portable device with in-built micro Raman system for cervical cancer screening. For lung cancer, a technique to fish out the whole cell content of sputum samples has been standardized and the expression pattern DNA replication licensing proteins characterized in these cells which may helpful for subtyping lung carcinomas. The biological role of Galectin-3 in tumor invasion and stem cell regulation in triple negative breast cancers is also being evaluated with the aim of disease prognostication.

The Laboratory of Molecular Medicine has been undertaking studies on the elucidation of cell signaling pathways in the development of breast cancers. Primary cell lines of breast



cancers are established to study the effect of plant products in development and progression of these tumors. Effect of anacardic acid is being evaluated in primary cell lines derived from breast cancer tissues. Another study is ongoing which analyzes the therapeutic potential of α - mangostin and Garcinone E from Mangosteen against oral cancer metastasis. A new project has been initiated for studying the mutation status of EGFR, HKRAS and BRAF in lung cancer patients in our population.

The Laboratory of Cytogenetics and Molecular Diagnosis is mainly working on cytogenetics and molecular markers in leukemia. Research on chromosomal abnormalities in various leukaemia identified plenty of chromosomal abnormalities which are very specific to some types of leukaemia. Prognostic significance of mutation in FLT3, NPM1, CEBPA, IDH, DNMT3A, WT1 genes were performed in AML patients. Cytogenetic and molecular studies on paediatric leukaemia, imatinib resistance in CML patients, molecular mechanism in blastic transformation in CML, drug resistance in AML, cytogenetic and molecular studies in inhabitants of high natural background radiation area, Karunagappally, Kerala are also being studied. Apart from these, this lab is rendering diagnostic Cytogenetic and FISH services to Leukemia and other genetic disease patients.

The Laboratory of Biopharmaceuticals & Nanomedicine is mainly focusing on new drug discovery, novel drug delivery systems and innovative cost effective technology creation. The laboratory has isolated some effective antitumor and immunomodulatory polysaccharides such as PST001 and PSP001 from plants. PST-Nanoconjugates have been developed for targeted anticancer drug delivery. PST001 conjugated paclitaxel nanoconjugates are being studied for its drug release and activities. The nanopreparation of Imatinib with PST001 is shown to be more effective and is validated by wet lab experiments as well as in silico methods. Iron, silver and copper conjugated metallic nanoconjugates are shown to be promising substrates for Magnetic Resonance Imaging (MRI), Surface Enhanced Raman spectroscopy (SERS) and antimicrobial activities respectively. Polysaccharide scaffolds have been developed for 3D cell culture and stem cell differentiation. Both PST001 and PSP001 in the nanoform

are being studied for the siRNA delivery potential. The lab also designed a multiplex PCR technique to detect multiple translocations and mutations in a single step which reduces time, cost and amount of sample required.

The Laboratory of Immunopharmacology and Experimental Therapeutics aims to explore the possibility of using natural products to mitigate the harmful side effects of radiation. The laboratory at present focusing on mitigation of esophagitis and radiation induced lung injury using phytochemicals in animal models. These preclinical trials may result in reducing odynophagia and dysphagia and thereby improve the QOL of patients receiving thoracic irradiation. A study has been initiated in this direction to find out the protective effect of *Biophytum sensitivum* and Amentoflavone on radiation induced esophagitis. The laboratory will also focus on the protective effect of the natural products on the innate immune cells during radiation induced lung injury (RILI).

New Equipment Acquired

Upright Fluorescent Microscope - 1
Refrigerator Centrifuge (REMI C-24 Plus) - 1

Diagnostic services provided	
Services	No.
Karyotype analysis	
Bone marrow samples	1046
Peripheral blood samples	40
Quantitative RT-PCR for bcr-abl	746
Qualitative RT-PCR for bcr-abl & pml-rara	794
Fluorescent In Situ Hybridization	866

Academic activities

- Two research scholars were awarded PhD.
- Training was provided for:

MD/MS/DM students (Dissertation work)	21
M.Sc. (Biotech)/Life Science students (3 months project work)	46
B.Sc. (MLT) students	311

Ongoing Doctoral Research Programmes			
Sl. No.	Research Scholar	Title of the Study/University	Guide
1.	Dileep Kumar U	Studies on the biology of carcinoma of buccal mucosa and tongue/ University of Kerala.	Dr. S. Kannan
2.	Christo Rajan	Study of the significance of miRNA expression pattern in oral carcinoma/University of Kerala.	Dr. S. Kannan
3.	Sinto MS	Biology of NFκB and STAT3 transcriptional factors in oral carcinogenesis/University of Kerala.	Dr. S. Kannan
4.	Manasa VG	Biological significance of miRNAs altered in oral carcinoma/ University of Kerala	Dr. S. Kannan
5.	Saritha VN	Proteome analysis in squamous cell carcinoma and its precursor lesions of cervix./M.S. University	Dr. K. Sujathan
6.	Rajesh SV	Study of cell cycle regulatory proteins in thyroid nodules./M.S. University	Dr. K. Sujathan
7.	Akhil BS	Phytochemical and biological studies of selected plants of Verbanaceae/Manipal University.	Dr. K.Sujathan
8.	Jeethi Ram	Galectin driven stem cell regulation in triple negative breast cancers/Manipal University.	Dr. K.Sujathan
9.	Aswathy CG	A study of gene expression profile in inhabitants of high background radiation of Karunagappally, Kerala, India/Mahatma Gandhi University	Dr. S. Hariharan
10.	Krishnachandran R	Blastic transformation of chronic myelogenous leukemia: Cytogenetic and molecular mechanisms orchestrating the disease progression/University of Kerala	Dr. S. Hariharan
11.	Preethi G. Nath	Identification of novel prognostic markers in pediatric leukemia/ University of Kerala	Dr. S. Hariharan
12.	Akhila Raj	Molecular studies on genes responsible for drug resistance: A study on de novo and relapsed acute myeloid leukaemia patients/ University of Kerala	Dr. S. Hariharan
13.	Geetha Raj	Cytogenetic abnormalities and risk stratification of multiple myeloma patients by FISH technique/University of Kerala	Dr.Hariharan S
14.	Sheeja Varghese	Studies on the molecular mechanisms of antitumour/ immunomodulatory polysaccharide from <i>Mangifera indica</i> / University of Kerala.	Dr.T.T. Sreelekha
15.	Alphy Rose James	Evaluation of molecular basis of drug response in lung cancer cells by gene profiling for targeted personalized medicine /University of Kerala.	Dr.T.T. Sreelekha
16.	Unnikrishnan BS	Application of polysaccharide metal nanoconjugates in cancer detection and therapy/ University of Kerala	Dr.TT Sreelekha
17.	Preethi GU	Chemotherapeutics loaded polysaccharide scaffold as novel tool to fight against cancer/ University of Kerala	Dr.TT Sreelekha
18.	Shiji R	Galactomannan polysaccharide nano-conjugates for imaging and targeted cancer therapy/ University of Kerala	Dr.TT Sreelekha
19.	Abeesh P	Liposome encapsulation of phytochemicals from Ashwagandha (<i>Withania somnifera</i> L.) for improved bioavailability and its potential application in lung cancer treatment by targeting EGFR,Stat3 and NF-κB signaling pathways/University of Kerala	Dr. Guruvayoorappan C

CANCER EPIDEMIOLOGY & BIOSTATISTICS

Aleyamma Mathew

Professor & Head

Associate Professors: Jayalekshmi P, Latha PT,
Preethi Sara George

Assistant Professors: Padmakumary Amma G, Kalavathy MC,
Jagathnath Krishna K M

The Division runs the hospital and population based cancer registries (HBCR & PBCR), conducts cancer surveillance programmes (Hospital-Based Pattern of Care and Cancer Survival Studies and Population-based Cancer Survival studies), cancer epidemiologic studies, biostatistics studies, provides cancer awareness classes to the community and statistical consultancy to RCC faculty and students, teaches biostatistics to RCC students, provides training in cancer registry operations and conducts doctoral programmes in epidemiology & biostatistics.

The Division prepared Hospital Based Cancer Registry annual reports for the year 2013 and Population Based Cancer Registry annual reports for the years 2012-14. The division also conducted cancer detection programmes and cancer awareness classes in various parts of the State.

HBCR, Regional Cancer Centre, Thiruvananthapuram (2016-2017): System-wise distribution (%) of cancers by Gender

Male N = 7174	System Total = 14495	Female N = 7321
2.36	Brain & Nervous System	1.90
18.78	Oral Cavity & Pharynx	6.30
3.76	Thyroid	15.52
19.39	Respiratory System	3.72
0.49	Breast	28.26
8.13	Oesophagus & Stomach	3.35
12.98	Other Digestive Organs	6.72
3.67	Urinary Tract	1.12
5.92	Reproductive System	17.22
4.18	Bone, Conn. tissue & Skin	2.70
9.38	Leukaemia & Myeloma	7.17
7.10	Lymphoma	3.59
3.88	All Others	2.43

Hospital Based Cancer Registry (HBCR), Regional Cancer Centre, Thiruvananthapuram (2016-2017): Site-wise distribution of patient registration by gender

ICD-10	Site	Male		Female		Total	
		No.	%	No.	%	No.	%
C00	Lip	12	0.2	9	0.12	21	0.1
C01	Base of tongue	17	0.2	3	0.04	20	0.1
C02	Tongue	443	6.2	165	2.25	608	4.2
C03	Gum	120	1.7	91	1.24	211	1.5
C04	Floor of mouth	85	1.2	5	0.07	90	0.6
C05	Palate	49	0.7	12	0.16	61	0.4
C06	Other mouth	282	3.9	119	1.63	401	2.8
C07	Parotid gland	45	0.6	25	0.34	70	0.5
C08	Salivary gland	11	0.2	10	0.14	21	0.1
C09	Tonsil	21	0.3	7	0.10	28	0.2
C10	Oropharynx	134	1.9	5	0.07	139	1.0
C11	Nasopharynx	40	0.6	9	0.12	49	0.3
C12	Pyrimiform sinus	80	1.1	0	0.00	80	0.6
C13	Hypopharynx	54	0.8	35	0.48	89	0.6
C14	Pharynx unspecified	10	0.1	1	0.01	11	0.1
C15	Oesophagus	223	3.1	96	1.31	319	2.2
C16	Stomach	360	5.0	149	2.04	509	3.5
C17	Small intestine	24	0.3	10	0.14	34	0.2
C18	Colon	186	2.6	120	1.64	306	2.1
C19	Rectosigmoid colon	55	0.8	25	0.34	80	0.6
C20	Rectum	263	3.7	170	2.32	433	3.0
C21	Anus & anal canal	9	0.1	8	0.11	17	0.1
C22	Liver	245	3.4	72	0.98	317	2.2
C23	Gall bladder	19	0.3	12	0.16	31	0.2
C24	Other biliary tract	28	0.4	24	0.33	52	0.4
C25	Pancreas	101	1.4	51	0.70	152	1.0
C26	Ill-defined digest. system	1	0.0	0	0.00	1	0.0
C30	Nasal cavity	17	0.2	13	0.18	30	0.2
C31	Accessory sinus	24	0.3	5	0.07	29	0.2
C32	Larynx	325	4.5	21	0.29	346	2.4
C33	Trachea	1	0.0	0	0.00	1	0.0
C34	Lung	1000	13.9	225	3.07	1225	8.5
C37	Thymus	2	0.0	1	0.01	3	0.0
C38	Heart & mediastinum	22	0.3	6	0.08	28	0.2
C39	Ill-defined sites respiratory	0	0.0	1	0.01	1	0.0
C40	Bone of limbs	60	0.8	28	0.38	88	0.6
C41	Other bone	28	0.4	18	0.25	46	0.3

C43	Skin melanoma	32	0.4	22	0.30	54	0.4
C44	Skin other	87	1.2	53	0.72	140	1.0
C45	Mesothelioma of pleura	1	0.0	0	0.00	1	0.0
C47	Peripheral nerves	3	0.0	6	0.08	9	0.1
C48	Retroperitoneum	12	0.2	12	0.16	24	0.2
C49	Connective tissue	90	1.3	71	0.97	161	1.1
C50	Breast	35	0.5	2069	28.26	2104	14.5
C51	Vulva	0	0.0	10	0.14	10	0.1
C52	Vagina	0	0.0	28	0.38	28	0.2
C53	Cervix uteri	0	0.0	466	6.37	466	3.2
C54	Corpus uteri	0	0.0	270	3.69	270	1.9
C55	Uterus, nos	0	0.0	57	0.78	57	0.4
C56	Ovary	0	0.0	420	5.74	420	2.9
C57	Other female genital organs	0	0.0	9	0.12	9	0.1
C58	Malig. Neopl.of placenta	0	0.0	1	0.01	1	0.0
C60	Penis	27	0.4	0	0.00	27	0.2
C61	Prostate	350	4.9	0	0.00	350	2.4
C62	Testis	46	0.6	0	0.00	46	0.3
C63	Other genital organs	2	0.0	0	0.00	2	0.0
C64	Kidney	119	1.7	49	0.67	168	1.2
C65	Renal pelvis	3	0.0	1	0.01	4	0.0
C66	Ureter	4	0.1	3	0.04	7	0.0
C67	Urinary bladder	137	1.9	27	0.37	164	1.1
C68	Other urinary organs	0	0.0	2	0.03	2	0.0
C69	Eye	13	0.2	13	0.18	26	0.2
C71	Brain	165	2.3	136	1.86	301	2.1
C72	Spinal cord	4	0.1	3	0.04	7	0.0
C73	Thyroid gland	270	3.8	1136	15.52	1406	9.7
C74	Adrenal gland	12	0.2	7	0.10	19	0.1
C75	Other endocrine gland	3	0.0	2	0.03	5	0.0
C76	Ill defined sites	27	0.4	20	0.27	47	0.3
C77	Secondary lymph node	90	1.3	31	0.42	121	0.8
C78	Secondary resp.& digestive	19	0.3	17	0.23	36	0.2
C79	Secondary Other sites	24	0.3	24	0.33	48	0.3
C80	Primary unknown	21	0.3	17	0.23	38	0.3
C81	Hodgkin's disease	115	1.6	43	0.59	158	1.1
C82	Follicular NHL	77	1.1	48	0.66	125	0.9
C83	Diffuse NHL	189	2.6	111	1.52	300	2.1
C84	T-cell lymphoma	48	0.7	11	0.15	59	0.4
C85	Other NHL	63	0.9	38	0.52	101	0.7
C88	Malig. immunoproliferative	1	0.0	0	0.00	1	0.0
C90	Multiple myeloma	180	2.5	125	1.70	305	2.1

C91	Leukemia, lymphoid	190	2.6	120	1.64	310	2.1
C92	Leukemia, myeloid	186	2.6	179	2.45	365	2.5
C93	Leukemia, monocytic	47	0.7	46	0.63	93	0.6
C94	Other specified leukaemia	4	0.1	2	0.03	6	0.0
C95	Leukemia, unspecified	66	0.9	53	0.72	119	0.8
C96	Other lymphoid neoplasm	16	0.2	12	0.16	28	0.2
	Total (Invasive)	7174	100.0	7321	100.00	14495	100.0
	Benign tumours	66	8.5	169	17.2	235	13.4
	Borderline malignancy	86	11.0	172	17.5	258	14.7
	In-situ	12	1.5	39	4.0	51	2.9
	Non-neoplastic (pre-malignant conditions & others)	325	41.7	327	33.3	652	37.0
	Diagnosis not confirmed	309	39.6	290	29.5	599	34
	Total (non-invasive)	779	100.0	981	100.0	1760	100.0
	Total no. of Patients	7953	48.9	8302	51.1	16255	51.1

Population Based Cancer Registry (PBCR), Thiruvananthapuram District (2015): Number (#), Crude Incidence Rate (CR) and Annual Age-adjusted Incidence Rate (AAR) per 100,000 persons of leading cancer sites

ICD-10	Site	Male			Female		
		#	CR	AAR	#	CR	AAR
C00-C06	Oral cavity	292	18.4	14.1	132	7.6	5.5
C01-02	Tongue	133	8.4	6.5	57	3.3	2.4
C03-06	Mouth	150	9.4	7.1	69	4.0	2.9
C09-14	Pharynx	122	7.7	6.0	21	1.2	0.9
C15	Oesophagus	78	4.9	3.8	18	1.0	0.7
C16	Stomach	107	6.7	5.2	29	1.7	1.3
C18	Colon	102	6.4	5.1	76	4.4	3.3
C19-21	Rectum	136	8.6	6.7	87	5.0	3.6
C22	Liver	114	7.2	5.6	41	2.3	1.7
C25	Pancreas	59	3.7	3.0	39	2.2	1.7
C32	Larynx	109	6.9	5.2	6	0.3	0.2
C33-34	Lung	340	21.4	16.5	103	5.9	4.3
C40-41,49	Bone & Conn. tissue	46	2.9	2.6	47	2.7	2.6
C43-44	Skin	57	3.6	2.7	43	2.5	1.8
C50	Breast	21	1.3	1.1	916	52.5	39.2
C53	Cervix Uteri	-	-	-	142	8.1	6.0
C54	Corpus Uteri	-	-	-	178	10.2	7.7
C56	Ovary	-	-	-	169	9.7	7.5
C61	Prostate	176	11.1	8.6	-	-	-
C64-66,68	Kidney etc.	52	3.3	2.6	20	1.1	1.0

C67	Urinary Bladder	106	6.7	5.1	22	1.3	0.9
C70-72	Brain & other CNS	49	3.1	2.6	38	2.2	2.0
C73	Thyroid	78	4.9	4.4	311	17.8	14.3
C81-85,96	Lymphoma	161	10.1	8.4	105	6.0	4.7
C90	Multiple Myeloma	73	4.6	3.7	64	3.7	2.7
C91-95	Leukemia	87	5.5	5.2	81	4.6	4.2
C00-96	All Sites	2776	174.8	138.5	3054	175.0	133.2

Cancer screening programmes

Training in early cancer detection and hands on training in visual inspection of cervix, Papsmear collection and breast examination were imparted to 162 Medical Officers from Taluk Head Quarters Hospitals in Punalur and Karunagappally.

The division also conducted 61 cancer detection programmes in Thiruvananthapuram, Kollam, Pathanamthitta, Idukky and Kottayam districts and 72 cancer awareness classes for the general public.

Cancers & pre-cancers detected in cancer detection camps

No. of camps	61
Oral cancer	5
Breast cancer	6
Cervix cancer	2
Cervical pre-cancer	7

Ongoing Doctoral Programmes			
Sl. No.	Research Scholar	Title of Study/University	Guide
1	Subha R Nair	Risk prediction models for the development of breast cancer/University of Kerala	Dr.Aleyamma Mathew
2	Kavitha Chandran C	Effect of multilateral health care strategies on metabolic profile among prediabetics/University of Kerala	Dr.Aleyamma Mathew
3	Devi Vijaya A	Statistical prediction of breast cancer patient survival using artificial neural network models- undergoing course work/ Mahatma Gandhi University	Dr.Aleyamma Mathew
4	Kalavathy MC	Evaluation of Pap smear screening and HPV pattern among women with ASCUS (Atypical Squamous Cells of Undetermined Significance) in Trivandrum, South Kerala/ Mahatma Gandhi University	Dr.Aleyamma Mathew
5	Sreelekha KR	Bayesian Modelling and Posterior Inference for Breast Cancer survival data in Kerala/Mahatma Gandhi University	Dr. Preethi Sara George

LIBRARY AND INFORMATION SERVICES

Vishnu V

Librarian cum Information Officer

The Division carried out a wide range of services to support the clinical, academic and administrative requirements of the Centre. Journals were made accessible electronically by subscribing to various publishing platforms such as ScienceDirect, Wiley Online Library, Oxford University Press, Springer, Informa Health, ASCO, AACR, and Nature Publishing. Subscription to UpToDate Anywhere was also continued. Arrangements were made for the off campus access to the subscribed content.

In addition, the division enabled access to 63 E-journals, 93 E-books and other multimedia resources by forming part of the National Cancer Grid programme of Govt. of India. Core titles of books in print format were procured and institutional online access was enabled for selected titles. Library continued the DELNET membership to meet user demand for articles from non-subscribed journals.

Web-based information services

Information services were strengthened through regular updates in library home page. Details of books, RCC publications, reprints, journal holdings, list of CD/DVD Roms and e-books were made accessible through various links provided in the library page. Link provided to each journal enables direct access to full text of articles. Previous year university examination question papers were made available as online archives for postgraduate/superspeciality students of various disciplines.



Support services

The Division handled all the audio-visual and reprographic requirements of the Centre. Compilation and edition works related to the publication of Centre's annual report (2015-16) were fulfilled.

Information sources	
Document type	Collection as on 31.03.2017
Books, Monographs and Back Volumes	13,134
Current Journals	139
E-Journals	131
E-Books	137
Reprints	7457

INFORMATION SYSTEMS

Sanjeev R

Officer in Charge

The main responsibilities include developing and implementing information technology for the hospital. It supports and maintains operational systems and trains hospital staff in the use of information technology.

Activities of the Division 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 equipment, scanning of case sheets, etc.

Hospital Information System (HIS)

HIS in RCC, known as TEJHAS (Telemedicine Enabled Java based Hospital Automation System) is a network of computers, used to collect, process and retrieve patient care and administrative information on all hospital activities from various departments to satisfy the functional requirements of the users.

EARLY CANCER DETECTION CENTRE (ECDC)

Ernakulam

Latha A

Cytopathologist

Early Cancer Detection Centre, Kaloor, Ernakulam primarily aims at screening and early diagnosis of cancer cases through cervical smear examination, oral scrape smear examination, fine needle aspiration cytology, colposcopy and fluid cytology. In addition to the daily clinics of about 60 patients per day, ECDC conducted cancer detection camps in the rural and urban areas of Ernakulam and neighbouring districts, cancer awareness classes, seminars and health talks. The monthly follow up clinic conducted on every 3rd Saturday was attended by 883 patients.

Screening services	
Services	No.
Awareness classes	60
Cancer detection camps	97
Persons screened	30173
Cancers detected	431
Pre-cancers detected	422

Clinical activities			
Tasks	ECDC	Camp	Total
Cervical smear	2662	4139	6801
Oral smear	87	68	155
Fine Needle Aspiration Cytology	3089	1796	4885
Sputum cytology	13	.....	13
Fluid cytology	4	.....	4

Palakkad

Rekha SR

Resident Medical Officer

Creating cancer awareness among the public and cancer screening were the main functions of this ECDC. The Centre has 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 organizations. Programmes for the early detection of cervical cancer and breast cancers were conducted among 2900 women. Follow up clinics were conducted every three months and 229 patients attended. The centre also joined hands with the district medical administration, Palakkad and conducted 'Cancer Care' to propagate cancer screening and awareness among school/college students. Awareness programmes for the control of tobacco induced cancers were done with the help of NGO's.

Screening services	
Services	No.
Awareness classes	84
Cancer detection camps	70
Persons screened	14550
Cancers detected	40
Pre-cancers detected	255

Clinical activities			
Tasks	ECDC	Camp	Total
Cervical smear	422	3083	3505
Oral smear	20	18	38
Fine Needle Aspiration Cytology	41	101	142
Sputum cytology	6	--	6
Nipple discharge	14	26	40
Fluid cytology	2	--	2

NATURAL BACKGROUND RADIATION CANCER REGISTRY (NBRR), KARUNAGAPPALLY

Jayalekshmi P

Associate Professor & Officer-in-charge

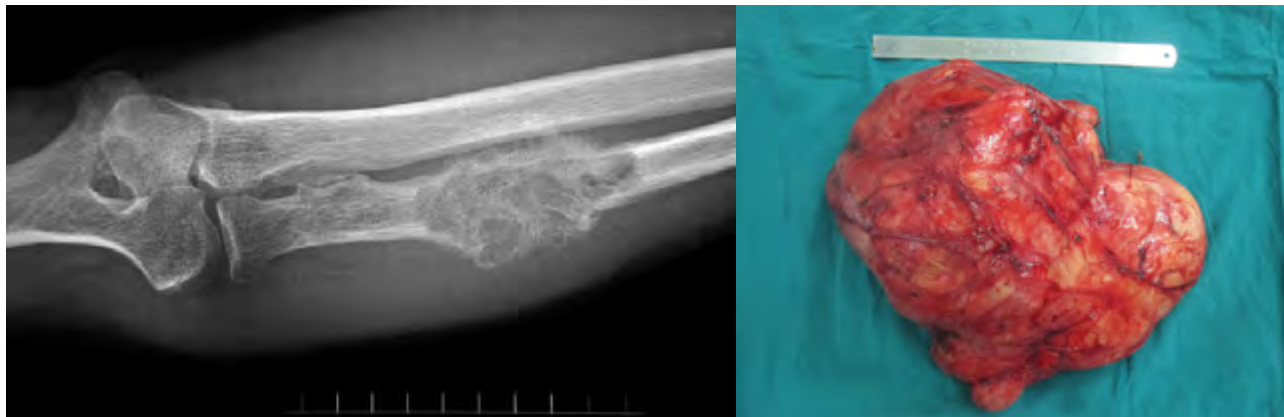
The Natural Background Radiation Cancer Registry (NBRR), an outreach centre of RCC, was started to evaluate the health effects of natural radiation present in the sea coast of Karunagappally Taluk, Kollam district of Kerala. NBRR carries out radiation epidemiologic studies on cancer and non-cancerous diseases, dosimetric studies and cytogenetic studies. Kollam District Cancer Registry supported by ICMR, Govt. of India and Cancer Care Centre supported by Govt. of Kerala are attached with this registry.

Patient services		
Services	No.	Persons attended
Cancer awareness classes & palliative care training programmes	6	950
Review clinics	6	499
Pain and palliative care clinic	Daily	8385
Cancer detection camps	84	7944
Cervical cancer screening	3170	---
Other cytology investigations	250	---
Cancer cases detected	40	---

MULTIDISCIPLINARY CLINICS

'A' CLINIC

(HAEMATOLOGICAL, LYMPHORETICULAR, BONE & SOFT TISSUE SARCOMA)



'A' clinic is responsible for the diagnosis and management of haematological and lymphoreticular malignancies, sarcomas and other solid tumors where intensive chemotherapy is indicated. Majority of the patients attending OPD were for chemotherapy. 2946 patients were admitted for the administration of high profile chemotherapy and management of emergencies and complications. In the BMT unit, autologous bone marrow transplantation following high dose chemotherapy was performed in 37 patients. Allogenic bone marrow transplantation for leukaemias was performed in 4 patients. Clinical training was given to postgraduate students of Radiation Oncology, Surgical Oncology and Medical Oncology of RCC and other Medical Colleges.

Clinical Services/Procedures Offered

Patients consulted	
Patients	No.
New cases	2378
Review cases	45,996
Total patient visits	48,374

Specialised services			
High Dose chemotherapy	Autologous BMT	Allogenic BMT	Chemotherapy
2000	37	4	20000

Major surgical procedures : 325

Radiation treatments : 669

Observers/Visitors : 43

'B' CLINIC

(HEAD & NECK)



'B' clinic is a multidisciplinary clinic comprising of Radiation Oncologists and Surgical Oncologists providing comprehensive evaluation, treatment and post treatment care for patients with head and neck malignancies. The team also comprises of trained nurses who provide advice and rehabilitation services for patients undergoing complex surgeries, reconstruction and radiotherapy. The services included state-of-the-art radiotherapy including 3DCRT, IMRT, and remote after loading HDR brachytherapy, cranio-facial resections, microvascular reconstructions and endoscopic skull base surgeries. Brachytherapy services provided include interstitial implantation, surface mould etc. There is also a closely associated dental division which provides pre and post radiotherapy dental care for patients. Clinical training was given to postgraduate students of Radiation Oncology, Surgical Oncology, ENT, Oral and Maxillofacial Surgery, General Surgery and Oral Medicine from various institutions.

Clinical Services/Procedures Offered

Patients consulted	
Patients	No.
New cases	2668
Review cases	33,773
Total	36,441

Radiotherapy			
Radical			Palliative
3D CRT	IMRT	2D Planning	
1	125	1120	210

Surgical Procedures				
Oral cancers	Laryngo-pharyngeal	Salivary glands	Sino-nasal cancers	Others
745	99	46	71	642

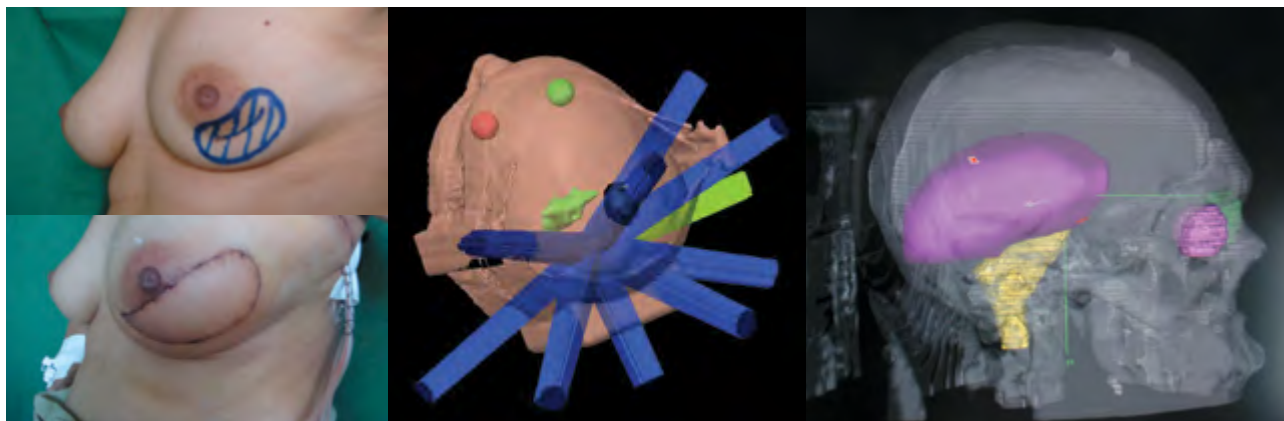
Chemotherapy

Concurrent Chemo-Radiotherapy	120
Neoadjuvant	237
Palliative	177

Observers/Trainees: 30 postgraduates in Oral Pathology & Oral Medicine, ENT and Radiotherapy and 74 postgraduate in ENT, Maxillofacial Surgery & General Surgery from various Medical Colleges were trained in Radiation Oncology and Surgical Oncology respectively.

'C' CLINIC

(BREAST & CENTRAL NERVOUS SYSTEM)



'C' clinic deals with the treatment of cancers arising in the breast and central nervous system by offering surgery, radiotherapy, chemotherapy, targeted therapy and endocrine therapy services. The clinic also caters to paediatric patients who need radiotherapy for central nervous system tumours. The services provided include conservative and reconstructive surgeries for breast cancer, sentinel lymph node biopsy procedures, modern radiotherapy treatments such as 3D conformal radiotherapy, IMRT/IGRT, SRS/SRT and all forms of systemic treatments such as chemotherapy, endocrine therapy and targeted therapy. Non-surgical treatments are provided for both benign and malignant brain tumors as well as arteriovenous malformations. Counseling regarding treatment side effects and sequelae are imparted by well-trained nurses. Services including post treatment physiotherapy, rehabilitation and management of lymphoedema is provided specialized lymphoedema clinic. The month of October was observed as breast cancer awareness month and 475 women underwent breast screening. Clinical training was given to postgraduate students of Radiation Oncology, Surgical Oncology and Medical Oncology from within RCC and other Medical Colleges.

Clinical Services/Procedures Offered

Patients consulted

Patients	No.
New cases	2621
Review cases	48,567
Total	51,188

Radiotherapy

Radical				Palliative
Conformal	Conventional	IMRT	Stereotactic Radiosurgery/ SRT	
1096	155	71	27	270

Surgical Procedures

Mastectomy	Breast Conservation & Oncoplastic	Others
894	331	156

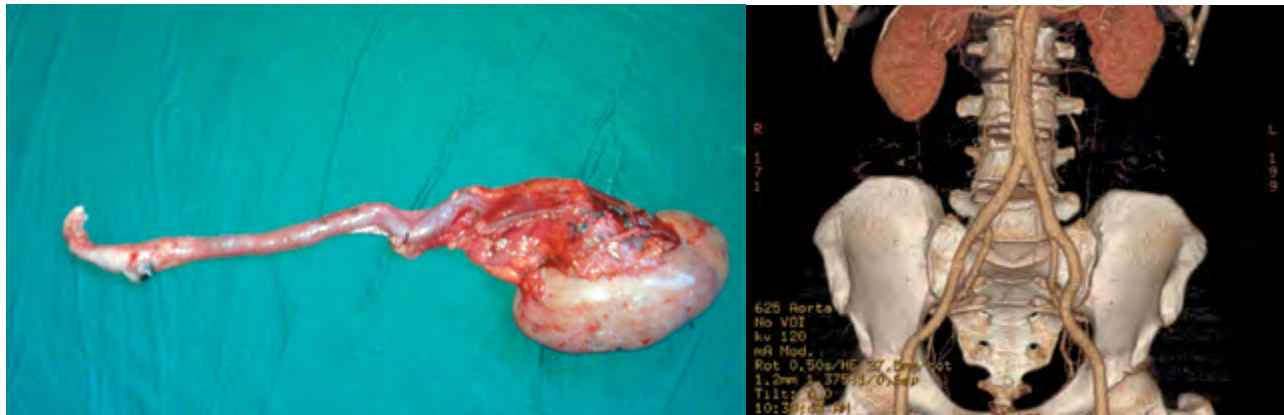
Chemotherapy: More than 80% of patients attending this clinic received chemotherapy. Most of the chemotherapy is delivered on an out-patient basis.

Visitors

- Dr. Christopher Booth MD, FRCPC, Associate Professor, Queens University, Ontario, Canada
- Dr. Joseph Del Paggio, Queens University, Ontario, Canada

'D' CLINIC

(GYNAEC, GENITOURINARY & OTHERS)



'D' clinic provides care for patients with gynaecologic, urologic, dermatologic cancer and cancers of unknown primary origin. Patients were treated with precision radiotherapy (IGRT, IMRT and 3D conformal RT), surgery, chemotherapy, targeted and hormonal therapies. Surgical oncology services range from extensive pelvic surgery to minimally invasive laparoscopic procedures. Clinical training was given to postgraduate students from Radiation Oncology, Surgical Oncology, Medical Oncology, Gynaecologic Oncology and Gynaecology. Students of Gynaecology, Urology and Radiotherapy from various medical colleges were posted in the unit. Gynaec tumour board and urology tumour boards were conducted regularly.

Clinical Services/Procedures Offered

Patients consulted	
Patients	No.
New cases	2764
Review cases	33,259
Total	36,023

Radiotherapy procedures

Radical			Brachytherapy	Palliative
3D CRT	IMRT	2D Planning		
121	116	472	1457	473

Surgical Procedures

Gynaecological cancers	Ovarian	216
	Endometrial	88
	Cervical	29
Urological cancers	Nephrectomy	21
	Penectomy	16
	Bladder	14
	Others	108

Chemotherapy

Concurrent chemo-radiotherapy	326
Neoadjuvant chemotherapy/Hormone therapy	237

'E' CLINIC

(CHEST & GASTROINTESTINAL)



'E' clinic caters to patients with thoracic and gastro-intestinal tumours. The clinic offers comprehensive multidisciplinary state-of-the-art radiotherapy, surgery and chemotherapy services. Image guided, gated radiotherapy, and stereotactic body radiotherapy (SBRT) were provided when clinically indicated. Clinical training was given to postgraduate students of Radiation Oncology, Surgical Oncology and Medical Oncology of RCC and other Medical Colleges.

Clinical Services/Procedures Offered

Patients consulted	
Patients	No.
New cases	3782
Review cases	35,009
Total	38,791

Radiotherapy				
Radical				Palliative
Conformal	IMRT	CT/2D Planning	Brachytherapy	
429	157	150	5	704

Surgical procedures					
Esophagus	Lung	Stomach	Hepatobiliary & Pancreas	Colorectal	Others
72	36	125	34	334	181

Chemotherapy

The clinic provided both day care as well as inpatient chemotherapy services. Chemotherapy infusion regimens were given through infusion pumps using PICC line as part of daycare chemotherapy, thereby avoiding inpatient admissions.

Academic activities

Organized an International Conference on Upper Gastrointestinal Cancers in association with KASO (Kerala Association of Surgical Oncologists), from 16-17 July 2016, which included a one day live surgical workshop on upper gastrointestinal cancers.

'F' CLINIC

(PAEDIATRIC ONCOLOGY)



'F' clinic managed childhood malignancies up to the age of 14 years. Children from the state of Kerala, southern Tamil Nadu, southern Karnataka, Andamans, Lakshadweep and Maldives attended the clinic for medical care. The clinic provided outpatient and inpatient services including ICU care with ventilatory support. Supportive care, psychosocial counseling, nutritional support, informal education and cultural programs for patients and parents were also provided. Among the new cases reported, acute lymphoblastic leukaemia and brain tumour were the most common malignancies.

A new Paediatric OPD consisting of four consultant rooms, one counselling room and one patient support group room was inaugurated by Smt. K.K. Shailaja Teacher, Hon'ble Minister for Health & Social Justice, Govt. of Kerala on 29 August 2016.

Clinical Services/Procedures Offered

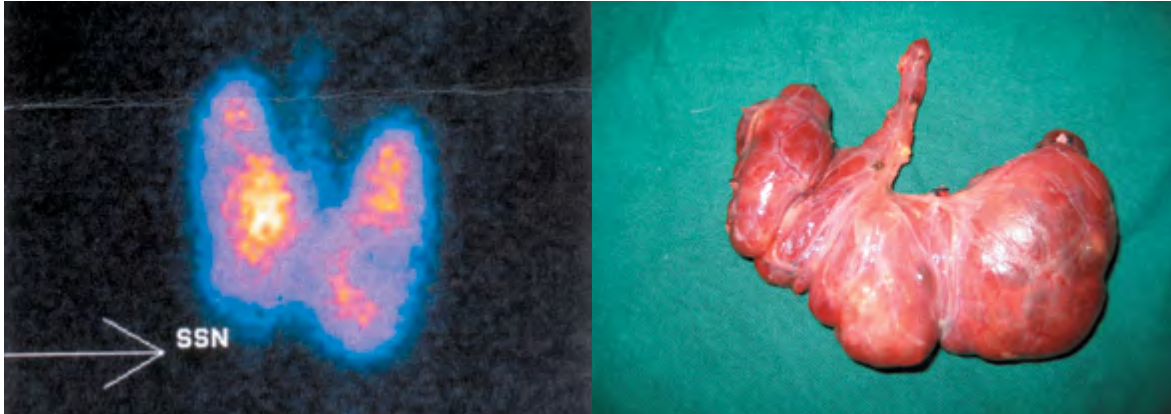
Patients consulted	
Patients	No.
New cases	620
Review cases	21924
Total	22544

Procedures	
Ventilator Support	31
PICC line insertions	62
Bone marrow	845
Lumbar puncture (diagnostic and therapeutic)	3079
FNAC	72

Academic activities

The Clinic has an ongoing DM programme in Paediatric Oncology with an annual intake of two students. The clinic provided regular training to postgraduate students in Paediatric Oncology, Radiotherapy and Medical Oncology from within RCC and also from various Medical Colleges. Observers from foreign academic institutions also attended the clinic.

'G' CLINIC (THYROID)



'G' clinic is a multidisciplinary clinic comprising experts from Nuclear Medicine, Surgical Oncology and Radiation Oncology divisions. The clinic managed both thyroid cancer as well as non-malignant cases.

Clinical Services/Procedures Offered

Patients consulted	
Patients	No.
New cases	1422
Review cases	15843
Total	17265

Nuclear Medicine services

Immunoassays	PET-CT Scan	SPECT Gamma camera
60349	1090	2744

Radio-iodine therapy

Thyroid Cancer	Thyrotoxicosis
591	218

Surgical Procedures

Total Thyroidectomy	Hemi Thyroidectomy	Revision/ Completion Thyroidectomy
198	4	53

Patient Welfare Services & Public Relations Activities

Officers-in-charge

Patient Welfare Officer:	Latha PT
Public Relations Officer Sr. Gr.:	Surendran Nair V
Assistant Administrative Officer (Clinical Services):	Sreekumar B

RCC has implemented several schemes for providing economic assistance, free food, free drugs and various rehabilitation facilities for patients and their families through programmes supported by government and non-governmental agencies. Patients received assistance from various central and state government schemes such as Prime Minister's Relief Fund, RAN, Health Minister's Discretionary Fund, Cancer Suraksha Scheme, CHIS Plus, Karunya Benevolent Fund, Sukrutham, Thalolam, Scheduled Tribe Patient Fund and Snehasanthwanam for Endosulfan Victims. These schemes provided benefit to 13286 new patients to avail treatment worth of Rs. 70.80 crores during the period under report. In addition, patients got benefitted from schemes initiated by RCC such as CCL scheme, Free Drug Bank, Free Food, Pratyasa for paediatric patients and by Indian Cancer Society.

The Public Relations wing deals with media relations, Cancer Care for Life scheme, complaint redressal, information counter, public functions, advertisements, coordination of volunteers, receptionist training programme, poor patients welfare fund campaign, and preparation of brochures, articles, documentaries and other media publicity materials. Fund raising campaign to promote contribution to the poor patients welfare fund (Akshayapatram) has been organized with the help of several individuals and philanthropic organizations. Contribution received from 1862 donors during this period, has been utilized for food, medicine, and rehabilitation of patients who were not covered under any patient welfare schemes. Public Relations office was involved in breast cancer awareness campaign organized in October 2016. Classes for awareness about various welfare schemes were conducted in different parts of the State. Cancer awareness programmes were also conducted through various audio-visual media.

Fourth batch of Receptionist Trainees successfully completed one year of their training and the 5th batch was joined in July 2016. Public relations and communication orientation classes were conducted for students of MSW, MHA, MCJ, MBA, and Medical Documentation.

Honours, Awards and Recognitions Received

Patent obtained

Title: Biomarkers useful for detection of types, grades and stages of human breast cancer /Lekha Dineshkumar, Vinod K Verma, **Rekha A Nair**, **Jem Prabhakar**, **Jayasree Kattoor** (RCC)

Patent No: GB2509682

Proprietor: Council of Scientific and Industrial Research
CSIR Ref : 0037NF2011 on 31.08.2016 granted at UKIPO, London

Award for Technology Innovation

Regional Cancer Centre and HLL Life Care Ltd. jointly received 7th National Award for Technology innovation in Petrochemicals and Downstream Plastics Processing Industry, 2016-17 (under Polymers in Public Health Care), instituted by Ministry of Chemicals and Fertilisers, Govt. of India. The award was presented to **Raghukumar P** (Additional Professor, RCC) and **Abi S. Aprem** (HLL Life Care Ltd) by **Sri. Ananthkumar**, Hon'ble Union Minister for Chemicals & Fertilisers and Parliamentary Affairs at Vigyan Bhavan, New Delhi, for their work 'Cervical Spacer for Reducing Radiation Dosage on Critical Organs during the Brachytherapy Treatment'. (1 March 2017)

Faculty and other Staff

Aleyamma Mathew (Professor), received Achanta Lakshmi pathi Oration award in the 56th Annual Conference of National Academy of Medical Sciences held in Raipur. (October 2016)

Bipin T. Varghese (Additional Professor), awarded research grant by KSCSTE for 'Development of Indigenous Voice prosthesis for Laryngectomies' in collaboration with SCTIMST. (January 2017)

Chandramohan K (Additional Professor)

- Received Hari Om Ashram Prerit Dr.S Rangachari Research Endowment award instituted by Association of Surgeons of India, Mysuru. (17 December 2016)
- Awarded Association of Surgeons of India Kerala Chapter Research Grant 2015-2017.

Elizabeth Mathew Iype (Additional Professor), awarded gold medal for the best research paper at the 16th FHNO-IFHNOS: International Federation of Head and Neck Oncologic Societies Conference, Delhi, 12-15 October 2016.

Guruvayoorappan C (Assistant Professor), elected for the Fellow Award, National Society of Ethnopharmacology (27 February 2017)

Jagathnath Krishna KM (Assistant Professor), received Best Poster Award in Mathematical & Statistical Sciences at the 29th Kerala Science Congress, Mar Thoma College, Thiruvalla, 28-30 January 2017.

Jayapriya G (Senior Resident), received 2nd best paper award for the paper, 'Cytology of paediatric mass lesions: a tertiary care centre experience' at the 46th Annual conference of Indian Academy of Cytologists, Nagpur, 19-21 November 2016.

Madhu Muralee (Additional Professor), awarded Association of Surgeons of India Travelling Fellowship, 2017.

Preethi Sara George (Associate Professor), received Membership award of National Academy of Medical Sciences (MNAMS). (October 2016)

Preethi TR (Additional Professor), received best poster award for 'Adult granulosa cell tumour in an infantile testis: a rarity' at the International CME on Update in Diagnostic Pathology, Morphology, Immunohistochemistry and Ancillary Techniques, Sri Ramachandra Medical College and RI, Chennai. (January 2017)

Ramadas K (Medical Superintendent), received DNA Life award instituted by Cancer Patients Aid Association of India. (22 February 2017)

Shijikumary NG (Staff Nurse), received DNA Life award instituted by Cancer Patients Aid Association of India. (22 February 2017)

Sreelekha R (Chief Nursing Officer)

- Received National Florence Nightingale Award 2016 from the Hon'ble President of India. (12 May 2016)

- Received DNA Life award instituted by Cancer Patients Aid Association of India. (22 February 2017)

Sreelekha TT (Assistant Professor), received Dr. Divya Ravindran Memorial Award 2016 for best research paper for the period 2015-2016. (17 October 2016)

Veena VS (Cytotechnologist Sel. Gr.), was awarded PhD by Bharathiar University for the thesis, 'Identification of biomarkers for the detection of lung cancer'. (March 2017)

Vijayalakshmi K (Additional Professor), received Kerala State Blood Transfusion Council award on National Blood Donor Day for the contributions to the field of Transfusion Medicine. (October 2016)

Trainees

Gopakumar KG (DM, Paediatric Oncology Student), secured 2nd Prize in National Paediatric Haemato-Oncology quiz, held in connection with PHOCON 2016: Paediatric Haematology Oncology Conference, Tata Memorial Hospital, Mumbai, 4-6 November 2016.

Lawrence Aloysius and Sibi Ismail (MD Anaesthesia students), secured state level 2nd prize in the Paediatric Anaesthesia Continuing Education PG Quiz. (March 2017)

Prasanth PR (DM, Paediatric Oncology Student), secured 1st Prize in National Paediatric Haemato-Oncology quiz, held in connection with PHOCON 2016: Paediatric Haematology Oncology Conference, Tata Memorial Hospital, Mumbai, 4-6 November 2016.

Preethi GU (Research Scholar), selected for the "Newton Bhabha PhD placement program" jointly funded by DBT, Govt. of India and British Council, UK for a period of 4 months from 1st June 2016 to 10th October 2016.

Rakul Nambiar (DM, Medical Oncology Student), received Young Researcher Award at Systems Oncology Conference 2017, Kochi.

Sheetal K and Shwetha Seetharam (DM, Paediatric Oncology Students), secured 1st Prize in Paediatric Solid tumour Quiz in the National Paediatric Solid Tumour Workshop, Tata Memorial Hospital, Mumbai, 22-24 April 2016.

Sheetal K (DM, Paediatric Oncology Student), secured 1st Prize in the Quiz held in connection with CHIP 2016: Conference on Healthcare Associated Infections and Prevention, RCC, Thiruvananthapuram, 21-22 October 2016.

Suresh Kumar R (Research Scholar), was awarded PhD by University of Kerala for the thesis, 'Prognostic relevance of nucleophosmin 1 and methylation associated gene mutations in AML patients'. (October 2016)

Unnikrishnan BS (Research Scholar), selected for the "Newton Bhabha PhD placement program" jointly funded by DBT, Govt. of India and British Council, UK for a period 6 months from 1st July 2016 to 23rd December 2016.

Functions, Workshops & Conferences organized

Sl. No.	Name of Programme	Date
1	World No Tobacco Day	31 May 2016
2	2nd Annual Meeting of Kerala Association of Surgical Oncologists: Update on Upper Gastrointestinal Cancers	16-17 July 2016
3	International Conference on Precision Radiotherapy	15-16 October 2016
4	Conference on Healthcare Associated Infections and Prevention	21-22 October 2016
5	National Cancer Awareness Day: Updates on Prevention and Control of Oral Cancer	7 November 2016
6	CME on Oncopathology	14 January 2017
7	Impact 2017: Workshop on Ultrasound Guided Regional Anaesthesia	28 January 2017
8	Certified Training Programme on Acute Pain Management	30 January 2017
9	World Cancer Day	4 February 2017
10	International Childhood Cancer Day	15 February 2017
11	Inauguration of ECDC Palakkad by Sri.V.S.Achuthanandan	17 February 2017
12	Inauguration of the Infosys Chair instituted by Infosys Foundation at RCC, by Hon'ble Chief Minister of Kerala	22 February 2017

GALLERY



Inauguration of Conference on Healthcare Associated Infections and Prevention by Dr.Thomas Mathew, Principal, Govt. Medical College, Thiruvananthapuram (21 Oct 2016)



Inauguration of CME on Oncopathology by Dr.Mariamamma Joseph, Professor of Pathology, Canada. (14 Jan 2017)



Inauguration of Impact 2017:Workshop on Ultrasound Guided Regional Anaesthesia by Dr. K. Ramadas, Medical Superintendent (28 Jan 2017)



Inauguration of newly constructed building for ECDC Palakkad, by Sri.V.S.Achuthanandan, Chairman, Kerala Administrative Reforms Commission (17 Feb 2017)



Inauguration of the Infosys Chair instituted by Infosys Foundation at RCC, by Shri. Pinarayi Vijayan, Hon'ble Chief Minister of Kerala (22 Feb 2017)

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

INTERNATIONAL

Sl. No.	Delegate	Conference/Meeting	Date & Venue	Paper/Talk/Poster presented/Delegate's status
1	Chandramohan K	1st International Colorectal Cancer Meeting	19 Aug 2016, Beijing, China	Talk: 'Laparoscopic colorectal cancer surgery: Global variations in precision practice and Indian experiences'
2	Elizabeth Mathew lype	EASHNO 2017: Eurasian Head and Neck Forum	10-12 Feb 2017, Sochi, Russia	Talk: 'Achieving excellence in head and neck surgery'.
3	Kainickal CT	AHNS 2016: American Head and Neck Society Annual Meeting	16-20 Jul 2016, Seattle, USA	Paper: 'Phase IIb trial comparing two concurrent cisplatin schedules in locally advanced head and neck cancer'.
4	Mary Thomas	16th World Congress of Anaesthesiologists	28 Aug - 2 Sep 2016, Hong Kong	E-Poster (PR628): 'A double blind randomized control trial to study the efficacy of a single dose intravenous magnesium sulphate in preventing postoperative pain in patients undergoing mastectomy'
5	Priya Mary Jacob	18th Meeting of European Association for Haematopathology	3-8 Sep 2016, Basel, Switzerland	Paper: 'Body cavity fluid flow cytometry in the diagnosis of haematolymphoid neoplasms'.
6	Rekha A. Nair	18th Meeting of European Association for Haematopathology	3-8 Sep 2016, Basel, Switzerland	Paper: 'Aggressive B cell lymphomas: a three year study from a tertiary cancer centre in South India'.
7	Saju B	8th International Oncology Conference	2-4 Nov 2016, Oman	Paper: 'Volumetric Modulated Arc Therapy in clinical practice'.
8	Sujathan K	International Conference on Cancer Care and Cure	1-2 Dec 2016, Dubai	Paper: 'Cervical cancer screening: new insights'.
9	Unnikrishnan BS	2nd Annual Nano Symposium, Keele Nanopharmaceutics	15 Jul 2016, Staffordshire, UK	Paper: 'Polysaccharide coated gold nanoflowers: potential imaging & photothermal agent'.
		6th Postgraduate Symposium on Nanoscience and Nanotechnology	13 Dec 2016, Birmingham, UK	Paper: 'Drug loaded galactoxyloglucan coated gold nanoflowers for theranostic management of cancer'.

NATIONAL

Sl. No.	Delegate/s	Conference/Meeting	Date & Venue	Paper/Talk/Poster presented/ Delegate's status
1	Akhila Raj TV	National Conference on Frontiers in Genetics and Genomics	7-8 Apr 2016, Central University of Kerala, Kasaragod	Talk: 'Clinical significance of cytogenetics and class I gene mutations in adult AML patients'.
		International Seminar on New Frontiers in Cytogenetics	15-17 Dec 2016, University of Kerala	Talk: 'Prognostic significance of cytogenetics in AML patients: A comparative study between AML M2 t(8;21) and NK AML patients'.
		Indian Society of Human Genetics 2017	2-4 Mar 2017, IISC, Bangalore,	Poster: 'Identification of different cytogenetic groups in acute myeloid leukaemia-M2 patients from south India'.
2	Aleyamma Mathew	Annual Conference of National Academy of Medical Sciences	21-22 Oct 2016, All India Institute of Medical Sciences, Raipur.	Received Achanta Lakshmi pathi Oration award
		32 nd Annual Review Meeting of National Cancer Registry Program, Gov of India	11-12 Nov 2016, Nagaland	Presented reports of Population and Hospital Based Cancer Registries & pattern of care and survival study
3	Anila KR, Jayapriya G	Annual CME of IAC: Role and Scope of Cytopathology in Soft Tissue Tumours	18 Nov 2016, Nagpur	Delegates
4	Anila KR	46 th Annual Conference of Indian Association of Cytologists	19-21 Nov 2016, Nagpur	Paper: 'Role of rapid onsite evaluation in CT guided FNA Cytology'.
5	Anitha Mathews, Thara Somanathan, Sindhu Nair P, Rari P. Mony	CAPPCON 2016: International CME on Soft Tissue Tumours	23- 24 Apr 2016, Kolkata	Delegates
6	Anitha Mathews, Sindhu Nair P, Rari P. Mony	Update in Uro pathology	3-4 Feb 2017, CMC, Vellore	Delegates
7	Ariya Sreedharan	International Conference on Hospital Waste Management and Infection Control	2-3 Dec 2016, Kasturba Medical College, Manipal	Delegate
8	Aswathy CG	National Conference on Frontiers in Genetics and Genomics	7-8 Apr 2016, Central University of Kerala, Kasaragod	Talk: 'Association of P53 codon 72 polymorphism with cytogenetic abnormalities in individuals with high background radiation exposure in Karunagappally'
9	Binitha R	N-RICH 2016: National- Round table meet for Infection Control in Haemato-oncology	30 Apr-01 May 2016, JIPMER, Pondy cherry	Delegate
		PHOCON 16: Pediatric Hematology Oncology Conference	4- 6 Nov 2016, Tata Memorial Hospital, Mumbai	Poster: 'Profile of infections during induction chemotherapy in children with acute lymphoblastic leukaemia'.
10	Bipin T.Varghese	FHNO-IFHNOS: Joint Meeting	12-15 Oct 2016, Delhi	International panelist on laryngeal cancers Posters: 1. 'Endoscopic endonasal approach to malignant sinonasal and allied skull base tumours'. 2. Submental flap reconstructions: Review of 65 cases done by a single surgeon in an institutional setting and eleven years of personal experience with use of linear staplers in laryngectomy'.

11	Chandramohan K	NATCON IASO	23 Sep 2016, Lucknow	Debate: Against resection of primary colorectal with unresectable metastatic disease
		ASICON	16-17 Dec 2016, Mysuru	Talk: 1. 'Molecular diagnosis of cancers'. 2. 'Tumour primordial cells in colorectal cancer: Implications for surgical margins and minimal residual disease'. 3. Debate: 'Chemoradiation Vs chemotherapy for esophageal cancers'.
12	Deepthi J. Prabhu	ISACON SOUTH 2016: South zone ISA Conference	19-21 Aug 2016, Belagavi, Karnataka	Faculty Talk: 'Chemotherapeutics and anaesthesia'.
13	Divya Raj	Dental and Prosthetic Oncology training	2-15 May 2016, Tata Memorial Hospital, Mumbai	Delegate
14	Elizabeth Mathew Iype	FHNO-IFHNOS: Joint Meeting	12-15 Oct 2016, Delhi	Talk: 'Selected molecular markers as indicators of clinical profile, tumour characteristics and treatment outcome in squamous cell carcinoma of the larynx'.
15	Geetha Kumari BS	Coloplast Ostomy Forum meeting	2-3 Apr 2016, Lonavala, Maharashtra	Delegate
		Breaking bad news to rehabilitation –Oncology Nursing exploring new horizons	12 Oct 2016, Kasturba Gandhi Nursing College, Chennai	Faculty
		Hollister Education: Maintaining and managing healthy peristomal skin	27 Nov 2016, Hyderabad	Delegates
16	Geethi MH	AROICON 2016: Annual Conference of Association of Radiation Oncologists of India	24-27 Nov 2016, Bhubaneswar	Panelist
17	Gopakumar KG	PHOCON 16: Pediatric Hematology Oncology Conference	4-6 Nov 2016, Tata Memorial Hospital, Mumbai	Posters: 1. 'Infectious complications during induction chemotherapy in children with acute myeloid leukaemia'. 2. 'Infant with pallor and hepatosplenomegaly; not always a leukaemia'.
18	Guruprasad CS, Sheethal K, Jithin TK.	Workshop on Paediatric Solid Tumours	29-30 Apr 2016, TMH, Mumbai	Delegates
19	Guruprasad CS	PHOCON 16: Pediatric Hematology Oncology Conference	4-6 Nov 2016, Tata Memorial Hospital, Mumbai	Poster: 'Etiological profile of seizures in children undergoing chemotherapy for acute lymphoblastic leukaemia'
20	Guruvayoorappan C	International Conference on Environmental Conservation and Human Health	21-23 Dec 2016, Sri Venkateswara University, Tirupati	Talk: 'Targeting the cascade of events leading to tumour cell invasion and metastasis using natural products from marine mangroves'
		International Conference on Herbal and Natural Components as the Future of Pharmacology	21 Feb – 01 Mar 2017, Avinashilingam University, Coimbatore	Talk: 'Targeting the metastatic cascade using Solanum muricatum and its regulatory effect on transcription factors'.
21	Harish S	Apollo Cancer Conclave	3-6 Feb 2017, Hyderabad	Delegate
22	Harish S, Jaisankar P, Sugeeth MT	SPEAK CME on Management of Prostate Cancer	18 Dec 2016, Mumbai	Delegates

23	Jaisankar P, Varun Rajan	2nd Year in Review: Conference on Breast Cancer	21-22 Jan 2017, TMH, Mumbai	Delegates
24	Jaisankar P	Apollo Cancer Conclave	2-5 Feb 2017, Hyderabad	Poster: 'Extremity osteosarcoma: clinical characteristics and treatment outcome'.
25	Jayapriya G	46 th Annual Conference of Indian Association of Cytologists	19-21 Nov 2016, Nagpur	Paper: 'Cytology of paediatric mass lesions: a tertiary care center experience'.
26	Jayasree K, Anila KR, Sindhu Nair P, Renu S, Priya Mary Jacob, Jayasudha, Neelima Radhakrishnan	POMP 2017: 9 th National CME in Pathology	11-13 Feb 2017, Medical College, Calicut	Delegates
27	Jayasudha AV	Lymphoma Meet 2016	17-18 Sep 2016, Tata Medical Center, Kolkata	Faculty
28	Jyothilekshmi D, Joby Paul	National Training Programme for BMT Nurses	9-10 Dec 2016, ACTREC, Tata Memorial Hospital, Mumbai	Delegates
29	Kalavathy MC	32 nd Annual Review Meeting of National Cancer Registry Program, Govt. of India	11-12 Nov 2016, Nagaland	Presented PBCR reports of Kollam district cancer registry
		Scientific Symposium Frontiers in Epidemiology	6-7 Mar 2017, Tata Memorial Centre, Mumbai	Paper: 1. 'Prevalence of atypical squamous cells of undetermined significance (ASCUS) in Pap smear and high risk HPV positivity in ASCUS' 2. 'Prevalence and risk factors of high-grade squamous intraepithelial lesions and on 10,979 Pap smears in a tertiary care hospital in Trivandrum, South India'.
30	Khushnuma Mullanfiroze	3rd Global Sickle cell Congress	21-24 Feb 2017, Bhubaneswar	Paper: 'Reduced toxicity with treosulphan based conditioning for patients with sickle cell anaemia'.
		4 th International Conference on Primary Immunodeficiency	11-13 Mar 2017, Bengaluru	Paper: 'Haploidentical stem cell transplant for primary immunodeficiency disorders in children: challenges and outcome from a tertiary care centre in India'.
31	Krishnachandran R	35 th Annual convention of Indian Association for Cancer Research	8-10 Apr 2016, New Delhi	Poster: 'Role of c-Myc expression in disease progression of CML patients'
		Indian Society of Human Genetics 2017	2-4 Mar 2017, IISC, Bengaluru	Poster: 'Isoderivative Philadelphia chromosome: a rare chromosomal aberration in Im resistant CML patients'
32	Kusumakumary P	PHOCON 16: Paediatric Hematology Oncology Conference	4-6 Nov 2016, Tata Memorial Hospital, Mumbai	Faculty
33	Lakshmi S	35 th Annual Convention of Indian Association of Cancer Research: Cancer in Asia : Bridging Gaps	8-10 Apr 2016, New Delhi	Delegate
34	Latha A	9 th National CME in Pathology: Predictive Oncology and Molecular Pathology	11-13 Feb 2017, Kozhikode	Delegate

35	Madhu Muralee	ASICON	16-17 Dec 2016, Mysuru	Faculty: Debate on neoadjuvant treatment in esophageal cancers. Faculty: PG teaching programme
36	Mallika Balakrishnan, Viji S.Pillai, Bhagyalakshmi R, Subha R	AORA 2016: Annual Conference and Workshop conducted by Association of Regional Anaesthesia	23-25 Sep 2016, Hyderabad	Delegates
37	Manjusha Nair	24 th International Conference of Indian Association of Palliative Care	10-12 Feb 2017, Coimbatore	Poster: 'Effectiveness of initial counseling regarding disease and treatment to parents of children with cancer and assessment of their psychosocial response'.
38	Mira Wagh	12 th Annual Conference of the Association of Oncologists of North East India	28-29 Jan 2017, Silchar	Panel discussion: 'Management of cervical cancer'.
		2 nd Hands –on Workshop of Association of Breast Surgeons of India on Breast Imaging and Oncoplasty	18-19 Feb 2017, Vapi, Gujarat	Delegate
39	Nileena Nayak	2 nd National Congress of the Academy of Pathology	11-12 Nov 2016, MJV Medical College and Research Hospital, Bengaluru	Faculty: Lecture and slide seminar on fine needle aspiration cytology: current concerns.
40	Paul Augustine	Robotic Surgeons Council of India Meeting	8- 9 Apr 2016, New Delhi	Delegate
41	Paul Augustine, Madhu Muralee	15 th Annual Meeting on Evidence Based Management of Cancers in India: From Controversy to Consensus: Shaping Indian National Cancer Policy	24-26 Feb 2017, TMH, Mumbai	Delegates
42	Paul Augustine, Rexeena Bhargavan	Oncosurg 2016	24-27 Nov 2016, Mumbai	Delegates
43	Prasanth VR	PHOCON 16: Paediatric Hematology Oncology Conference	4-6 Nov 2016, Tata Memorial Hospital, Mumbai	Posters: 1. 'Investigating hepatitis B immunity in children with acute lymphoblastic leukaemia presenting at a tertiary cancer centre'. 2. 'Clear cell sarcoma of soft parts: a rare paediatric entity'. 3. 'Efficacy of immunization against hepatitis B virus infection in acute lymphoblastic leukaemia'.
44	Preethi G. Nath	National conference on Frontiers in Genetics and Genomics	7-8 Apr 2016, Central University of Kerala, Kasaragod	Oral: 'Exploring the prognostic significance of hyperdiploid karyotypes in pediatric B-lymphoblastic leukemia'
		International seminar on New Frontiers in Cytogenetics	15-17 Dec 2016, University of Kerala	Oral: 'Clinical utility of spectral karyotyping in chromosome analysis of pediatric leukemia patients'
45	Preethi Sara George	Annual Conference of National Academy of Medical Sciences	21-22 Oct 2016, All India Institute of Medical Sciences, Raipur.	Recipient of Member of National Academy of Medical Science of India Degree (MNAMS)
		International Conference on Statistics for 21 st Century	21-23 Dec 2016, Thiruvananthapuram	Invited Talk: 'Determination of optimum cut point to separate high and low risk patients in cancer survival'.

46	Preethi TR	2 nd National Congress of the Academy of Pathology	11-12 Nov 2016, MJV Medical College and Research Hospital, Bengaluru	Delegate
		Pre Conference CME of APCON 2016: Update on Neuropathology	31 Nov 2016, SMS Medical College, Jaipur	Delegate
		APCON 2016: Annual Conference of IAPM	2- 4 Dec 2016, SMS Medical College, Jaipur	Poster: 'Leydig cell tumour of ovary with retiform pattern and heterologous elements: a report of two cases'
47	Preethi TR, Renu S	IAP – ID Annual Conference	01 Dec 2016, SMS Medical College, Jaipur	Delegates
48	Priya A	AIIMS Interventional Radiology course	8-9 Apr 2017, New Delhi	Delegate
49	Priyakumari T	ACOS 2016: 12 th International Conference of The Asian Clinical Oncology Society	8-10 Apr 2016, New Delhi	Faculty Panel Discussion: 'Controversies in the management of osteosarcoma'.
		InPOG Late Effects Meeting – Round Table Meet	9 Apr 2016, New Delhi	Faculty
50	Priya Mary Jacob	FABACTCS 2016: 9 th TCS Annual Event and Flow Cytometry Workshop on "Flow Applications in Basic, Applied and Clinical Biology"	3-5 Nov 2016, IIT, Guwahati	Invited faculty Paper: 'T-Chronic lymphoproliferative disorders: experience from a South Indian cancer institute.'
51	Rachel Cherian Koshy	Conclave on Optimising Regional Anaesthesia to Impact Post Operative Patient Outcomes	3 Apr 2016, KEM Hospital, Mumbai	Delegate
		All India Association of Practising Anaesthesiologists Summit on Recent advances in Inhalational Anaesthesia	5 Mar 2017, Chennai	Moderator for 'Low flow anaesthesia with newer inhalational agents'
52	Raghukumar P	AMPICON 2016: 37 th Annual Conference of Association of Medical Physicists of India	18-20 Nov 2016, Hyderabad	Poster: 'Beam data acquisition for MC based algorithm of iPLAN TPS for SRS/SRT treatment planning'.
53	Raghu Ram K.Nair, Saju B, Raghukumar P, Zhenia Gopalakrishnan, Sharika V.Menon	International Workshop on Precision Radiotherapy	15-16 Oct 2016, RCC	Delegates
54	Rajani RV	National Conference on Nursing excellence in Healthcare	17 Dec 2016, Annammal College of Nursing, Tamil Nadu	Talk: Medication Error'.
55	Rajesh R.Chandran	TRANSMEDCON 2016: 5 th National Conference of Indian Society of Transfusion Medicine	18-20 Nov 2016, Bhopal	Delegate
		ISHICON 2016: 4 th National Conference of Indian Society for Histocompatibility and Immunogenetics	2-3 Dec 2016, PGI, Chandigarh	Delegate
		Workshop on Apheresis Medicine and Transplantation	9 Dec 2016, Bengaluru	Delegate
		Joint Congress of AABB and AATM	10-11 Dec 2016, Bengaluru	Delegate
		International Conference on Revolution in Transfusion Medicine in Modern Biology	15-17 Feb 2017, NIIH, Mumbai	Delegate

56	Rakul Nambiar	HAEMATOCON 2016	10-13 Nov 2016, Jaipur	Talk: 'Acute lymphoblastic leukemia presenting as pancytopenia: clinical characteristics and treatment outcome.'
57	Rekha A. Nair	CME on Immunohistochemical Diagnosis of Tumours	17 Aug 2016, PSG Institute, Coimbatore	Invited faculty Talk: 'Lymphomas'
58	Renu S	APCON 2016: Annual Conference of IAPM	2-4 Dec 2016, SMS Medical College, Jaipur	Poster: 'Clinicopathological spectrum of anaplastic large cell lymphoma: retrospective study of 88 cases from a tertiary cancer centre.'
59	Riyad RA	Advanced Key Operator Training Program on Biochemistry Autoanalysers	3-7 Oct 2016, Mumbai	Delegate
60	Ridukumar	Paediatric Solid Tumours Workshop 2016	22-24 Apr 2016, Mumbai	Delegate
		METRONOMIC 2016	6-8 May 2016, Mumbai	Delegate
61	Ridukumar, Rona Joseph, Varun Rajan	COPE 2017	3-5 Feb 2017, Chennai	Delegates
62	Saji S. Nair	National Workshop on Content Management System using JOOMLA	5-6 Aug 2016, Kochi	Delegate
63	Saju B	AMPICON 2016: 37 th Annual Conference of Association of Medical Physicists of India	18-20 Nov 2016, Hyderabad	Delegate
64	Sharika V. Menon	AMPICON 2016: 37 th Annual Conference of Association of Medical Physicists of India	18-20 Nov 2016, Hyderabad	Poster: 'Dosimetric comparison of CT optimised and un-optimised plans for HDR brachytherapy for cancer of uterine cervix.'
		1st ESTRO-AROI GYN Teaching Course on "Transition from Conventional 2D to 3D RT with a special emphasis on Brachytherapy in Cervical Cancers"	8-11 Mar 2017, Bengaluru	Delegate
65	Sheeja K	7th International Conference on Stem Cells and Cancer : Proliferation, Differentiation and Apoptosis	21-23 Oct 2016, Raveendra Bhawan Margao, Goa	Oral: 'The natural xanthone alpha mangostin inhibits the metastasis of human oral cancer cells in vitro'
		World Congress on Drug Discovery and Development	23-25 Nov 2016, JN Tata Auditorium, IISc, Bangalore	Oral: 'Antimetastatic effect of Garcinia mangostana extract on human oral squamous carcinoma cell line'
66	Sheethal K, Jithin TK	Masterclass in Paediatric Surgical Oncology 2017	2-4 Feb 2017, JIPMER, Pondicherry	Delegates
67	Shiji R	ICNAN'16	19-21 Oct 2016, VIT, Vellore	Oral: 'Synthesis of highly fluorescent galactomannan-gold nanoclusters for cellular imaging.'
68	Shwetha Seetharam	PHOCON 16: Paediatric Hematology Oncology Conference	4- 6 Nov 2016, Tata Memorial Hospital, Mumbai	Poster: 'Hyperglycemia during induction chemotherapy of paediatric ALL.'
69	Sindhumol M G	Ultrasound Guided PICC Training Program	11 - 22 Apr 2016, Rajiv Gandhi Cancer Institute and Research Centre, Delhi	Delegate

70	Sreelekha R	National Conference on Recent Innovations in Nursing Care	12 Nov 2016, Malabar Cancer Centre, Thalassery	Talk: 'Quality ward management and role of nurse led team in oncology'.
		National Conference on Nursing Excellence in Healthcare	17 Dec 2016, Annammal College of Nursing, Tamil Nadu	Talk: 'Human resource planning and utilization'.
		National Conference on Modern Management and Techniques in Nursing	29 Jan 2017, Medical College Hospital, Thiruvananthapuram	Talk: 'Newer trends in oncology nursing'.
		Workshop on Prevention of Sexual Harassment of Women at Workplace	28 Feb – 01 Mar 2017, Institute of Good Governance, New Delhi.	Delegate
71	Sugeeth MT	HAEMATOCON 2016	10-13 Nov 2016, Jaipur	Talk: 'Burkitt's lymphoma in adolescents and adults: clinical characteristics and treatment outcome'.
72	Sujathan K	7 th International Conference on stem cells and cancer	21-23 Oct 2016, Raveendra Bhawan, Margao, Goa	Talk: 'Proteome profiling of cervical epithelial cells reveal galectins as markers for cervical cancer screening'.
73	Sunilkumar S	CME on Diagnostic Radiology and Radiotherapy	11 Aug 2016, Aizawl, Mizoram	Talk: 'Biological effects of ionising radiation'.
		National Conference of ISRT	1-3 Sept 2016, Hyderabad	Talk: 'Precision in RT- from image acquisition to treatment execution'.
		ISRT Assam, CME	12 Nov 2016, Dr B Borooah Cancer Institute, Guwahati	Talk: 'Radiobiology: principles'.
74	Sunitha Kumari UP	National Conference of ISRT	1-3 Sept 2016, Hyderabad	Paper: 'Role of 4D CT simulator in radiotherapy treatment'.
75	Swapna R. Nath	National-Round Table meet on Infection Control in Hemato-Oncology (N-RICH 2016)	30 Apr and 1 May 2016, JIPMER, Pondicherry	Delegate
		IndiaCLEN National Conference 2017	18-19 Mar 2017, Govt. Medical College, Thiruvananthapuram	Delegate
76	Thayal Singh Elias	AROICON 2016: Annual Conference of Association of Radiation Oncologists of India	24-27 Nov 2016, Bhubaneswar	1. Panelist on Pancreatic & GB Ca 2. Paper: 'A new S/w on calculation and R & V system for teletherapy'.
77	Varun Rajan	Myeloma State of the Art 2016 Conference	30 Sep - 01 Oct 2016, PGI Chandigarh	Delegate
78	Vishnu V	National Seminar on Academic Inclusion of Librarians in Digital Era	4-5 Nov 2016, Kerala Agricultural University, Thrissur	Chaired Session Talk: 'Role of libraries in academic and research excellence'.
		National Cancer Grid Librarian Meet and Training Programme	19 Dec 2016, Tata Memorial Hospital, Mumbai	Delegate
79	Zhenia Gopalakrishnan	AMPICON 2016: 37 th Annual Conference of Association of Medical Physicists of India	18-20 Nov 2016, Hyderabad	Poster: 'Calibration of nanodot OSLDs for in vivo dosimetry in external beam radiotherapy'.

ONGOING RESEARCH PROJECTS

EXTRAMURAL

Sl. No.	Principal Investigator	Project Title	Funded by	Status
BREAST				
1	Beela Sarah Mathew	Adjuvant Tamoxifen in breast cancer Longer Against Shorter (ATLAS).	Oxford University	Ongoing
2	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
<i>Initiated in 2006; Total participants 1,61,446; Total Screened- 74,230; Breast cancers identified: Intervention arm - 290, Control arm - 215. 3rd round of screening is ongoing.</i>				
CHEST & GASTRO-INTESTINAL				
3	Chandramohan K	Resistance in colorectal cancer: Tumor stem like cells as unique targets in residual disease	DBT, Govt. of India	Completed
4	Mira Wagh	Multicentric case study in carcinogenic and non carcinogenic polycyclic aromatic hydrocarbons and its impact on lung cancers: Role of smoking and occupational exposure	Science and Engineering Research Board, DST, Govt. of India	Ongoing
GYNAEC & GENITO-URINARY				
5	Rema P	MTA mediated invasion of stem like cells: implications in endometrial cancer.	DBT, Govt. of India	Ongoing
HEAD & NECK				
6	Bipin T.Varghese	Development of an indigenous voice prosthesis for rehabilitation of laryngectomies and its clinical evaluation	Kerala State Council For Science, Technology & Environment.	Ongoing
7	Paul Sebastian	Phase 3, double blind, placebo controlled study of post-operative adjuvant concurrent chemoradiotherapy with or without nimotuzumab for stage 3/4 head and neck squamous cell carcinoma.	National Cancer Centre, Singapore	Ongoing
8	Ramadas K	Estimation of tobacco attributable mortality in Kerala.	IARC, Lyon, France	Ongoing
9	Ramadas K	Role of human papillomavirus infection and other co-factors in the aetiology of head and neck cancer in Europe and India (HPV-AHEAD).	IARC, Lyon, France	Ongoing
<i>Initiated in 2012; Prospective - recruited 946 patients; Retrospective-recruited 482 patients</i>				
CANCER EPIDEMIOLOGY				
10	Paul Sebastian	Comparative study of Genetic, Clinical and Epidemiological factors of Breast Cancer in Indian population	Indian Council of Medical Research	Ongoing
<i>It is a Multi centric Epidemiological study to evaluate the risk factors and genomic basis of breast cancer in India with the specific objective to determine Life-style, clinical, Hormonal and other factors associated with breast cancer & to identify the mutational landscape of breast cancer (exome & transcriptome with validation).</i>				
11	Paul Sebastian	Pattern of care and survival studies in cancers of cervix, female breast and head and neck.	ICMR, Govt. of India	Ongoing
<i>Hospital based cancer survival rates are used to evaluate the care provided in the hospital and it is named as, Pattern of Care and Survival Studies (POCSS). Systematic data abstraction on patterns of care and survival in cancers of the uterine cervix, breast and head and neck cancer patients reporting to the RCC has been started since 2006 in collaboration with the NCRP of ICMR and expanded to obtain survival of ovarian cancer by the NCRP in 2017. On an average 30,000 patient data is abstracted & follow up information is updated regularly.</i>				
12	Paul Sebastian	Hospital-based cancer registry	Indian Council of Medical Research	Ongoing

	<i>HBCR of RCC, Thiruvananthapuram is in its 35th year under the network of National Cancer Registry Programme (NCRP), Indian Council of Medical Research (ICMR), Govt. of India. Detailed report of HBCR (2013) was published and provided in RCC web-site. During the period under reported, a total of 16,255 cases registered at RCC, 14495 (89.2%) cases were invasive cancers.</i>			
13	Aleyamma Mathew	Population Based Cancer Survival studies (PBCSS)	Indian Council of Medical Research	Ongoing
	<i>Population based cancer survival (PBCS) provides an idea of the effectiveness of the overall cancer control strategy in the registry area. It gives a baseline on impact of cancer and its treatment on the population and help plan health services facilities for improvement of survival. Population Based Cancer Survival Study on Cancers of the Breast, Cervix, Head & Neck is started in the division in 2017 in collaboration with NCRP of ICMR.</i>			
14	Aleyamma Mathew	Population Based Cancer Registry, Thiruvananthapuram.	ICMR, Govt. of India	Ongoing
	<i>PBCR, Thiruvananthapuram covering the entire district (3.3 million populations) is in its 6th year under the network of NCRP (ICMR) in 2017. First results (2012-2014) of PBCR, Thiruvananthapuram district were published. A remarkable finding of this PBCR is that Thiruvananthapuram district has the highest crude cancer incidence rate (174.8 and 175.0 per 100,000 males and females respectively for the year 2015 in India) (except Aizawl district, North East region).</i>			
CANCER RESEARCH				
15	Kannan S	Biology of NFκB and STAT3 Transcription Factors in Oral Carcinogenesis	Kerala State Council for Science, Technology & Environment	Ongoing
	<i>The present study is focused to delineate the alterations in NFκB and STAT3 transcription factors in oral cancer. Expression analysis at mRNA and protein level showed that NFκB and STAT3 transcription factors are co-expressed in all oral cancer cell lines examined. Co-expression status leads to the hypothesis that there is a presence of molecular cross-talk between NFκB and STAT3 signaling pathways in oral cancer. To evaluate the molecular cross-talk and functional significance of NFκB and STAT3 transcription factors, we performed siRNA mediated gene silencing in three cell lines. Knockdown experiments revealed a crosstalk between NFκB and STAT3 in OSCC. In the next phase, we planned to further explore the NFκB or STAT3 signaling biology by focusing on target genes of NFκB or STAT3 in oral cancer.</i>			
16	Kannan S	MicroRNA expression pattern in carcinoma of the uterine cervix in relation to HPV infection status.	Dept of Atomic Energy-Board of Studies in Nuclear Sciences (BRNS)	Completed
17	Sujathan K	CerviSCAN: Image analysis for reliable and cost effective cancer detection.	Swedish Research Link, Govt. of Sweden.	Ongoing
	<i>This is a collaborative project of RCC, CDAC-TVM and Uppsala University, Sweden which aims to study the significance of Fourier ptychography, to increase the imaging efficiency when extracting crucial information from the cell nuclei. Sample collection for this work is on progress.</i>			
18	Sujathan K	Study of the significance of DNA replication licensing proteins as markers of lung cancer and its precursors.	DBT, Govt. of India	Ongoing
	<i>We have identified a robust technique for the routine laboratory processing of sputum samples so that the whole cell content can be fished out without any morphological changes. Malignant cells and metaplastic cells in sputum have been characterized with DNA replication licensing proteins. This information can be translated in the clinical sputum cytology practice to supplement the conventional sputum cytology. The significance of nanocytology on samples processed by this method is being studied. Differential diagnostic markers of lung adenocarcinoma in sputum samples have been defined, which will be very helpful for subtyping Non- Small Cell Lung Carcinomas.</i>			
19	Sujathan K	Significance of Surface Enhanced Raman Scattering techniques in identifying squamous cell carcinoma and its precursor lesions in cervical smear.	CSIR, Govt. of India	Ongoing
	<i>A technique incorporating gold nanoparticle has been developed to use Surface Enhanced Raman Spectroscopy to differentiate cervical intraepithelial lesions and a differential spectrum has been found to distinguish cells of HSIL and malignancy from normal ones. A Portable device with in-built micro Raman system for cervical cancer screening using this information has been designed and industrial collaboration is being initiated to develop the same.</i>			
20	Lakshmi S	Isolation and characterization of primary tumor cells for screening of anacardic acid derivatives on the regulation of MMP and EGF pathways.	Amrita School of Biotechnology	Ongoing
	<i>Primary cell culture is being carried out for development of cell line from breast tumors. Effect of anacardic acid was evaluated in breast cancer cell lines for cytotoxicity and apoptosis.</i>			

21	Lakshmi S	Mutation Analysis of EGFR, KRAS, and BRAF genes in non-small cell lung cancer in Indian population	Kerala State Council for Science, Technology & Environment	Ongoing
<i>Initiated in January 2017. Recruited a JRF for carrying out the work. Procured equipment and reagents sanction for the under the project. Lung cancer samples are being collected and stored for analysis.</i>				
22	Sreelekha TT	Chemotherapeutics Loaded Polysaccharide-Nanoparticles to Overcome Drug Resistance in Cancer Cells and to Cross Blood Brain Barrier	CSIR, Govt. of India	Ongoing
<i>The current project is attempting to check the potential of a polysaccharide (PST001), isolated from seed kernel of Tamarindus indica, based nanoparticle loaded with chemotherapeutic agent doxorubicin (PST-Dox) to cross the BBB and overcome MDR and finally take forward for evaluating its therapeutic potential against glioma. PST001 was formulated into nanoparticles via ionic gelation technique using TPP as crosslinker during which, the broad spectrum chemotherapeutic agent; highly potent Doxorubicin was loaded. DLS analysis of PST-Dox showed that the formulation consists uniformly sized nanoparticles of average hydrodynamic diameter 77 nm with polydispersity index of 0.283. In addition to this, cell-culture was initiated by reviving the human glioma cell lines (U-87MG, U-251 and IMR-32) and rat astrocytoma (C6) from frozen state to normal culture to test the toxicological effect in vitro.</i>				
23	Sheeja K (BioCare -Women scientist Scheme)	Analysis of therapeutic potential of α -mangostin and Garcinone E from Mangosteen against oral cancer metastasis	DBT, Govt. of India	Ongoing
<i>Mangosteen fruits were collected; rind was separated and dried at room temperature. It was then powdered and extracted in 70% ethanol using soxhlet apparatus. Ethanol was evaporated at room temperature and lyophilized. The yield of the extract was calculated. Two different oral cancer cell lines (KB and HSC4) were maintained for in vitro studies. MTT assay was carried out to analyze the cytotoxic effect of mangosteen and clonogenic assay was performed to study the effect of mangosteen on proliferation and colony forming property of tumor cells. Confirmatory experiments to analyze the antimetastatic potential of mangosteen are in progress.</i>				
24	K.M. Sakthivel (SERB National Post Doctoral Fellowship)	Analysis of STAG1 (SA1) cohesion mutations in De novo AML patients from India and a comparative study of in vitro culture of AML native blasts and cell lines	DST, Govt. of India	Ongoing
<i>50 samples were collected and DNA isolated from bone marrow, the study is going on</i>				
25	Reshma PL (KBC Post-Doctoral fellow)	Paclitaxel loaded polysaccharide-nanoconjugates to overcome drug resistance in cancer cells	KBC, KSCSTE, Govt. of Kerala	Ongoing
<i>Paclitaxel, due to its poor solubility in water has difficulty in clinical administration. PST-Paclitaxel (PST-PTX) nanoparticle was prepared for controlled release of paclitaxel with less side effects. PST001 was isolated from Tamarindus indica seed kernel. The PST-PTX nanoparticle was characterized and size and zeta potential was found to be 220nm and +25mV respectively. Drug loading was evaluated by HPLC and it was found to be 50μg of drug in 1mg nanoparticle. The cytotoxicity of the nanoparticle is being evaluated in cancer cell lines.</i>				
26	Rasmi RR (KBC Post-Doctoral fellow)	Investigation of the ameliorative effect of 1,2 diazole on radiation induced lung injury and understanding its possible mechanism of action	KBC, KSCSTE, Govt. of Kerala	Ongoing
<i>Radiation induced lung injury is a common and unavoidable complication of thoracic radiotherapy. The pathogenesis of radiation-induced lung injury is complex and involves a series of events starting from oxidative stress to tissue damage. The initial works carried out by the candidate shows that 1,2 diazole treatment could decrease the damage caused due to radiation in lungs and the treatment significantly increased the life span of the radiation exposed animals. Further studies on the protective effect of 1,2 diazole on inhibition of lung fibrosis formation and its role in modulating inflammatory mediators are in pipeline.</i>				
27	Krishna Chandran R (ICMR Senior Research Fellowship)	Identification of prognostic markers to alleviate the therapeutic challenges in advanced phases of CML: a cytogenetic and molecular approach	ICMR, Govt. of India	ongoing
<i>In order to understand the mechanism responsible for CML progression from benign chronic phase to fatal blast crisis, we carried out both genetic & molecular studies. Chromosomal studies proved that chromosomal aberrations were more common in advanced phases of CML compared to CP, there by suggesting that clonal evolution plays a major role in disease progression of CML. Gene expression analysis by qRT PCR revealed that expression patterns of several genes were altered in AP & BC phases when compared to healthy control groups and CP samples. Hence it can be concluded that chromosomal aberrations and gene expression profile played a major role in disease progression of CML.</i>				

COMMUNITY ONCOLOGY				
28	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
29	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
<i>As part of the community based cluster randomized controlled trial in connection with the Trivandrum Breast Cancer Screening project, cervical cancer screening using VIA, VILI is being conducted in the control group of the study areas.</i>				
NATURAL BACKGROUND RADIATION CANCER REGISTRY				
30	Paul Sebastian	India- Japan Co-operative Research Programmes on Health effects of natural radiation in Karunagappally, Kerala	Health Research Foundation, Japan	Ongoing
<i>The project is continuing with the aim of estimating the health effects of natural radiation in High Background Radiation area (HBRA) Karunagappally, Kerala. Studies concentrating mainly on cancer, Non-cancerous diseases, dose measurements and biological parameters covering the cohort of 4 lakhs population.</i>				
31	Raghu Ram K. Nair	Natural Background Radiation Registry (NBRR): Individual & ingested dose estimation	Health Research Foundation, Japan	Ongoing
<i>Dosimetric measurements - ingested and inhaled dose estimation of the residents in HBRA area, Karunagappally.</i>				
32	Jayalekshmi P	Radiation Epidemiologic studies, Karunagappally, Kerala, India.	Health Research Foundation, Japan	Ongoing
<i>Follow up of the residents of HBRA. Migration, Mortality and Cancer Incidence survey undertaken covering 4 lakhs population periodically.</i>				
33	Paul Sebastian	Prevalence of cataract in HBRA, Karunagappally	Health Research Foundation, Japan	Ongoing
<i>The project aims to evaluate the prevalence of cataract and lens opacity among the residents of high and low background areas. 900 females have undergone eye examinations using slit lamp by ophthalmologist and analysis is ongoing.</i>				
34	Paul Sebastian	Prevalence of Atherosclerosis in HBRA, Karunagappally	Health Research Foundation, Japan	Ongoing
<i>The project evaluates the prevalence of atherosclerosis among the residents. CAVI & IMT measurements completed. Biochemical Investigations ongoing by conducting field camps.</i>				
35	Paul Sebastian	District Cancer Registry	ICMR, Govt. of India	Ongoing
<i>District Cancer Registry under the network of NCRP, ICMR provides incidence and pattern of Kollam District. 3750 incident cancer cases & 1550 mortality cases registered during 2016. The major sites among males are lung and prostate and among females, breast and thyroid.</i>				
36	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
<i>Cytogenetic study is ongoing concentrating on the analysis of unstable chromosomes among high background radiation area (HBRA) residents.</i>				
PAEDIATRIC ONCOLOGY				
37	Kusumakumary P	Multiplex Profiling of chromosomal translocations, mutations and MDR in leukemia cells and development of biomarkers for targeted personalized medicine.	Kerala State Council For Science, Technology & Environment.	Completed

OTHER FUNDED PROJECTS

Sl. No.	Principal Investigator	Project title	Funded by	Status
CANCER EPIDEMIOLOGY				
1	Aleyamma Mathew, Preethi Sara George	Assessment of Cancer Density Maps for Cancer Control in Trivandrum, South India	New India Assurance Company Ltd.	Ongoing
<i>The objective of this study is to obtain density maps of cancer patients by using Global Positioning System (GPS) and examine the relationship between cancer incidence and its land cover as well as elevation of Trivandrum district. This kind of spatial analysis by utilizing sophisticated mapping techniques and cancer registry data was first of its kind in India.</i>				
2	Kalavathy MC	Pap-smear screening programme among women attending peripheral cancer detection campaigns in Thiruvananthapuram	Trivandrum Corporation, Jilla Panchayats & NGOs	Ongoing
3	Kalavathy MC	Pap-smear screening programme among women with gynecological problems reported in a hospital	Trivandrum Corporation & Panchayats	Ongoing
COMMUNITY ONCOLOGY				
4	Jayakrishnan R	School based programmes against tobacco and alcohol consumption in high school/ higher secondary schools of rural Kerala.	State Health Systems Resource Centre, Kerala	Ongoing
5	Jayakrishnan R	Survey on Impact of Gutkha ban on tobacco consumption behavior in Kerala	MANT, Kolkata	Ongoing
6	Sreekumar C	Prevention and control of cancer among the tribal population of Kerala state.	Kerala State Development Corporation for SC & ST	Ongoing
NATURAL BACKGROUND RADIATION CANCER REGISTRY				
7	Jayalekshmi P	Cancer detection projects – 4 Nos.	Grama, Block Panchayats, Karunagappally & Kollam	Ongoing
<i>7944 subjects undergone cancer detection in the rural areas of Kollam district. Awareness classes were also undertaken benefitted in motivating the people for early detection.</i>				

PHARMA/INDUSTRY SPONSORED

Sl. No.	Principal Investigator	Project title	Funded by	Status
BREAST				
1	Beela Sarah Mathew	ALTTO (Adjuvant Lapatinib and/or Trastuzumab Treatment Optimisation) study. A randomised, 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.	Glaxo Smith Kline	Ongoing
2	Beela Sarah Mathew	A randomized, open-label, multicenter, phase 3 study of epoetin alfa plus standard supportive care versus standard supportive care in anemic patients with metastatic breast cancer receiving standard chemotherapy.	Johnson & Johnson	Ongoing
3	Rajeev KR	A phase II open-label randomized study of a fixed-dose combination of capecitabine and cyclophosphamide administered at different doses/regimens with metronomic schedule in patients with metastatic breast cancer.	Sanofi	Study Discontinued
CHEST & GASTRO-INTESTINAL				
4	Sajeed A	BEVZ92-A-01-13: Open label randomized bioequivalence study to evaluate the pharmacokinetic (PK) and safety profile of Bevacizumab Biosimilar (BEVZ92) in combination with Folfox or Folfiri versus Bevacizumab (Avastin*) in combination with FOLFOX or FolfirI as first-line treatment in patients with metastatic colorectal cancer (mCRC).	mAbxience Uruguay	Closed out Enrolled 3 patients
5	Sajeed A	Aspirin for Dukes C and High Risk Dukes B colorectal cancers. An international, multi-centre, double blind, randomised placebo controlled Phase III trial.	Singapore Clinical Research Institute	Ongoing
6	Sivanandan CD	Multicentric, randomised, double blind, phase III 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 IIIB/IV or recurrent non small cell lung cancer after failure of first line chemotherapy.	Boehringer Ingelheim	Completed. Analysis results awaited Enrolled 5 patients
7	Sivanandan CD	Phase II study of Cancer patients failing prior therapies (GIST, NSCLC, Colon & pancreatic cancer.	NATCO pharma Limited	Closed out Enrolled 1 patient
8	Sivanandan CD	BMI00-CC-03-1-01:A Double blind, Randomized, Active controlled, Parallel Design, Comparative PK, Efficacy, Safety and immunogenicity study of Bmab 100 and Avastin®, both in combination with XELOX chemotherapy, in patients with Metastatic colorectal cancer.	Biocon research LTD	Closed out Enrolled 4 patients
9	Sivanandan CD	Comparing two humanized monoclonal antibodies that target VEGF in combination with mFOLFOX6 in patients with non resectable metastatic colorectal cancer.	Dr. Reddy's Lab	Ongoing
GYNAEC & GENITO-URINARY				
10	Francis V. James	Multicentre, single arm, open label, non controlled phase 4 clinical trial to evaluate safety of cabazitaxel (Jevtana) in combination with oral prednisone (or prednisolone) for the treatment of patient with metastatic hormone refractory prostate cancer previously treated with docetaxel - containing regimen.	Sanofi Aventis	Completed

11	Aswin Kumar	Multicentre, randomized, open label, active-controlled, 2 parallel groups, phase 3 study to compare efficacy and safety of masitinib at 7.5 mg/kg/day to dacarbazine in the treatment of patients with non resectable or metastatic stage 3 or 4 melanoma carrying a mutation in the juxta membrane domain of c-kit.	AB Science	Ongoing
12	Susan Mathews	An open-label, multicentre study to assess the safety of RO5185426 in patients with metastatic melanoma.	Roche	Ongoing
Haematological, Lymphoreticular, Bone & Soft tissue				
13	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.	Bristol Myers Squibb	Ongoing
14	Sreejith Nair	A randomized, controlled, double-blind phase III trial to compare the efficacy, safety and pharmacokinetics of GP2013 plus cyclophosphamide, vincristine and prednisone vs. MabThera® plus cyclophosphamide, vincristine, prednisone, followed by GP2013 or MabThera® maintenance therapy in patients with previously untreated, advanced stage follicular lymphoma	Novartis	Ongoing
HEAD & NECK				
15	Rejnish Kumar R	A phase II, multicenter, randomized, double blind, placebo controlled study assessing the efficacy of buparlisib (bkm120) plus paclitaxel vs. placebo plus paclitaxel in patients with platinum pre-treated recurrent or metastatic head and neck squamous cell carcinoma.	Novartis	Completed
16	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	Partial closure done, Awaiting close down
<p><i>Study has closed recruitment and is on the follow-up phase. A total of 16 patients were screened of which 14 were randomized and 2 patients are on follow up.</i></p>				

IN-HOUSE PROJECTS

Sl. No.	Principal Investigator	Project title	Status
ANAESTHESIOLOGY			
1	Rachel Cherian Koshy	Assessment of analgesic efficacy of bilateral superficial cervical block for thyroid surgeries under general anaesthesia.	Ongoing
2	Mary Thomas	The effect of preoperative anxiety and depression on post operative pain in breast cancer surgery.	Ongoing
3	Mary Thomas	Performance in 6mwt for predicting postoperative pulmonary complications at a tertiary care hospital.	Ongoing
4	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
5	Venugopal A	A comparison of pharyngolaryngeal morbidity following supraglottic airway insertion after the administration of betamethasone gel or lidocaine jelly: an observational study	Ongoing
6	Venugopal A	Direct laryngoscopy versus video laryngoscopy for expected difficult tracheal intubation: A prospective observational study	Ongoing
7	Viji S. Pillai	Setting up of Malignant Hyperthermia Help Centre at RCC, Thiruvananthapuram.	Ongoing
8	Viji S. Pillai	A prospective observational study on relevance of routine pre operative investigations.	Ongoing
9	Viji S. Pillai	Ultrasonographic evaluation of variation in relation of internal jugular vein to common carotid artery.	Ongoing
10	Sudha P	Routine TSH estimation in preanaesthetic workup for cancer surgeries-identifying the relevance.	Ongoing
11	Sudha P	Safety and postoperative analgesic efficacy of posterior TAP block for lower abdominal gynecological surgery.	Ongoing
12	Sudha P	A prospective observational study comparing TIVA and inhalational anaesthesia for controlled hypotension in radical reconstructive surgeries for oral cancer.	Ongoing
13	Sudha P	A prospective observational study on the predictability of postoperative nausea and vomiting in patients undergoing oncosurgeries under general anaesthesia.	Ongoing
14	Sudha P	Effect of BIS monitoring on sevoflurane consumption in patients undergoing breast cancer surgeries under general anaesthesia.	Ongoing
15	Subha R	Effect of pre-operative warming on post induction core temperature and incidence of post-operative shivering in patients undergoing general anaesthesia.	Ongoing
16	Bhagyalekshmi R	A prospective observational study to identify the incidence and predictors of major perioperative adverse cardiovascular events in major oncological surgeries.	Ongoing
17	Bhagyalekshmi R	Role of pre operative investigations in elderly patients undergoing oncosurgical procedures.	Completed
18	Deepthi J. Prabhu	Quality assessment of hand hygiene and effectiveness of WHO six steps training among health care personnel in a tertiary care hospital.	Ongoing
BREAST & CENTRAL NERVOUS SYSTEM			
19	Beela Sarah Mathew	Outcomes of the Treatment of Stage I-III HER2 Positive Breast Cancers at Regional Cancer Centre, Thiruvananthapuram.	Completed/ Article under preparation
20	Beela Sarah Mathew	Impact of subventricular zone (SVZ) irradiation on outcome of patients with glioblastoma multiforme.	Completed & Submitted for publication

21	Beela Sarah Mathew	Comparison of outcome after breast conservation therapy and modified radical mastectomy in women with pT1-2, N0 triple negative breast cancer: a retrospective study.	Completed/ Article under preparation
22	Beela Sarah Mathew	Comparison of imaging modalities for the accurate delineation of arteriovenous malformations & evaluation of set up accuracy with reference to frameless stereotactic radiosurgery.	Ongoing
23	Beela Sarah Mathew	Results of curative Hypofractionated Radiotherapy for stage I-III breast cancer patients.	Ongoing
24	Asha Arjunan	Observational analysis of clinical profile and treatment outcome of newly diagnosed GBM patients.	Ongoing
25	Asha Arjunan	Clinical outcome of adjuvant radiotherapy in early stage breast cancer with 1 to 3 positive axillary lymph nodes: A single institution experience.	Ongoing
26	Paul Augustine	Expression of immunomodulatory molecule PDL-1 (Programmed death ligand-1) in triple negative invasive breast cancer.	Ongoing
CANCER EPIDEMIOLOGY			
27	Aleyamma Mathew	Diabetes Mellitus and Endometrial Cancer: A Meta-Analysis.	Ongoing
28	Aleyamma Mathew	The Impact of Socioeconomic Status (SES) on Stage and Survival of Gastrointestinal Cancer: A Comparative Study of Canada and South India.	Ongoing
<i>This comparative study represents a collaborative effort between investigators at the Regional Cancer Centre (RCC) in Thiruvananthapuram, India and Queen's University in Kingston, Canada. In this collaboration, the investigators will use cancer registry data to describe and compare the association between socioeconomic status (SES), stage of cancer, and survival in Kerala and Ontario. This proposed collaborative study will provide an opportunity to gain insights into how to improve cancer health system performance in Canada and South India.</i>			
29	Aleyamma Mathew	Reasons for Diagnostic Delay, Treatment Refusal/Incompleteness, and Loss to Follow-up: A Hospital-Based Cancer Registry Study in Trivandrum, India.	Ongoing
<i>The objective of this study is to assess the reasons for treatment refusal/incompleteness and loss to follow-up using the hospital-based cancer registry, RCC data of patients reported during 2014-2015.</i>			
30	Preethi Sara George	Determination of optimum cut point to separate high and low risk patients in cancer survival.	Ongoing
31	Kalavathy M.C	Evaluation of Papsmear screening and HPV pattern among women with ASCUS (Atypical Squamous Cells of Undetermined Significance) in Trivandrum, South Kerala	Ongoing
32	Jagathnath Krishna KM	Mixture modelling for cancer survival	Ongoing
33	Jagathnath Krishna KM	Bias in cancer survival due to non-proportional hazards.	Ongoing
CHEST & GASTRO-INTESTINAL			
34	Chandramohan K	Immunological assessment in laparoscopy versus open colorectal surgery.	Completed
35	Chandramohan K	Prospective observational study in lymph nodal harvest in non fixed wet specimen of rectal malignancy.	Completed
36	Chandramohan K	Change in Quality of Life of patients undergoing different treatment protocols for Advanced Carcinoma Esophagus and OG Junction	Ongoing
37	Sivanandan CD	Retrospective comparison of post operative adjuvant chemo-radiation versus peri-operative chemotherapy protocol in adenocarcinoma of stomach and gastro-esophageal junction in terms of clinical outcome.	Completed
<i>The study showed 3 yr overall survival of 69% and 53% for adjuvant chemo-radiation and peri-op chemotherapy, but was not statistically significant.</i>			

38	Sivanandan CD	Short course preoperative radiotherapy for operable adenocarcinoma rectum: A prospective observational study.	Ongoing
39	Madhu Muralee	Prevalence and predictors of apical lymph node involvement in locally advanced rectal cancers in the era of combined modality therapy.	Completed
40	Madhu Muralee	Prevalence and predictors of complete pathological response in breast cancer patients undergoing surgery after neoadjuvant chemotherapy.	Ongoing
41	Sajeed A	Treatment outcome of limited stage small cell lung carcinoma patients treated with radical chemoradiotherapy; prospective observational study.	Completed
<i>Concurrent chemotherapy with once daily RT was well tolerated with good response rate of 89% and one year progression free survival of 65% and overall survival of 73%.</i>			
42	Sajeed A	Assessment of late radiation toxicity in gastric pancreatic and periampullary adenocarcinoma after post operative adjuvant radiotherapy: An observational study	Ongoing
43	Roshni S	Evaluation of treatment outcome and acute toxicity in patients undergoing adjuvant therapy in ductal carcinoma of pancreas.	Ongoing
44	Roshni S	Demographic profile of lung cancer.	Ongoing
<i>To study the demographic and clinic pathological profile and Lung cancer patients registering in thoracic oncology service of tertiary referral cancer centre (RCC). This is performed as prospective observational study.</i>			
45	Arun Sankar	Prospective comparative study of dosimetric parameters in Three dimensional Vs Four dimensional CT image acquisition of carcinoma lung.	Ongoing
GYNAEC & GENITO-URINARY			
46	Francis V. James	Inflammatory markers in Cancer cervix	Ongoing
47	Rema P	Evaluation of Bristow's score and CA125 response in predicting operability during interval cytoreduction.	Ongoing
48	Rema P	MTA mediated invasion of stem like cells: implications in endometrial cancer.	Ongoing
49	Rema P	Validation of laparoscopy based score for predicting surgical outcome in patients undergoing interval debulking for advanced ovarian cancer.	Completed
50	Suchetha S	A prospective randomized controlled trial investigating the role of subcutaneous suction drain in the prevention of superficial surgical site infections following midline laparotomy in gynecological oncosurgery.	Completed
HAEMATOLOGICAL & LYMPHORETICULAR			
51	Geetha N	The prognostic significance of absolute lymphocyte and monocyte count and the lymphocyte to monocyte ratio at diagnosis in patients with classical Hodgkin's lymphoma: A follow up study.	Ongoing
52	Geetha N	A prospective study of NF-KB expression in multiple myeloma and its correlation with response to bortezomib.	Ongoing
53	Geetha N	The prognostic significance of absolute lymphocyte and monocyte count and the lymphocyte to monocyte ratio at diagnosis in patients with non Hodgkin's lymphoma: A follow up study.	Ongoing
54	Geetha N	P-glycoprotein expression in newly diagnosed Acute myeloid leukemia in adults and its impact on treatment outcome	Ongoing
55	Geetha N	The prognostic significance of myeloid antigen coexpression in adult acute lymphoblastic leukemia: A follow up study.	Ongoing
56	Geetha N	FLT3 mutation and its prognostic significance in newly diagnosed Acute myeloid leukemia in adult (Prospective study).	Ongoing

57	Geetha N	Correlation of BCR-ABL I transcript levels at 3 rd month with subsequent cytogenetic response in chronic myeloid leukemia patient in chronic phase treated with imatinib mesylate.	Ongoing
58	Geetha N	Cytogenetic abnormalities and risk stratification of multiple myeloma patients by 'FISH' technique.	Ongoing
59	Geetha N	Outcome of newly diagnosed multiple myeloma with renal dysfunction. A retrospective study.	Ongoing
60	Geetha N	Quality of life and functional outcome in long term survivors of osteosarcoma.	Ongoing
61	Geetha N	Estimation of Plasma Epstein Barr virus DNA in patients with Hodgkin's lymphoma and its correlation with treatment response.	Ongoing
62	Sreejith Nair	A prospective study to evaluate association between normalization of free light chains and outcome in patients with multiple myeloma.	Ongoing
63	Prakash NP	Clinical spectrum and outcome of Carbapenem resistant infections in patients with acute leukemia	Ongoing
HEAD & NECK			
64	Ramadas K	Frequency of human papillomavirus infection in oral squamous cell carcinoma and its clinical significance: A retrospective study.	Ongoing
<i>100 HPV positive patients have been included and is being followed up so far.</i>			
65	Rejnish Kumar R	Molecular dynamics of Epstein Barr virus in carcinoma nasopharynx.	Ongoing
<i>36 patients recruited into the study</i>			
66	Rejnish Kumar R	Set-up uncertainties at different anatomical levels in IMRT for nasopharyngeal cancer	Recruitment Ongoing
<i>20 patients included in the dosimetric study. Dosimetric analysis of the recruited patients is ongoing.</i>			
67	Kainickal CT	Clinical Outcome and late toxicity in IMRT treated cases of CA nasopharynx.	Ongoing
<i>90 patients recruited into the study.</i>			
68	Shaji Thomas	Prospective evaluation of transoral laser in T1, T2 Malignancies and potentially malignant lesion.	Ongoing
69	Shaji Thomas	A prospective observational study of outcome of supraclavicular flap in reconstruction of head and neck oncologic defects.	Ongoing
70	Elizabeth Mathew Iype	Evaluation of outcome and the incidence of laryngoesophageal dysfunction in T3 laryngeal and hypopharyngeal malignancies treated by chemoradiation.	Ongoing
71	Elizabeth Mathew Iype	Hypoxia inducible factor, HIF-1 α expression as an indicator of clinical profile, tumour characteristics and locoregional control in squamous cell carcinoma of the tongue.	Ongoing
72	Elizabeth Mathew Iype	Treatment outcomes of transoral microlaryngeal CO ₂ LASER surgery Vs radiation therapy for early glottic carcinoma.	Ongoing
IMAGEOLOGY			
73	Ramachandran K	CAD detection of bone tumour and tumour like conditions with conventional radiograph (Joint project by RCC and NIT, Calicut).	Ongoing
PAEDIATRIC ONCOLOGY			
74	Kusumakumary P	Troponin I to detect early anthracycline induced cardiomyopathy in children with acute leukemia.	Completed
75	Priyakumari T	Pediatric acute myeloid leukemia: clinicopathological profile and treatment outcome.	Ongoing
76	Priyakumari T	Loss of protective Anti HbS antibodies and seroconversion to Hepatitis B vaccination in children during chemotherapy for acute lymphoblastic leukemia.	Ongoing
77	Priyakumari T	Long term adverse effects of Imatinib in children with Chronic Myeloid Leukemia.	Ongoing

78	Priyakumari T	Blood stream infections in children with central venous catheter on chemotherapy: A prospective observational study.	Ongoing
79	Priyakumari T	A collaborative protocol for newly diagnosed indian childhood hodgkin lymphoma patients.	Ongoing
80	Manjusha Nair	Iron overload in pediatric leukemia patients receiving blood transfusions.	Completed
PATHOLOGY			
81	Jayasree K	Comparative study of the diagnostic indices of IHC Markers CD99 and FLI- 1 in skeletal Ewing's sarcoma and other small round cell tumours of bone.	Ongoing
82	Jayasree K	Histological spectrum of giant cell lesions of the bone and its clinico-radiological correlation : a retrospective study	Ongoing
83	Anitha Mathews	Comparison of expression pattern of HR and HER2/neu protein in primary breast carcinoma and synchronous LN metastasis.	Ongoing
84	Anitha Mathews	Pathological response to neoadjuvant chemotherapy and related changes in patients with carcinoma breast.	Ongoing
85	Nileena Nayak	Diagnostic accuracy of FNAC and core needle biopsy in breast carcinoma.	Ongoing
86	Thara Somanathan	Semiquantitative hormone receptor scoring system-H score and ALLRED score- in clearly distinguishing hormone receptor positive cases from receptor negative cases and interobserver agreement among pathologists.	Ongoing
87	Preethi TR	Clinicopathological analysis of serous borderline tumours and low grade serous carcinomas of ovary: A retrospective study.	Ongoing

PUBLICATIONS

Journal Articles	
1.	Abdul Shahid PP, Prem S, Jacob PM, Nair RA. 'Mediastinal mass with hyper-eosinophilia in a young boy: a diagnostic dilemma.' Journal of Clinical and Diagnostic Research. 2016/10(7):3-4.
2.	Abraham RM. 'Hepatocellular carcinoma: medical management' Indian Journal of Oncology Nursing. 2016/17(1):11-4.
3.	Anila KR, Chandramohan K, Mathew A, Somanathan T, Jayasree K. 'Role of frozen section in the intra-operative margin assessment during breast conserving surgery' Indian Journal of Cancer. 2016/53(2):235-8.
4.	Anila KR, Nayak N, Jayasree K. 'Cyto-morphologic spectrum of lymphocytic thyroiditis and correlation between cytological grading and biochemical parameters' Journal of Cytology. 2016/33(3):145-9.
5.	Anjanappa M, Kumar A, Mathews S, Joseph J, Jagathnathkrishna KM, James FV. 'Testicular seminoma: are clinical features and treatment outcomes any different in India?' Indian Journal of Cancer. 2017/54(1): 385-7.
6.	Anoop TM, Kumar BS, Gopan G, Unnikrishnan P. 'Retroperitoneal Evans Tumour' Scholars Journal of Medical Case Reports. 2017/5(1):22-3.
7.	Aswathy CG, Hariharan S. 'Review on studies in high background radiation areas (HBRAs) of various parts of the World' International Journal of Advanced Research in Biological Sciences. 2016/3(8):163-9.
8.	Binitha R, Nair M, Ninan A, Kusumakumary P. 'Ovarian tumors in children: 10 year experience from a tertiary care center in South India' Indian Journal of Cancer. 2016/53(2):292-5.
9.	Binitha R, Reghu KS, Kusumakumary P, Mathew A. 'Low-grade papillary adenocarcinoma of nasopharynx with expression of thyroid transcription factor-1: case report and review of literature' Indian Journal of Pathology & Microbiology. 2016/59(4): 518-20.
10.	Chandramohan K, Mathew AP, George PS. 'Lung cancer: presentation and pattern of care in a cancer center in South India.' Indian Journal of Cancer. 2017/54(1): 164-8.
11.	Cheriyian VT, Nelson CJ, Balaran P. 'T-cells in immunobiology of tumors and immunotherapy' Journal of Clinical & Cellular immunology. 2016/7(1): Article ID: 392.
12.	Daniel S, Nair KGB, Manju PN, Sadasivan S. 'Juvenile hyaline fibromatosis: report of a rare case with subcutaneous nodules as the sole manifestation' Journal of Evidence Based Medicine and Healthcare. 2016/3(90): 4941-4.
13.	Danish E, Vishnu H, Unnikrishnan P, Krishnan SK, Anoop TM. 'A case of fibro muscular dysplasia with abdominal aortic aneurysm' Scholars Journal of Medical Case Reports. 2016/4(6): 376-8.
14.	Deepa M, Suvamalatha. 'Problems of patients after traumatic brain injury: a cross sectional study'. Global Journal for Research Analysis. 2017/6(3): 28-9.
15.	Del Paggio JC, Azariah B, Sullivan R, Hopman WM, James FV, Roshni S, Tannock IF, Booth CM. 'Do contemporary randomized controlled trials meet ESMO thresholds for meaningful clinical benefit?' Annals of Oncology. 2016/28(1): 157-62.
16.	Dhanya SR, Farha AK, Arya RM, Arun KB, Remani P, Prakasan N, Varughese S, Mangalam SN. 'Anticancer activity studies of cubebin isolated from <i>Piper cubeba</i> and its synthetic derivatives' Bioorganic and Medicinal Chemistry Letters. 2016/26(7): 1767-71.
17.	Gathani T, Barnes I, Ali R, Arumugham R, Chacko R, Digumati R, Jivarajani P, Kannan R, Loknatha D, Malhotra H, Mathew BS. 'Lifelong vegetarianism and breast cancer risk: a large multicentre case control study in India' BMC Women's Health. 2017/17(1): Article ID: 6.
18.	Geetha N, Anoop TM, Haridas L, Lali VS. 'Hodgkin's lymphoma occurring secondary to autologous stem cell transplantation in plasma cell leukemia: a case report' Iranian Journal of Blood & Cancer. 2017/9(1): 24-6.
19.	Geetha N, Baby A, Somanathan T, Konoth S. 'Synovial sarcoma of the larynx: report of a case and review of literature' Case reports in Otolaryngology. 2017/2017: Article ID: 6134845.
20.	Geetha N, Devi NR, Mathew SP. 'Osteogenic sarcoma of the maxilla in an adolescent' Scholars Journal of Medical Case Reports. 2016/4(4): 274-5.
21.	Geetha N, Joseph R, Lali VS. 'Bilateral synchronous plasmacytoma of the testis' Proceedings (Baylor University Medical Center). 2016/29(2): 196-7.
22.	Geetha N, Nath SR. 'Disseminated Fusarium Fungemia in a patient with acute myeloid leukemia' Mayo Clinic Proceedings. 2016/91(4): 542-3.
23.	Geetha N, Prabhakaran P, Lali VS. 'Multiple myeloma presenting as cryoglobulinemia: a case report' Austin Journal of Clinical Case Reports. 2016/3(3): Article ID: 1096.
24.	Geetha N, Rajan V, Sajeed A, Haridas L. 'Granulocytic sarcoma occurring in association with mediastinal germ cell tumor: report of a case and literature review' Scholars Journal of Medical Case Reports. 2016/4(9): 647-9.
25.	Geetha N, Sreelesh KP, Somanathan T, Lali VS. 'Ewing's sarcoma of the cranial vault' Journal of Neurosciences in Rural Practice. 2016/7(5): 109-11.
26.	Geetha N, Sugeeth MT, Lali VS. 'Mixed phenotype acute leukemia presenting as leukemia cutis' Case Reports in Medicine. 2016/2016: Article ID: 1298375.

27.	Geetha N, Unnikrishnan P, Kumar BS. 'Hypercalcemia and osteolytic lesion as presenting feature in an adult PH positive acute lymphoblastic leukemia patient mimicking multiple myeloma' European Journal of Pharmaceutical and Medical Research. 2017/4(3): 490-1.
28.	George PS, Mathew A. 'Spatial distribution of cancer in Trivandrum, India using Geographic Information System: pilot study' Academic Journal of Cancer Research. 2016/9(3): 35-41.
29.	James AR, Shiji R, Kusumakumary P, Nair M, George SK, Sreelekha TT. 'Profiling gene mutations, translocations, and multidrug resistance in pediatric acute lymphoblastic leukemia: a step forward to personalizing medicine' Medical Oncology. 2016/33(9): Article ID: 98.
30.	James AR, Unnikrishnan BS, Priya B, Joseph MM, Manojkumar TK, Pillai KR, Shiji R, Preethi GU, Kusumakumary P, Sreelekha TT. 'Computational and mechanistic studies on the effect of galactoxyloglucan: Imatinib nanoconjugate in imatinib resistant K562 cells' Tumor Biology. 2017/39(3): 1-15.
31.	Janardhan D, Thomas S, Krishnan SK, John PK. 'Supraclavicular artery flap-a promising versatile flap: an early experience' International Journal of Head and Neck Surgery. 2016/7(4): 228-30.
32.	Janardhan D, Varghese BT, Sharath S, Mathews A. 'Isolated maxillary Rosai Dorfmann disease masquerading as a malignancy' International Surgery Journal. 2016/3(4): 2292-4.
33.	Jayakrishnan R, Seema G, Krishna JKM, Thomas G, Sebastian P. 'Tobacco and alcohol use and the impact of school based antitobacco education for knowledge enhancement among adolescent students of rural Kerala, India ' Journal of Addiction. 2016/2016: Article ID: 9570517.
34.	Jayasudha AV, Nair RA, Nayak N, Sukumaran R. 'Extranodal natural killer/T-cell lymphoma, nasal type with central nervous system and bone marrow involvement: report of a rare case with review of literature' Clinical Cancer Investigation Journal. 2016/5(5): 501-3.
35.	Jayasudha AV, Nair V, Sukumaran S. 'Evaluation of risk of malignancy index in the preoperative assessment of ovarian tumors: study from a tertiary care center' Saudi Journal for Health Sciences . 2016/5(2): 67-71.
36.	Joseph MM, Aswathy G, Manoj kumar TK, Sreelekha TT. 'Galactoxyloglucan-doxorubicin nanoparticles exerts superior cytotoxic effects on cancer cells: a mechanistic and in silico approach' International Journal of Biological Macromolecules. 2016/92(1): 20-9.
37.	Kalavathy MC, Mathew A, Sujathan K, Saritha VN, Krishna JKM, Jayasree K. 'Squamous cell abnormalities and risk factors on 10,979 pap-smears in a tertiary care hospital in Trivandrum, South India ' International Journal of Science and Research. 2017/6(1): 2056-61.
38.	Kumar NP, Venugopal M, Mathews A, James FV. 'Mixed germ cell tumour in a case of pure gonadal dysgenesis (Swyer syndrome): a case report' Cureus. 2016/8(1): Article ID: e459.
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40.	Kumar SN, John S, Iype EM, Thomas S. 'Hypoglossal schwannoma: a rare case report' Journal of Case Reports and Studies. 2016/4(2): Article ID: 201.
41.	Kuriakose MA, Ramadas K, Dey B, Iyer S, Rajan G, Elango KK, Suresh A, Ravindran D, Kumar RR, Prathiba R, Ramchandran S, Kumar NA, Thomas G, Somanathan T, Ravindran HK, Ranganathan K, Katakam SB, Parashuram S, Jayaprakash V, Pillai MR. 'A randomized double-blind placebo-controlled phase IIB trial of curcumin in oral leukoplakia' Cancer Prevention Research. 2016/9(8): 683-91.
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43.	Lijeesh AL, Roshni S, Anila KR. 'Squamous cell carcinoma oesophagus with scalp mets, a rare presentation: a case report' Journal of Carcinogenesis. 2016/15(1): S230.
44.	Manasa VG, Kannan S. 'Impact of microRNA dynamics on cancer hallmarks: an oral cancer scenario' Tumor Biology. 2017/39(3): 1-14.
45.	Mathew A, George PS, Arjunan A, Augustine P, Kalavathy MC, Amma PG, Mathew BS. 'Temporal trends and future prediction of breast cancer incidence across age groups in Trivandrum, South India' Asian Pacific Journal of Cancer Prevention. 2016/17(6): 2895-9.
46.	Mathew A, James FV. 'Prostate cancer trends in developing countries' Cancer Studies and Molecular Medicine. 2016/3(1): Article ID: 1000CSMMOJ3e003
47.	Mathew SP, Vishnu H, Krishnan SK, Anjumol CP, Anoop TM. 'Pneumatosis intestinalis as an initial presentation of acute myeloid Leukemia' Scholars Journal of Medical Case Reports. 2016/4(6): 372-3.
48.	Mathews A, Keiko O, Buckland ME, Kesavadas C, Ratheesan K, Kusumakumary P, Burger PC, Kohsaka S, Graeber MB. 'Microglioma in a child: a further case in support of the microglioma entity and distinction from histiocytic sarcoma' Clinical Neuropathology. 2016/35(5): 302-13.

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51.	Mini PN, Anoop TM, Gopan G, Kumar BS. 'Henoch-Schönlein purpura with small bowel haemorrhage in an adult' <i>Scholars Journal of Applied Medical Sciences</i> . 2017/5(1B): 148-9.
52.	Mini PN, Anoop TM. 'Lip-lick dermatitis' <i>New Zealand Medical Journal</i> . 2017/130(1451): 68.
53.	Mony RP, Nair SP, Somanathan T, Mathews A, Jayasree K. 'Benign tumors mimicking sarcoma clinically: 3 case reports' <i>Journal of Medical Science and Clinical Research</i> . 2016/4(10): 13160-2.
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59.	Nambiar RK, Joseph R, Unnikrishnan P, Geetha N. 'Non-Hodgkin's lymphoma of the scalp: a case report' <i>Scholars Journal of Medical Case Reports</i> . 2016/4(6): 430-1.
60.	Nambiar RK, Nair SG, Devi NR. 'Acute myeloid leukemia presenting as galactorrhoea' <i>Proceedings (Baylor University Medical Center)</i> . 2016/29(4): 395.
61.	Nambiar RK, Nair SG, Mathew SP. 'Vertigo and deafness: the sole presenting feature of multiple myeloma' <i>Journal of the Egyptian National Cancer Institute</i> . 2016/29(1): 57-9
62.	Nath SR, Nair R, Sagila SG. 'Characterization and antimicrobial susceptibility pattern of clinical isolates of Enterococci in a tertiary care cancer hospital, Kerala, India' <i>International Journal of Current Microbiology & Applied Science</i> . 2017/6(2): 618-25.
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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		Temporary	Daily wages	Deputation		Consultants engaged	Total
	Existing	New Recruits			In	Out		
Academic	122	1	2	....	....	....	4	129
Non-Academic	711	25	15	74	5	2	....	832
Total	833	26	17	74	5	2	4	961

c. ACADEMIC STAFF STRENGTH

Professors-16, Additional Professors-36, Associate Professors-16, Assistant Professors-48

d. NON-ACADEMIC STAFF

Administrative Office

Anil Kumar V (Sri.) Senior Administrative Officer (till 12.06.2016)
 Ravi C (Sri.) Senior Administrative Officer (13.06.2016 to 01.02.2017)
 Shajeendran Pillai R Senior Administrative Officer (from 23.02.2017)
 Lalitha B (Smt.) Asst. Admin Officer Sr.Gr.
 Jumailathu Beevi KM (Smt.) Office Assistant Sel.Gr.
 Remila C K (Smt.) Office Assistant Sel.Gr.
 Snehalatha H B (Smt.) Office Asst. Sel.Gr.
 Vijayan S (Sri) Office Assistant Sr Gr.
 Kalpana Soni S (Smt.) Office Assistant
 Padmarajan R (Sri.) Typist
 Sajeesh CK (Sri.) Clinical Records Assistant
 Seethalakshmi P S (Smt.) Despatcher
 Balachandran L (Sri.) Senior Helper
 Suliman S (Sri.) Hospital Attender
 Jayasree R (Smt.) Helper

Cancer Epidemiology & Bio-statistics

Asha N M (Smt) Clerk Gr.I
 Prasanth Kumar R K (Sri) Data Entry Operator Gr.I

Cancer Research

Hareendran N K (Sri) Research Assistant Gr. I
 Vikraman Nair K (Sri) Senior Animal House Keeper
 Sreekumaran Nair P (Sri) Driver Sr.Gr.

Clinical Laboratory

Gangadevi C (Smt) Technical Officer (Lab)
 Usha J (Smt) Technical Officer (Lab)
 Helen B (Smt) Technical Officer (Lab)
 Rajesh K R (Sri) Technical Officer (Lab)
 Renuka P (Smt) Technical Officer (Lab)
 Ajaya Kumar R (Sri) Lab. Technician Sr.Gr.
 Jaya Kumar B (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.
 Beena Rani A S (Sri) Lab. Technician
 Anil Kumar R (Sri) Senior Helper
 Gopa Kumar (Sri) Senior Helper

Clinical Services & Medical Records

Chandrika D (Smt)	Medical Records Officer Gr: I
Sreekumar B (Sri)	Asst. Admn. Officer
Ambily O (Smt)	Clerk Gr: I
Anil Kumar K (Sri)	Clerk (MRT) Gr: I
Geetha O (Smt)	Clerk Gr: I
John S (Sri)	Clerk (MRT) Gr: I
Jaya Kumar P (Sri)	Clerk Gr: I
Kumari Bindu P K (Smt)	Clerk Gr: I
Pradeep Kumar B (Sri)	Clerk Gr: I
Siju R. Nair (Smt)	Clerk Sr: Gr.
Sreelatha S (Smt)	Clerk Sr: Gr.
Thankamony Amma P (Smt)	Clerk Gr: I
Nikhil S Baiju (Sri)	Clerk
Pradeep Chandran (Sri.)	Junior System Analyst
Sherly K Ninan (Smt)	Data Entry Operator Gr: I
Girija R (Smt)	Clerk (MRT)
Bindu Sadasivan (Smt)	Clinical Records Assistant
Ajitha S (Smt)	Clinical Records Assistant
Gireesh S (Sri)	Clinical Records Assistant
Liji S (Smt)	Clinical Records Assistant
Kaladevi S (Smt)	Clinical Records Assistant
Savitha VM (Smt)	Clinical Records Assistant
Praveen J Nair	Clinical Records Assistant
Jayalekshmi P (Smt)	Coding Clerk
Nazaruddin S (Sri)	Driver Gr: I
Premachandran Nair S (Sri)	Driver Sr: Gr.
Anil Kumar T.T. (Sri)	Driver
Balachandran B.K (Sri)	Driver
Rajeendran GC (Sri)	Driver
Ajitha Kumari R B (Smt)	Senior Helper
Mariyamma Varghese (Smt)	Senior Helper
Hari C (Sri)	Dark Room Asst. Gr: I

Community Oncology

Sreekumar C (Sri)	Social Investigator Sr:Gr.
Jeena Joseph N (Smt)	Protocol Nurse

Director's Office

Deepa J (Smt)	Secretary to Director
Antony P (Sri)	Despatcher
Louis T C (Sri)	Hospital Assistant

ECDC, Ernakulam

Latha A (Dr)	Cytopathologist
James Thomas M (Sri)	Technical Officer (Cyto)

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 Sr: Gr.
Letha B (Smt)	Typist Gr: I
Senan S (Sri.)	Senior Helper
John Evidus P P (Sri)	Hospital Assistant

ECDC, Palakkad

Rekha SR (Dr)	Resident Medical Officer
Sanil P N (Sri)	Cytotechnologist
Nirmala K C (Smt)	Staff Nurse Gr: I
Abdul Rahiman P M (Sri)	Senior Helper
Thomas Rajasekharan (Sri.)	Hospital Attender

Engineering Wing

Rajendran K 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
Sunil Kumar R (Sri)	Electrician
Deepu S S (Sri)	Electrician
Sivarajan L (Sri)	Electronic Technician Sr:Gr.
Jayanthy J K (Smt)	Data Entry Operator Sr:Gr.
Jayabalan Nair B (Sri)	Plumber Gr: I
Shalin Raj R (Sri)	Plumber
Rajan P C (Sri)	Hospital Attender
Sanjayan S (Sri)	Plumber

Finance & Accounts

Sanjeev R (Sri)	Controller of Finance
Sunil VS (Sri)	Accounts Officer
Sasikumar K (Sri)	Asst. Internal Audit Officer Gr: I
Beena N (Smt)	Asst. Accounts Officer Sr: Gr.
Saraladevi P G (Smt)	Asst. Accounts Officer
Johnson X (Sri)	Cashier Cum Receptionist Sr:Gr.
Sheela Kumari R (Smt)	Cashier Sel:Gr.
Sheena Saju	Cashier
Ajitha O S (Smt)	Office Assistant Sr: Gr.
Veena C L (Smt)	Office Assistant Sr: Gr.
Shajkumar K R (Sri)	Office Assistant Sr: Gr.
John Joseph (Sri)	Office Assistant Gr: I
Sheeja S.S. (Smt)	Office Assistant
Nandakumaran T (Sri)	Office Assistant

Usha V (Smt)
Prabhavathi Devi AK (Smt)
Ambili S (Smt)

Data Entry Operator Sr.Gr.
Clerk Gr. I
Clin Records Asst.

Sibi K S (Smt)
Sunitha S (Smt)
Salini PS (Smt)
Ananda Kumar K (Sri)
Usha R (Smt)

Radiation Technologist
Radiation Technologist
Radiation Technologist
R I A Technician Gr. I
Data Entry Operator Gr.I

Imageology

Asha S (Smt) Radiation Technologist
Binoy B G (Sri) Radiation Technologist
Jayakumar P (Sri) Radiation Technologist
Joe D'cruz A (Sri) Technical Officer (Radiation)
Suja B R (Smt.) Technical Officer (Radiation)
Pradeep S (Sri) Technical Officer (Radiation)
Prasad P P (Sri) Technical Officer
Santhosh Kumar C S (Sri) Hospital Assistant
Sathyalekha S I (Smt) Technical Officer (Radiation)
Shailesh Kumar K N (Sri) Technical Officer (Radiation)
Udayakumar K R (Sri) Technical Officer (Radiation)
Sreelekha L D (Smt) Radiation Technologist
Veena R R (Smt) Radiation Technologist
Vijayakumar C (Sri) Hospital Attender

Information Systems

Neelima N (Smt) Systems Manager
Rajesh P (Sri) System Analyst
Shaji J (Sri) System Analyst
Basil Varghese (Sri) Junior System Analyst
Suseela Devi B (Smt) Data Entry Operator Sr.Gr.

Library & Information Services

Vishnu V (Dr) Librarian cum
Information Officer
Saji S Nair (Dr) Assistant Librarian
Haseena K (Smt) Library Assistant
Rahul LR (Sri) Library Assistant
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
Archana Surendran (Dr) Resident Medical Officer
(Resigned 28.05.2016)

Nuclear Medicine

Sheela V (Smt) Technical Officer (Radiation)
Bindu B (Smt) Technical Officer (RIA)
Minyamma K (Smt) Technical Officer (RIA)
Sindhu P (Smt) Technical Officer (RIA)
Sheeja S R (Smt) Radiation Technologist Sel.Gr.

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
Mariamma James (Smt) Nursing Supervisor
Sally Abraham (Smt) Nursing Supervisor
Prasanna Kumari S (Smt) Head Nurse Sr. Gr.
Rajila Beegum (Smt) Head Nurse Sr. Gr.
Sunitha Kumari R (Smt) Head Nurse Sr. Gr.
Vijayalekshmy Ammal (Smt) Head Nurse Sr. Gr.
Sheela Rodriguez (Smt) Head Nurse Sr. Gr.
Jaya T S (Smt) Head Nurse Gr. I
Jikki M (Smt) Head Nurse Gr. I
Sheeba SV (Smt) Head Nurse Gr. I
Shobha S (Smt) Head Nurse Gr. I
Vijaya A K (Smt) Head Nurse Gr. I
Aniamma Joseph (Smt) Head Nurse Gr. I
Geetha Kumari B S (Smt) Head Nurse Gr. I
Shema C (Smt) Head Nurse
Sindhu S (Smt) Head Nurse
Aleyamma Mathew (Smt) Head Nurse
Bensamma Varghese (Smt) Head Nurse
Sindhu G S (Smt) Head Nurse
Siva Kumari P R (Smt) Head Nurse
Elsamma Joseph (Smt) Head Nurse
Ajitha T L (Smt) Staff Nurse Sr. Gr.
Anila Kumari S (Smt) Staff Nurse Sr. Gr.
Chandrika P (Smt) Staff Nurse Sr. Gr.
Ilin William (Smt) Staff Nurse Sr. Gr.
Indira Devi G (Smt) Staff Nurse Sr. Gr.
Indu V S (Smt) Staff Nurse Sr. Gr.
Indulekha (Smt) Staff Nurse Sr. Gr.
Jessy Thomas (Smt) Staff Nurse Sr. Gr.
Kumari Sindhu S (Smt) Staff Nurse Sr. Gr.
Laly Joseph (Smt) Staff Nurse Sr. Gr.
Mangalam S (Smt) Staff Nurse Sr. Gr.
Marykutty Mathew (Smt) Staff Nurse Sr. Gr.
Ranichandra V (Smt) Staff Nurse Sr. Gr.

Rethidevi G S (Smt)	Staff Nurse Sr. Gr.	Beena K G (Smt)	Staff Nurse
Sajitha S (Smt)	Staff Nurse Sr. Gr.	Bency Varghese (Smt)	Staff Nurse
Saraswathy Amma P (Smt)	Staff Nurse Sr. Gr.	Biji P R (Smt)	Staff Nurse
Sherly M (Smt)	Staff Nurse Sr. Gr.	Bilna Sasi (Smt)	Staff Nurse
Shijikumary N G (Smt)	Staff Nurse Sr. Gr.	Bincy Lukose (Smt)	Staff Nurse
Suma PV (Smt)	Staff Nurse Sr. Gr.	Bindhu K G (Smt)	Staff Nurse
Swapna C R (Smt)	Staff Nurse Sr. Gr.	Bindhu Rani PV (Smt)	Staff Nurse
Abraham Shini (Smt)	Staff Nurse Gr. I	Bindu B (Smt)	Staff Nurse
Ajitha S (Smt)	Staff Nurse Gr. I	Bindu Kumari T C (Smt)	Staff Nurse
Anitha Kumary PV (Smt)	Staff Nurse Gr. I	Bini R (Smt)	Staff Nurse
Aleyamma Chacko (Smt)	Staff Nurse Gr. I	Cherupushpam M (Smt)	Staff Nurse
Bindhu M (Smt)	Staff Nurse Gr. I	Chithra V G (Smt)	Staff Nurse
Bindhu PD (Smt)	Staff Nurse Gr. I	Daisy A (Smt)	Staff Nurse
Bini A (Smt)	Staff Nurse Gr. I	Deepa A S (Smt)	Staff Nurse
Binu O (Smt)	Staff Nurse Gr. I	Deepa R (Smt)	Staff Nurse
Geetha Kumari D (Smt)	Staff Nurse Gr. I	Deepa T P (Smt)	Staff Nurse
Joby Paul (Smt)	Staff Nurse Gr. I	Divya Das S (Smt)	Staff Nurse
Leemol Mathew (Smt)	Staff Nurse Gr. I	Ducakis S (Smt)	Staff Nurse
Jyothilekshmi D (Smt)	Staff Nurse Gr. I	Fathima S (Smt)	Staff Nurse
Moly MT (Smt)	Staff Nurse Gr. I	Fathima Suhra M (Smt)	Staff Nurse
Mareena Silas (Smt)	Staff Nurse Gr. I	Georgia George (Smt)	Staff Nurse
Rosamma Joseph (Smt)	Staff Nurse Gr. I	Gigi Mol Chacko (Smt)	Staff Nurse
Nisha Vidyadhar R (Smt)	Staff Nurse Gr. I	Girija L (Smt)	Staff Nurse
Lizy Varkey (Smt)	Staff Nurse Gr. I	Gracy Sebastian (Smt)	Staff Nurse
Sheeba P (Smt)	Staff Nurse Gr. I	Irshad A P (Sri)	Staff Nurse
Sindhumol M G (Smt)	Staff Nurse Gr. I	Jaichitra MV (Smt)	Staff Nurse
Sophiya Lilly (Smt)	Staff Nurse Gr. I	Jamshad P (Smt)	Staff Nurse
Jainamma Standal (Smt)	Staff Nurse Gr. I	Jasna P K (Smt)	Staff Nurse
Sheeja DB (Smt)	Staff Nurse Gr. I	Jayasree C G (Smt)	Staff Nurse
Sheeja Samuel (Smt)	Staff Nurse Gr. I	Jeeja Rajan (Smt)	Staff Nurse
Sindhu G (Smt)	Staff Nurse Gr. I	Jesna R (Smt)	Staff Nurse
Abdul Jaseer E (Sri)	Staff Nurse	Jijimol S J (Smt)	Staff Nurse
Ajila M S (Smt)	Staff Nurse	Julie Mariam Jacob(Smt)	Staff Nurse
Ajitha S (Smt)	Staff Nurse	Karthika Raj K S (Smt)	Staff Nurse
Amrutha L Raj (Smt)	Staff Nurse	Kavitha S G (Smt)	Staff Nurse
Aneeta J George (Smt)	Staff Nurse	Kochuthresia PV (Smt)	Staff Nurse
Annamma E J (Smt)	Staff Nurse	Kumari Sobha D (Smt)	Staff Nurse
Anupama B (Smt)	Staff Nurse	Ligi Das R S (Smt)	Staff Nurse
Anupama Susmitha (Smt)	Staff Nurse	Lija K (Smt)	Staff Nurse
Aradhana S (Smt)	Staff Nurse	Linsa George (Smt)	Staff Nurse
Archana M Nair (Smt)	Staff Nurse	Manju V P (Smt)	Staff Nurse
Ariya Sreedharan B (Smt)	Staff Nurse	Manjusha G S	Staff Nurse
Aswathy M R (Smt)	Staff Nurse	Manoj G S (Sri)	Staff Nurse
Baijudeen B (Sri)	Staff Nurse	Maya N Nair (Smt)	Staff Nurse

Maya S S (Smt)	Staff Nurse	Shiny George (Smt)	Staff Nurse
Mayadevi L (Smt)	Staff Nurse	Shiny P Thankappan (Smt)	Staff Nurse
Neethu Jacob (Smt)	Staff Nurse	Simmy Panicker S (Smt)	Staff Nurse
Nisha K N (Smt)	Staff Nurse	Sindhu K (Smt)	Staff Nurse
Nisha K Thomas (Smt)	Staff Nurse	Sindhu L (Smt)	Staff Nurse
Niza A Khalam (Smt)	Staff Nurse	Sindhu P 5377 (Smt)	Staff Nurse
Preeja S (Smt)	Staff Nurse	Sindhu P Nair (Smt)	Staff Nurse
Preetha A (Smt)	Staff Nurse	Sindhu R (Smt)	Staff Nurse
Preetha P Nair (Smt)	Staff Nurse	Sindhu V (Smt)	Staff Nurse
Preetha S (Smt)	Staff Nurse	Smitha S Nair (Smt)	Staff Nurse
Preetha Thomas (Smt)	Staff Nurse	Soni John (Smt)	Staff Nurse
Preethi P R (Smt)	Staff Nurse	Sreeja A P (Smt)	Staff Nurse
Priya K L (Smt)	Staff Nurse	Sreeja M S (Smt)	Staff Nurse
Rajani RV (Smt)	Staff Nurse	Sreeja S (5233) (Smt)	Staff Nurse
Rajaram S K (Sri)	Staff Nurse	Sreekala N S (Smt)	Staff Nurse
Rajesh Kumar S (Sri)	Staff Nurse	Sreekala P (Smt)	Staff Nurse
Raji K R (Smt)	Staff Nurse	Sreekala T (Smt)	Staff Nurse
Rani Thomas (Smt)	Staff Nurse	Sreekumaran Pillai V (Sri)	Staff Nurse
Rashid E K (Sri)	Staff Nurse	Sreelatha C S (Smt)	Staff Nurse
Reena A (Smt)	Staff Nurse	Sreelekha S (Smt)	Staff Nurse
Reena P Stanley (Smt)	Staff Nurse	Sukanya Kumari S R (Smt)	Staff Nurse
Rejani Mole A (Smt)	Staff Nurse	Suma V (Smt)	Staff Nurse
Remya R Chandran (Smt)	Staff Nurse	Suma John (Smt)	Staff Nurse
Renjini R S (Smt)	Staff Nurse	Suma K (Smt)	Staff Nurse
Renjini S R (Smt)	Staff Nurse	Suma P S (Smt)	Staff Nurse
Resmi V (Smt)	Staff Nurse	Sumam L (Smt)	Staff Nurse
Roja S Anand (Smt)	Staff Nurse	Sumathy P (Smt)	Staff Nurse
Rugmini M D (Smt)	Staff Nurse	Suni Mathew (Smt)	Staff Nurse
Saji G S (Smt)	Staff Nurse	Sunitha L (Smt)	Staff Nurse
Saloma P S (Smt)	Staff Nurse	Swopna K (Smt)	Staff Nurse
Sandhya G (Smt)	Staff Nurse	Thara S S (Smt)	Staff Nurse
Sandhya V Nair (Smt)	Staff Nurse	Vasanthakumari R (Smt)	Staff Nurse
Sandhyamol K S (Smt)	Staff Nurse	Sithara Balakrishnan	Staff Nurse
Sangeetha K S (Smt)	Staff Nurse	Archana C S (Smt)	Staff Nurse
Saritha S S (Smt)	Staff Nurse	Sahiya V V (Smt)	Staff Nurse
Shabeerali K (Sri)	Staff Nurse	Jafna N (Smt)	Staff Nurse
Sharmi N (Smt)	Staff Nurse	Arathy S R (Smt)	Staff Nurse
Sheeba P Varghese (Smt)	Staff Nurse	Aparna A (Smt)	Staff Nurse
Sheeba V L (Smt)	Staff Nurse	Manju Punnen (Smt)	Staff Nurse
Sheeja BT (Smt)	Staff Nurse	Savitha V (Smt)	Staff Nurse
Sheeja H (Smt)	Staff Nurse	Reshmi V P K (Smt)	Staff Nurse
Sheeja Kumari G (Smt)	Staff Nurse	Neetha Abraham (Smt)	Staff Nurse
Sherry M (Smt)	Staff Nurse	Nirmal G (Sri)	Staff Nurse
Shijitha K S (Smt)	Staff Nurse	Ajith Clement C (Sri)	Staff Nurse

Resmi V R(Smt)	Staff Nurse	Anu Priya VM (Smt)	Staff Nurse
Gayathri Devi K S(Smt)	Staff Nurse	Asha S (Smt)	Staff Nurse
Keerthy M S(Smt)	Staff Nurse	Karthika Thampi (Smt)	Staff Nurse
Lekshmi P Nair(Smt)	Staff Nurse	Divya VJ (Smt)	Staff Nurse
Asha A(Smt)	Staff Nurse	Neethu Sasi (Smt)	Staff Nurse
Harish Nair M(Sri)	Staff Nurse	Susan John (Smt)	Staff Nurse
Manju V M(Smt)	Staff Nurse	Sajitha S (Smt)	Staff Nurse
Divya Pauly(Smt)	Staff Nurse	Pratheeksha R (Smt)	Staff Nurse
Bismi N S(Smt)	Staff Nurse	Sajana K. Badusha (Smt)	Staff Nurse
Likha Prasad(Smt)	Staff Nurse	Diana C (Smt)	Staff Nurse
Rincy Rajan(Smt)	Staff Nurse	Riti Merin Abraham (Smt)	Staff Nurse
Jamsheena E M(Smt)	Staff Nurse	Ansha P. Jyothy (Smt)	Staff Nurse
Aswathy S(Smt)	Staff Nurse	Lekshmi Mohan (Smt)	Staff Nurse
Rosamma PT(Smt)	Staff Nurse	Anu KS (Smt)	Staff Nurse
Ajeesh K(Sri)	Staff Nurse	Preetha B (Smt)	Staff Nurse
Dhanya Krishnan M G(Smt)	Staff Nurse	Sankar MG (Smt)	Staff Nurse
Anju Dominic(Smt)	Staff Nurse	Jinn Joseph (Sri)	Staff Nurse
Soumya T L(Smt)	Staff Nurse	Gireeshkumar S (Sri)	Staff Nurse
Abhilash Michael(Sri)	Staff Nurse	Jayakrishnan J (Sri)	Staff Nurse
Aishwarya P G(Smt)	Staff Nurse	Salini VP (Smt)	Staff Nurse
Vishnu Prasad V S(Sri)	Staff Nurse	Anu K. Avirah (Smt)	Staff Nurse
Devi Prabhu P(Smt)	Staff Nurse	Remya KB (Smt)	Staff Nurse
Arya P(Smt)	Staff Nurse	Lalu Joy (Smt)	Staff Nurse
Biyas S B(Smt)	Staff Nurse	Mini MS (Smt)	Staff Nurse
Joseph Jennings M M(Sri)	Staff Nurse	Jubilet Malar C (Smt)	Nursing Assistant
Binson Baby(Sri)	Staff Nurse	Sreekumari N (Smt)	Nursing Assistant
Sajisha E S(Smt)	Staff Nurse	Kumari Sindhu T S (Smt)	Nursing Assistant
Sandhya Rapheal(Smt)	Staff Nurse	Sheela M (Smt)	Nursing Assistant
Muhammed Anwar V P M(Sri)	Staff Nurse	Mini A K (Smt)	Nursing Assistant
Sivaranjini V M(Smt)	Staff Nurse	Jessy Thomas (Smt)	Nursing Assistant
Reshmi E R(Smt)	Staff Nurse	Varghese Thomas (Sri)	Nursing Assistant
Dhanya A S (Smt)	Staff Nurse	Deenamamma M J (Smt)	Nursing Assistant
Shiyas S R (Sri)	Staff Nurse	Sunila R S (Smt)	Nursing Assistant
Kavitha G S(Smt)	Staff Nurse	Smitha D (Smt)	Nursing Assistant
Mohammad Sajin N(Sri)	Staff Nurse	Ambily T K (Smt)	Nursing Assistant
Alex John(Sri)	Staff Nurse	Kumari Prameela R G (Smt)	Nursing Assistant
Ashwathi J C(Smt)	Staff Nurse	Sheeja Rani G (Smt)	Nursing Assistant
Laiby V Elizabeth(Smt)	Staff Nurse	Usha L (Smt)	Nursing Assistant
Kavitha Mohan L(Smt)	Staff Nurse	Jaya Kumari R (Smt)	Nursing Assistant
Geethu Karun(Smt)	Staff Nurse	Reeja A S (Smt)	Nursing Assistant
Keerthi R Pillai(Smt)	Staff Nurse	Sreekumari M (Smt)	Nursing Assistant
Tania Raj K (Smt)	Staff Nurse	Jessy Xavier (Smt)	Nursing Assistant
Bibin K. Mathew (Sri)	Staff Nurse	Subhadra T K (Smt)	Nursing Assistant
Neelima G (Smt)	Staff Nurse	Hendit Florin S D (Smt)	Nursing Assistant

Beenamma Chacko (Smt)	Nursing Assistant	Minimol S S (Smt)	Nursing Assistant
Mary Helen S (Smt)	Nursing Assistant	Rajan J (Sri)	Helper
Deepthi S S (Smt)	Nursing Assistant	Justin Raj T (Sri)	Helper
Sherly P K (Smt)	Nursing Assistant	Lathakumary K (Smt)	Helper
Rema K (Smt)	Nursing Assistant	Mallika V (Smt)	Helper
Felcy Jesslet A (Smt)	Nursing Assistant	Newton C (Sri)	Helper
Ambika V (Smt)	Nursing Assistant	Raju T (Sri)	Helper
Bigimol Dominic (Smt)	Nursing Assistant	Saju F (Sri)	Helper
Shaija K (Smt)	Nursing Assistant	Sreekanton K (Sri)	Helper
Geetha S (Smt)	Nursing Assistant	Unnikrishnan S (Sri)	Helper
Sneha Latha S (Smt)	Nursing Assistant	Santhakumary A (Smt)	Cleaner
Suja Kuruvilla (Smt)	Nursing Assistant	Ajithakumari N K (Smt)	Cleaner
Laly V J (Smt)	Nursing Assistant	Ambili S (C) (Smt)	Cleaner
Suja V (Smt)	Nursing Assistant	Anila Kumary S (Smt)	Cleaner
Sindhumol V A (Smt)	Nursing Assistant	Anitha Kumary Amma M (Smt)	Cleaner
Sajini John (Smt)	Nursing Assistant	Anitha V (Smt)	Cleaner
Jessy Philipose (Smt)	Nursing Assistant	Baby D (Smt)	Cleaner
Shyni John (Smt)	Nursing Assistant	Chandramathi Amma S (Smt)	Cleaner
Sheeba P K (Smt)	Nursing Assistant	Chandrasekharan Nair M (Sri)	Cleaner
Priya S (Smt)	Nursing Assistant	Durgadevi B (Smt)	Cleaner
Sudha S (Smt)	Nursing Assistant	Ebsiba D (Smt)	Cleaner
Bindu A B (Smt)	Nursing Assistant	Geethakumari K (Smt)	Cleaner
Sithalekshmi V S (Smt)	Nursing Assistant	Girija S (Smt)	Cleaner
Mariamamma Joseph (Smt)	Nursing Assistant	Gopakumar P (Sri)	Cleaner
Geetha P K (Smt)	Nursing Assistant	Jayanthi D (Smt)	Cleaner
Bindhu S (Smt)	Nursing Assistant	Kala Krishnan (Smt)	Cleaner
Sali Varughese (Smt)	Nursing Assistant	Kaladevi B (Smt)	Cleaner
Manju I (Smt)	Nursing Assistant	Radha S (Lathika. S) (Smt)	Cleaner
Babitha Beegam R (Smt)	Nursing Assistant	Lethakumari K (Smt)	Cleaner
Sunitha Devi R R (Smt)	Nursing Assistant	Moly B (Smt)	Cleaner
Ranjini R (Smt)	Nursing Assistant	Pradeep A (Sri)	Cleaner
Manju C (Smt)	Nursing Assistant	Prasanna S (Smt)	Cleaner
Jayasree S (Smt)	Nursing Assistant	Premaletha O T (Smt)	Cleaner
Sheeba L (Smt)	Nursing Assistant	Pushpa T (Smt)	Cleaner
Subha Moly O (Smt)	Nursing Assistant	Pushpakumari P (Smt)	Cleaner
Sujakumari L (Smt)	Nursing Assistant	Radha R (Smt)	Cleaner
Sreelatha S (Smt)	Nursing Assistant	Rajalakshmy R (Smt)	Cleaner
Manjusha V (Smt)	Nursing Assistant	Raheela N (Smt)	Cleaner
Sheeja R (Smt)	Nursing Assistant	Rajeswari L (Smt)	Cleaner
Kala L K Nair (Smt)	Nursing Assistant	Remadevi R (Smt)	Cleaner
Sandhyakrishnan L (Smt)	Nursing Assistant	Remany R (Smt)	Cleaner
Sheeja Raj (Smt)	Nursing Assistant	Retnamma P (Smt)	Cleaner
Sari A S (Smt)	Nursing Assistant	Sarojam D (Smt)	Cleaner
Darley Grace A E (Smt)	Nursing Assistant	Sarojam T (Smt)	Cleaner

Sasikala P (Smt)	Cleaner
Sailaja A (Smt)	Cleaner
Sobhana S (Smt)-2200	Cleaner
Sobhana S(Smt)-2218	Cleaner
Sreelatha P (Smt)	Cleaner
Stalin Bright N (Sri)	Cleaner
Subhashini K (Smt)	Cleaner
Sukumary L (Smt)	Cleaner
Suma L (Smt)	Cleaner
Sunilkumar G (Sri)	Cleaner
Sureshkumar K (Sri)	Cleaner
Sushama G(Smt)	Cleaner
Syamalakumari S (Smt)	Cleaner
Thankamoni M (Smt)	Cleaner
Thanky S (Smt)	Cleaner
Thulasi P (Smt)	Cleaner
Valsala P (Smt)	Cleaner
Valsala T K (Smt)	Cleaner
Vanajakumari P (Smt)	Cleaner
Vijayakumar S (Sri)	Cleaner

Palliative Medicine

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

Pathology

Najeeya S (Smt)	Technical Officer (Lab)
Nataraj A (Sri)	Technical Officer (Lab)
Brinda T P (Smt)	Technical Officer (Lab)
Saina A (Smt)	Technical Officer (Lab)
Sulochana S (Smt)	Technical Officer (Lab)
Veena V S (Smt)	Cytotechnologist Sel.Gr.
Jayalal K S (Sri)	Cytotechnologist Sr.Gr.
Mani K S (Sri)	Cytotechnologist Sr.Gr.
Anitha S (Smt)	Cytotechnologist
Lathamalathy L (Smt)	Lab.Technician Sel.Gr.
Jayasree P S (Smt)	Lab.Technician Sr.Gr.
Jiju J S (Sri)	Lab.Technician Sr.Gr.
Sheena Rani G.S. (Smt)	Typist
Krishnankutty R (Sri)	Senior Helper

Pharmacy & Store

Suresh G (Sri)	Stores Officer
Dinesh P S (Sri)	Pharmacist Gr. I

Shaji SS (Sri)	Pharmacist
Mini KL (Smt)	Pharmacist
Krishnapriya V (Smt)	Pharmacist
Saritha SS (Smt)	Pharmacist
Jalaja Kumari V S (Smt)	Pharmacist
Vimal Kumar Y S (Sri)	Helper

Project Cell

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

Purchase

Sasikumar SV (Sri)	Purchase Officer
Girija Kumari L S (Smt)	Office Assistant Sr. Gr.
Vijayaprasad B (Sri)	Office Assistant
Vindhya Sugathan (Smt)	Office Assistant

Radiation Physics

Ramabhadran P (Sri)	Technical Officer (Radiation)
Anitha C (Smt)	Technical Officer (Radiation)
Radhakrishnan Nair T (Sri)	Technical Officer (Radiation)
Sherif J S (Sri)	Technical Officer (Radiation)
Sreekala R (Smt)	Technical Officer (Radiation)
Sreekala D (Smt)	Technical Officer (Mould)
Geethamma K (Smt)	Technical Officer (Radiation)
Sunil Kumar S (Sri)	Technical Officer (Radiation)
Sheeba D R (Smt)	Technical Officer (Radiation)
Premeela Devi T (Smt)	Technical Officer (Radiation)
Jayasree C G (Smt)	Technical Officer (Radiation)
Ambily Govind K (Smt)	Radiotherapy Technologist Sel.Gr.
Geetha P (Smt)	Radiotherapy Technologist Sel.Gr.
Santhan H (Sri)	Radiotherapy Technologist Sel.Gr.
Viddiul Latha P A (Smt)	Radiotherapy Technologist Sel.Gr.
Maheswari J (Smt)	Radiotherapy Technologist Sr.Gr.
Mini V L (Smt)	Radiotherapy Technologist Sr.Gr.
Rajesh P R (Sri)	Radiotherapy Technologist Sr.Gr.
Sunitha Kumari U P (Smt)	Radiotherapy Technologist Sr.Gr.
Sindhu S S (Smt)	Radiotherapy Technologist Sr.Gr.
Saritha V S (Smt)	Radiotherapy Technologist Sr.Gr.
Abhilash Sudh S S (Sri)	Radiotherapy Technologist
Asa Rani K S (Smt)	Radiotherapy Technologist
Lal K Nair (Sri)	Radiotherapy Technologist
Manju P M (Smt)	Radiotherapy Technologist
Maya M (Smt)	Radiotherapy Technologist
Seena C S (Smt)	Radiotherapy Technologist
Sheena J (Smt)	Radiotherapy Technologist

Shinu R S (Sri) Radiotherapy Technologist
 Vinod S L (Sri) Radiotherapy Technologist
 Santhosh Kumar M S (Sri) Electronic Technician Gr.I

Security

Satheeshkumar K S (Sri) Tel.Operator Cum Recp. Gr: I
 Sreekumar C (Sri) Tel.Operator Cum Recp.
 Sukumaran Nair R (Sri) Security Guard
 Vikraman Chettiar B. (Sri) Security Guard
 Ajithkumar M. (Sri) Security Guard
 Ajikumar S.L. (Sri) Security Guard

Supporting Services

Surendran Nair V (Sri) Public Relations Officer
 Mini N. (Smt) Dietician Gr: I

Surgical Oncology

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
 Jayasree S (Smt) Typist Gr: I
 Viswakumar N (Sri) Typist Gr: I
 Suresh P S (Sri) Senior Helper

Transfusion Medicine

Rajesh R. Chandran (Dr) Resident Medical Officer
 Bindu A P (Smt) Scientific Assistant
 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

Jayaprakash PG (Dr) Professor (31.07.2016)
 Iqbal Ahamed M (Dr) Professor (31.10.2016)
 Ratheesan K (Dr) Professor (31.03.2017)
 Thomas Koilparambil (Dr) Associate Professor
 (30.04.2016)
 Thomas Abraham (Dr) Scientific Officer Gr: I
 (30.04.2016)
 Mohanan Pillai B (Sri) Theatre Technician
 (Anaesthesia) Sr. Gr.
 (31.10.2016)
 Jyothikumar S (Sri) Sergeant (31.05.2016)
 Devaraja Panicker K (Sri) Senior Helper (30.11.2016)

Mariamamma James (Smt) Nursing Supervisor
 (30.09.2016)
 Amrithamma M (Smt.) Hospital Assistant
 (30.11.2016)

Krishnan Kutty A (Sri) Security Guard (30.11.2016)
 Jayachandran Nair P (Sri) Security Guard (30.11.2016)
 Lysal S (Smt) Cleaner (31.05.2016)
 Omana D (Smt) Cleaner (30.04.2016)
 Kumari Sailaja KP (Smt) Cleaner (30.11.2016)

g. Obituary: Nil

Standing Committees

a. Scientific Committee

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

b. Institutional Review Board

1. Dr. Paul Sebastian Chairman
 Director, Regional Cancer Centre
 Thiruvananthapuram.

2. Dr. P.G. Jayaprakash (till 31.07.2016) Member
Prof. & Head, Division of Radiation Oncology
Regional Cancer Centre, Thiruvananthapuram.
3. Dr. K. Ratheesan (from 01.08.2016) Member
Prof. & Head, Division of Radiation Oncology
Regional Cancer Centre, Thiruvananthapuram
4. Dr. K. Ramachandran, Member
Professor & Head, Division of Imageology
Regional Cancer Centre, Thiruvananthapuram.
5. Dr. P. Kusumakumary Member
Additional Director
Regional Cancer Centre, Thiruvananthapuram.
6. Dr. K. Ramadas Member
Medical Superintendent
Regional Cancer Centre, Thiruvananthapuram.
7. Dr. Iqbal Ahamed M (till 31.10.2016) Member
Professor & Head
Division of Surgical Oncology,
Regional Cancer Centre, Thiruvananthapuram.
8. Dr. Shaji Thomas (from 01.11.2016) Member
Additional Professor & Head
Division of Surgical Oncology,
Regional Cancer Centre, Thiruvananthapuram.
9. Dr. K. Jayasree Member
Professor & Head, Division of Pathology
Regional Cancer Centre, Thiruvananthapuram
10. Dr. N. Geetha Member
Professor & Head, Division of Medical Oncology
Regional Cancer Centre, Thiruvananthapuram.
11. Dr. Aleyamma Mathew Member
Professor & Head
Division of Cancer Epidemiology & Biostatistics
Regional Cancer Centre, Thiruvananthapuram
12. Dr. S. Kannan (From 1 September 2015) Member
Professor & Head
Division of Cancer Research
Regional Cancer Centre, Thiruvananthapuram.
13. Dr. Rachel Cherian Koshy Member
Professor & Head, Division of Anaesthesiology,
Regional Cancer Centre, Thiruvananthapuram.
14. Dr. Francis V. James Convener
Professor, Division of Radiation Oncology
Regional Cancer Centre, Thiruvananthapuram.

c. Ethics Committee

1. Dr. M. Narendranathan Chairman
'Sreenilayam', Veerabhadra Gardens
Pottakuzhi, Pattom P.O., Thiruvananthapuram.
2. Dr. M. Radhakrishna Pillai Member
Director, Rajiv Gandhi Centre for Biotechnology
Thiruvananthapuram.
3. Dr. C.C. Kartha Member
Professor of Eminence, Department of Molecular
Medicine, Rajiv Gandhi Centre for Biotechnology
Thiruvananthapuram.
4. Dr. V. Retnavally Member
Prof. of Pharmacology (Rtd.)
'Lekshmi', House No. 59, Vrindavan Housing Colony
Pattom, Thiruvananthapuram.
5. Adv. Krishnankutty Nair Member
'Arathy', T.C. 17/28, JERA 21
Jagathy, Thiruvananthapuram.
6. Smt. Darly Francis Member
'Bethlehem', D7D Moolayil Lane
Sasthamangalam, Thiruvananthapuram
7. Dr. Sanjeev V. Thomas Member
Professor of Neurology
Sree Chitra Tirunal Institute for Science & Technology
Thiruvananthapuram.
8. Dr. Iqbal Ahamed M Member
Professor and Head, Division of Surgical Oncology
Regional Cancer Centre, Thiruvananthapuram
9. Dr. N. Geetha Member
Professor & Head, Division of Medical Oncology
Regional Cancer Centre, Thiruvananthapuram
10. Fr. Shoji Vechoorkarottu Member
Technologist & Social Worker, St. Aloysius Minor
Seminary, Cheshire Home Lane, Kuravankonam,
Kowdiar Post, Thiruvananthapuram-695003
11. Smt. Thankam Gopalakrishnan Member
A51, 'Lekshmi', T.C. 9/2638(1), Elankom Garden,
Vellayambalam, Thiruvananthapuram-695010
12. Dr. Rejnish Kumar R Convener
Addl. Professor of Radiation Oncology
Regional Cancer Centre, Thiruvananthapuram.

d. Building Committee

1. Chief Engineer, PWD
(Buildings & Local Works) Chairman

2. Chief Architect, PWD	Member
3. Director of Medical Education	Member
4. Principal, Medical College, Thiruvananthapuram	Member
5. Director, RCC	Member
6. Controller of Finance, RCC	Member
7. Head, Engineering Division, RCC	Convener

e. Medical Record Review Committee

1. Dr. K. Ramadas (till 30.07.2016) Medical Superintendent	Chairman
2. Dr. Beela Sarah Mathew (from 1.08.2016) Additional Professor, Radiation Oncology	Chairman
3. Dr. K. Ramachandran, Head, Division of Imageology	Member
4. Dr. P.G. Jayaprakash (till 31.07.2016) Head, Division of Radiation Oncology	Member
5. Dr. K. Ratheesan (from 01.08.2016) Head, Division of Radiation Oncology	Member
6. Dr. Aswin Kumar Deputy Medical Superintendent	Member
7. Dr. P. Kusumakumary, Additional Director	Member
8. Dr. Shaji Thomas, Additional Professor & Head	Member
9. Dr. V. M. Pradeep Head, Division of Nuclear Medicine	Member
10. Dr. Geetha N Head, Division of Medical Oncology	Member
11. Dr. Cherian M Koshy Head, Division of Palliative Medicine	Member
12. Dr. R. Rejinish Kumar Additional Professor, Radiation Oncology	Member
13. Mrs. Sreelekha, Chief Nursing Officer	Member
14. Mrs. Chandrika D, Medical Records Officer-1	Member
15. Mr. Anilkumar K, Medical Records Officer-2	Convener

f. Hospital Infection Control Committee

1. Dr. K. Ramadas Medical Superintendent	Chairman
2. Dr. Aswin Kumar Deputy Medical Superintendent	Member

3. Dr. P.G. Jayaprakash (till 31.07.2016) Head, Division of Radiation Oncology	Member
4. Dr. K. Ratheesan (from 01.08.2016) Head, Division of Radiation Oncology	Member
5. Dr. P. Kusumakumary, Additional Director	Member
6. Dr. Rachel Cherian Koshy, Head, Division of Anaesthesiology	Member
7. Dr. Geetha N Head, Division of Medical Oncology	Member
8. Dr. Iqbal M. Ahamed (till 31.10.2016) Head, Division of Surgical Oncology	Member
9. Dr. Shaji Thomas (from 01.11.2016) Head, Division of Surgical Oncology	Member
10. Dr. Binitha R, Infection Control Doctor	Member
11. Dr. Vijayalekshmi K Head, Transfusion Medicine	Member
12. Dr. Swapna R. Nath Head, Division of Microbiology	Member
13. Dr. Raveendran Pillai K Head, Division of Clinical Laboratory Services	Member
14. Mr. Sasikumar, SV, Purchase Officer	Member
15. Mrs. Sreelekha R, Chief Nursing Officer	Member
16. Mr. Giri Purushothaman Head, Engineering Division	Member
17. Mr. R. Sanjeev, Controller of Finance	Member
18. Mrs. Geetha Kumari B S Head Nurse, Operation Theatre	Member
19. Mrs. Sally Abraham Nursing Supervisor; i/c Laundry	Member
20. Mrs. Sunithakumari Head Nurse, CVAD Clinic	Member
21. Mrs. Mariamma James Nursing Supervisor; i/c Housekeeping	Member
22. Mrs. Mini, Dietician	Member
23. Ms. Shyma K. Babu, Biomedical Engineer	Member
24. Mrs. Bindhu Rani, Infection Control Nurse	Member
25. Mrs. Rajani R V, NABH Co-ordinator	Member
26. Mrs. Sheela Rodriguez Nursing Supervisor	Convener

g. Internal Audit Committee

1. Dr. Paul Augustine, Additional Professor;

	Division of Surgical Oncology	Chairman	20 Mr. Prasad P P, Technical Officer	Member
2	Dr. K. Ramadas, Medical Superintendent	Member	21 Mrs. Sini L S, Lab Technician	Member
3	Dr. Beela Sarah Mathew, Additional Professor, Radiation Oncology	Member	22 Ms. Bindu Rani PV, Infection Control Nurse	Member
4	Dr. Priyakumary, Addl Professor, Paediatric Oncology	Member	23 Ms. Mini N, Dietician	Member
5	Dr. Cherian M. Koshy Head, Division of Palliative Medicine	Member	24 Ms. Shyma Babu, Biomedical engineer	Member
6	Dr. Anila K R, Associate Professor, Division of Pathology	Member	25 Ms. Sivakumari, Head Nurse	Member
7	Dr. Arun Peter Mathew, Associate Professor, Division of Surgical Oncology	Member	26 Dr. Aswin Kumar, Deputy Medical Superintendent	Convener
8	Dr. Madhu Muralee, Associate Professor, Division of Surgical Oncology	Member	h. Quality Improvement Committee	
9	Dr. Roshni S, Associate Professor, Division of Radiation Oncology	Member	1 Dr. Paul Sebastian, Director	Chairman
10	Dr. Saju B, Associate Professor, Division of Radiation Physics	Member	2 Dr. Kusumakumary P, Head, Division of Paediatric Oncology	Member
11	Dr. Sudha P, Associate Professor, Division of Anaesthesiology	Member	3 Dr. P. G. JayaPrakash (till 31.07.2016) Head, Division of Radiation Oncology	Member
12	Dr. Sumod Mathew Koshy, Associate Professor, Division of Imageology	Member	4 Dr. K. Ratheesan (from 01.08.2016) Head, Division of Radiation Oncology	Member
13	Dr. Swapna R. Nath, Head, Division of Microbiology	Member	5 Dr. Geetha N, Head, Division of Medical Oncology	Member
14	Dr. Rajeev K R, Assistant Professor, Division of Radiation Oncology	Member	6 Dr. Iqbal M. Ahamed (till 31.10.2016) Head, Division of Surgical Oncology	Member
15	Dr. Arun Sankar, Assistant Professor, Division of Radiation Oncology	Member	7 Dr. Shaji Thomas (from 01.11.2016) Head, Division of Surgical Oncology	Member
16	Dr. Malu Rafi, Assistant Professor, Division of Radiation Oncology	Member	8 Dr. Rachel Cherian Koshy, Head, Division of Anaesthesiology	Member
17	Mrs. Lalitha B, Assistant Administrative Officer	Member	9 Dr. Ramachandran K, Head, Division of Imageology	Member
18	Mrs. Chandrika D, Medical Records Officer- I	Member	10 Dr. Pradeep V M, Head, Division of Nuclear Medicine	Member
19	Ms. Sreelekha R, Chief Nursing Officer	Member	11 Dr. Ramani Wesley, Head, Division of Community Oncology	Member
			12 Dr. Jayasree K, Head, Division of Pathology	Member
			13 Dr. Cherian M. Koshy, Head, Division of Palliative Medicine	Member
			14 Dr. Vijayalakshmi K, Head, Division of Transfusion Medicine	Member
			15 Dr. Swapna R. Nath, Head, Division of Microbiology	Member
			16 Dr. Raghuram K. Nair, Head, Division of Radiation Physics	Member
			17 Dr. Aleyamma Mathew, Division of Cancer Epidemiology & Biostatistics	Member

18	Dr. Aswin Kumar, i/c Pharmacy	Member
19	Dr. Raveendran Pillai K, Head, Division of Clinical Laboratory Services	Member
20	Mrs. Sreelekha R, Chief Nursing Officer	Member
21	Mr. Giri Purushothaman, Head, Engineering Division	Member
22	Mr. Surendran Nair V, Public Relation Officer	Member
23	Mrs. Lalitha B, Assistant Administrative Officer	Member
24	Mrs. Chandrika D, Medical Records Officer-I	Member
25	Mr. Sreekumar B, Assistant Administrative Officer (CS)	Member
26	Mrs. Lizyamma Jacob, Nursing Supervisor	Member
27	Mrs. Mini N, Dietician	Member
28	Dr. K. Ramadas, Medical Supdt or Dr. Aswin Kumar, Deputy Medical Supdt	Convener

i. Drug Committee

1	Dr. K. Ramadas, Medical Superintendent	Chairman
2	Dr. Kusumakumary P Head, Division of Paediatric Oncology	Member
3	Dr. P. G. JayaPrakash (till 31.07.2016) Head, Division of Radiation Oncology	Member
4	Dr. K. Ratheesan (from 01.08.2016) Head, Division of Radiation Oncology	Member
5	Dr. Francis V. James, Professor of Radiation Oncology	Member
6	Dr. Aswinkumar, Deputy Medical Supt	Member
7	Dr. Sivanandan C D, Additional Professor of Radiation Oncology	Member
8	Dr. R. Rejnishkumar, Additional Professor of Radiation Oncology	Member
9	Dr. Iqbal M. Ahamed (till 31.10.2016) Head, Division of Surgical Oncology	Member
10	Dr. Shaji Thomas (from 01.11.2016) Head, Division of Surgical Oncology	Member
11	Dr. Rachel Cherian Koshy, Head, Division of Anaesthesiology	Member
12	Dr. Geetha N, Head, Division of Medical Oncology	Member
13	Dr. Cherian M. Koshy, Head, Division of Palliative Medicine	Member

14	Mr. Suresh G, Central Stores Officer	Member
15	Mr. Sanjeev R, Controller of Finance	Member
16	Mr. S.V. Sasikumar, Purchase Officer	Convener

j. Hospital Transfusion Committee

1	Dr. K. Ramadas, Medical Superintendent	Chairman
2	Dr. Kusumakumary P, Head, Division of Paediatric Oncology	Member
3	Dr. Iqbal M. Ahamed (till 31.10.2016) Head, Division of Surgical Oncology	Member
4	Dr. Shaji Thomas (from 01.11.2016) Head, Division of Surgical Oncology	Member
5	Dr. Rachel Cherian Koshy, Head, Division of Anaesthesiology	Member
6	Dr. Geetha N, Head, Division of Medical Oncology	Member
7	Dr. Cherian M. Koshy, Head, Division of Palliative Medicine	Member
8	Mrs. Sreelekha R, Chief Nursing Officer	Member
9	Ms. Bindu, Scientific Officer, Transfusion Medicine	Member
10	Dr. K. Vijayalakshmi, Head, Division of Transfusion Medicine	Convener

k. Hospital Safety Committee

1	Dr. Paul Sebastian, Director	Chairman
2	Dr. Geetha N, Head, Division of Medical Oncology	Member
3	Dr. Aswinkumar, Deputy Medical Superintendent	Member
4	Dr. Raghuram K. Nair, Head, Division of Radiation Physics	Member
5	Dr. Prasanth CV, Resident Medical Officer	Member
6	Dr. Saju B, Associate Professor, Radiation Physics	Member
7	Mr. Giri Purushothaman, Head, Engineering Division	Member
8	Mrs. Sheela Rodriguez, Infection Control Convener	Member
9	Mrs. Sreelekha R, Chief Nursing Officer	Member
10	Mrs. Flower Augustine, Nursing Superintendent	Member
11	Mrs. Mini N, Dietitian	Member
12	Mr. V. B. Remesh Kumar, Security Officer	Member
13	Dr. K. Ramadas, Medical Superintendent	Convener

I. Mortality/Morbidity Review Committee [M & M R]

1	Dr. K. Ramadas, Medical Superintendent	Convener
2	Dr. Geetha N, Head, Division of Medical Oncology	Member
3	Dr. Priyakumary T, Additional Professor, Paediatric Oncology	Member
4	Dr. Mary Thomas, Additional Professor, Anaesthesiology	Member
5	Dr. Rema P, Associate Professor, Surgical Oncology	Member
6	Dr. Bipin T. Varghese, Additional Professor, Surgical Oncology	Member
7	Dr. Asha Arjunan, Associate Professor, Radiation Oncology	Member
8	Dr. Roshni Syam, Associate Professor, Radiation Oncology	Member
9	Dr. Lali V S, RMO, Medical Oncology	Member
10	Dr. Aswinkumar, Deputy Medical Superintendent	Convener

m. Code Blue Committee

1	Dr. K. Ramadas, Medical Superintendent	Convener
2	Dr. Rachel Cherian Koshy, Head, Division of Anaesthesiology	Member
3	Dr. Viji S. Pillai, Associate Professor, Anaesthesiology	Member
4	Dr. Bhagyalakshmi, Associate Professor, Anaesthesiology	Member
5	Mrs Sreelekha R, Chief Nursing Officer	Member
6	Mrs. Vijaya A K, Head Nurse	Member
7	Mr. Manoj, Staff Nurse	Member
8	Dr. Aswinkumar, Deputy Medical Superintendent	Convener

n. Library Committee

1.	Dr. Paul Sebastian, Director	Chairman
2.	Dr. P. Kusumakumary, Additional Director	Member
3.	Dr. K. Ramadas, Medical Superintendent	Member
4.	Sri. R. Sanjeev, Controller of Finance	Member
5.	Dr. K. Ramachandran, HOD, Imageology Division	Member
6.	Dr. K. Jayasree, HOD, Pathology Division	Member

7. Dr. V. Vishnu, Librarian cum
Information Officer Convener

Right To Information Act

a. Public Information Officers

1. Sri. V.S. Sunil, Accounts Officer
2. Smt. Lalitha B, Assistant Administrative Officer Sr. Gr.
3. Smt. Chandrika D., Medical Records Officer
4. Smt. N. Neelima, Systems Manager

b. Assistant Public Information Officers

- Smt. Jumailathu Beevi KM, Office Assistant Sel. Gr.
Sri. S.V. Sasikumar, Purchase Officer
Smt. N. Beena, Assistant Accounts Officer Sr. Gr.
Sri. V. Surendran Nair, Public Relations Officer Sr. Gr.

c. Appellate Authority

Dr. K Ramadas, Medical Superintendent

d. Number of Applications

Received	: 106
Disposed	: 111
Pending	: 03

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

- i. Grievance redressal mechanism: Committee for redressal of complaints of sexual harassment against female employees.
- ii. Official Language Act : Implemented
- iii. Computerisation : Completed

ACCOUNTS
2016-2017

REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM (Reg. No. 567/81)
BALANCE SHEET AS ON 31st MARCH 2017

Schedule	Liabilities	Current Year (Rs.)	Previous Year (Rs.)	Schedule	Assets	Current Year (Rs.)	Previous Year (Rs.)
I	CAPITAL FUND	2,44,62,63,809.97	2,25,01,60,872.17	VI	FIXED ASSETS	2,49,19,38,649.56	2,22,93,69,455.76
II	SPECIFIC FUNDS	30,97,70,884.95	45,54,23,130.65				
	GRANT FOR STATE CANCER INSTITUTE	31,31,00,000.00	-	VII	INVESTMENTS	76,77,90,813.00	77,02,45,879.00
	GRANT FROM GOVT. OF INDIA	-	2,03,85,428.00				
	GRANT FROM GOVT. OF KERALA	46,33,57,059.20	35,76,43,020.00		<u>CURRENT ASSETS AND LOANS</u>		
	CCL FUND	20,93,78,200.00	20,87,17,861.00		<u>AND ADVANCES</u>		
III	RADIO THERAPY RESEARCH FUND	7,25,621.00	7,25,621.00	VIII	CLOSING STOCK	11,67,65,222.00	16,45,72,670.11
				IX	ADVANCES - OTHERS & OTHER C/A	5,98,83,088.51	4,51,97,013.40
	<u>CURRENT LIABILITIES AND PROVISIONS</u>			X	INVESTIGATION FEES RECEIVABLE	1,27,15,87,124.48	85,32,62,085.14
IV	CURRENT LIABILITIES - OTHERS	1,84,68,76,895.27	1,11,73,24,221.30	XI	BALANCE WITH BANKS	1,79,48,74,314.72	1,23,76,81,132.46
	PROVISION FOR GRATUITY	1,72,70,969.00	3,19,41,718.00				
V	CREDITORS FOR GOODS SUPPLIED	12,02,37,806.35	23,03,83,121.25	XII	CASH IN HAND	10,73,994.23	7,17,123.98
VI	PROVISION FOR DEPRECIATION	1,34,32,79,736.90	1,16,23,13,963.64	XIII	INCOME & EXPENDITURE A/C	56,63,47,776.14	53,39,73,597.16
	TOTAL	7,07,02,60,982.64	5,83,50,18,957.01		TOTAL	7,07,02,60,982.64	5,83,50,18,957.01
XV	SIGNIFICANT ACCOUNTING POLICIES						
XVI	NOTES ON ACCOUNTS						

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

Trivandrum 22/02/2019	Dr: Rekha A Nair (Director)	S Suresh Kumar (Controller of Finance)	For Rathnam & Murthy Chartered Accountants FRN:0031705
		CA. M. Sathesh Kumar, FCA, DISA (ICAI) Partner	Membership Number: 207847

REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM (Reg.No. 567/81) INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2017

Schedule	Expenditure	Current Year (Rs.)	Previous Year (Rs.)	Schedule	Income	Current Year (Rs.)	Previous Year (Rs.)
	Opening Stock	16,45,72,670.11	9,54,37,194.94		Grant-in-aid: Govt. of Kerala	50,99,62,000.00	45,29,74,000.00
A	Purchases Medicines, Chemicals etc.	61,64,85,346.00	69,81,60,229.00		Less:- Pension Fund paid	12,00,00,000.00	
B	Salaries and Allowances	77,01,27,647.00	65,46,52,385.60			38,99,62,000.00	
	Uniform and Livenies	6,58,894.00	10,87,123.00		Investigation Fees	65,39,65,635.63	53,78,35,073.70
C	Rent, Rates & Taxes	28,07,183.43	15,01,736.73		Medicine Receipts	60,96,35,109.42	58,76,17,867.20
D	Postage, Telephone & Telegram	7,64,105.00	5,27,681.50		Interest Income	2,47,90,388.09	1,98,06,742.00
E	Travelling Expenses	3,18,948.00	2,45,109.00	K	Training Fees	2,58,36,406.00	2,46,76,475.00
	Printing & Stationary	23,35,247.00	21,98,066.00	L	Miscellaneous Income	54,79,959.33	1,15,15,562.79
	Advertisement Charges	27,73,249.00	11,06,192.00		Closing Stock	11,67,65,222.00	16,45,72,670.11
					Excess of Expenditure over		
F	Electricity and Water Charges	3,94,17,141.00	3,66,94,313.00		Income	3,13,01,604.98	-
G	Repairs & Maintenance	2,43,68,879.03	3,25,12,963.50				
H	Service Contract Charges	2,69,02,074.62	3,26,28,082.30				
	Statutory Audit Fees	1,75,820.00	1,75,000.00				
I	Computer Expenses	7,43,931.00	10,72,444.00				
	Books & Periodicals	12,355.00	16,450.00				
	Expenses to NTR	46,40,997.00	52,46,840.00				
J	Miscellaneous Expenses	1,54,52,283.00	86,95,055.88				
	Matress, Linen, Laundry and other						
	Housekeeping Expenses	42,13,782.00					
	Depreciation	18,09,65,773.26	13,19,88,756.52				
	Excess of Income over						
	Expenditure	-	9,50,52,767.83				
	TOTAL	1,85,77,36,325.45	1,79,89,98,390.80		TOTAL	1,85,77,36,325.45	1,79,89,98,390.80

Schedules A to L, Vllland XIII form an integral part of this Statement.

Trivandrum
22/02/2019

Dr. Rekha A Nair
(Director)

S. Suresh Kumar
(Controller of Finance)

For Rathnam & Murthy
Chartered Accountants
FRNI0031705

CA. M. Satheesh Kumar, FCA, DISA (ICAI)
Partner
Membership Number: 207847

**REGIONAL CANCER CENTRE SOCIETY,TRIVANDRUM (Reg. No. 567/81)
SCHEDULE -VI**

ITEM	Original Cost 01/04/2016	Gross Block		DEPRECIATION		NET BLOCK			
		Additions	Deduction	Cost on 31.3.2017	Up to 31.3.2016	Additions	Total upto 31.3.2017	As on 31.3.2017	As on 31.3.2016
LAND	1,000.00	-	-	1,000.00	-	-	-	1,000.00	1,000.00
BUILDINGS	25,68,89,489.57	30,40,90,118.00	-	56,09,79,607.57	13,84,81,387.68	4,22,49,821.99	18,07,31,209.67	38,02,48,397.90	11,84,08,101.89
CIVIL WORKS	3,09,1,40.63	-	-	3,09,1,40.63	1,69,666.72	13,947.39	1,83,614.11	1,25,526.52	1,39,473.91
COBALT UNIT	1,81,23,455.30	-	-	1,81,23,455.30	1,65,50,697.80	2,35,913.62	1,67,86,611.43	1,33,68,438.7	15,72,757.50
WATER SUPPLY AND DRAINAGE	65,63,373.43	-	-	65,63,373.43	46,81,777.48	2,82,239.39	49,64,016.87	1,59,935,656	1,88,15,959.6
FURNITURE AND FITTINGS	3,15,99,828.48	37,52,582.00	-	3,53,52,410.48	1,70,13,105.39	15,88,669.81	1,86,01,775.20	1,67,50,635.28	1,45,86,723.09
OFFICE EQUIPMENTS	27,25,526.43	10,74,391.00	-	37,99,917.43	25,39,904.34	1,89,001.96	27,28,906.30	10,71,011.13	1,85,622.09
HOSPITAL & LAB. EQUIPMENTS	1,12,84,32,930.97	20,12,31,466.00	-	1,32,96,64,396.97	67,48,80,047.08	9,85,85,543.53	77,34,65,590.61	55,61,98,806.36	45,35,52,883.89
ELECTRICAL INSTALLATION	8,50,08,158.90	2,38,58,929.00	-	10,88,67,087.90	5,64,02,325.34	78,69,714.38	6,42,72,039.72	4,45,95,048.18	2,86,05,833.56
FIRE DETECTION	46,28,400.00	1,05,81,979.00	-	1,52,10,379.00	41,90,710.26	16,52,950.31	58,43,660.57	93,66,718.43	4,37,689.74
AIR CONDITIONING	4,78,85,880.35	2,69,83,304.00	-	7,48,69,184.35	3,14,72,926.50	65,09,438.68	3,79,82,365.18	3,68,86,819.17	1,64,12,953.85
COMPUTER HARDWARE AND SOFTWARE	5,59,50,253.00	-	1,13,140.20	5,58,37,112.80	4,80,63,066.54	46,64,427.76	5,27,27,494.30	31,09,618.50	78,87,186.46
GAS AND CYLINDER	1,03,84,532.05	-	-	1,03,84,532.05	80,06,562.33	3,56,695.46	83,63,257.79	20,21,274.26	23,77,969.72
VEHICLES	49,23,171.60	18,30,760.00	-	67,53,931.60	22,68,879.89	6,72,757.76	29,41,637.65	38,12,293.95	26,54,291.71
LIBRARY BOOKS AND JOURNALS	7,81,03,603.65	1,02,59,684.00	-	8,83,63,287.65	4,55,57,958.40	64,20,799.39	5,19,78,757.79	3,63,84,529.86	3,25,45,645.25
LIFT AND ELEVATOR	2,71,05,560.00	-	-	2,71,05,560.00	1,10,52,906.05	24,07,898.09	1,34,60,804.14	1,36,44,755.86	1,60,52,653.95
ASSETS (DONATIONS)	3,70,112.00	-	-	3,70,112.00	3,48,061.07	3,307.64	3,51,368.71	18,743.29	22,050.93
TELEPHONE EQUIPMENTS	60,62,197.00	2,28,137.00	-	62,90,334.00	44,45,535.00	2,76,719.85	47,22,254.85	15,68,079.15	16,16,662.01
HIGH ENERGY LINEAR ACCELERATOR	5,29,87,763.00	-	-	5,29,87,763.00	4,54,50,690.40	11,30,560.89	4,65,81,251.29	64,06,511.71	75,37,072.60
ASSETS-TELEMEDICINES PROJECT	77,18,623.00	-	-	77,18,623.00	67,55,569.49	1,44,458.03	69,00,027.52	8,18,595.48	9,63,053.51
HOSPITAL EQUIPMENTS & OTHER ASSETS (PROJECT)	7,10,21,863.00	9,31,549.00	-	7,19,53,412.00	4,12,07,178.60	46,11,935.01	4,58,19,113.61	2,61,34,298.39	2,98,14,684.40
LOW ENERGY LINEAR ACCELERATOR	36,11,489.40	-	-	36,11,489.40	27,75,007.27	1,25,472.32	29,00,479.59	7,11,009.81	8,36,482.13
SOLAR POWER GENERATION SYSTEM	-	64,90,000.00	-	64,90,000.00	-	9,73,500.00	9,73,500.00	55,16,500.00	-
CAPITAL WORK IN PROGRESS	32,89,63,104.00	-	32,86,30,565.00	3,32,539.00	-	-	-	3,32,539.00	32,89,63,104.00
TOTAL	2,22,93,69,455.76	59,13,12,899.00	2,49,19,38,649.56	1,16,23,13,963.64	18,09,65,773.26	1,34,32,79,736.90	1,06,70,55,492.13		

Trivandrum
22/02/2019

Dr.Rekha A Nair
(Director)

S.Suresh Kumar
(Controller of Finance)

For Rathnam & Murthy
Chartered Accountants
FRN:0031705

CA. M.Satheesh Kumar; FCA, DISA (ICAI)
Partner
Membership Number:207847

REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM
(Reg. no. 567/81)
CANCER CARE FOR LIFE SCHEME
INCOME AND EXPENDITURE ACCOUNT FOR
THE YEAR ENDED 31st MARCH 2017

Expenditure	Current Year (Rs.)	Previous Year (Rs.)	Income	Current Year (Rs.)	Previous Year (Rs.)
Reimbursement to Patients	1,41,32,313.00	1,34,00,739.16	Interest on FD & Investments	1,30,59,739.00	1,67,29,167.00
			Excess of Expenditure over Income	10,72,574.00	
Transfer to CCL Membership Fee A/c		4,45,081.50			
Excess of Income over expenditure		28,83,346.34			
TOTAL	1,41,32,313.00	1,67,29,167.00	TOTAL	1,41,32,313.00	1,67,29,167.00

Trivandrum
22/02/2019

Dr. Rekha A. Nair
(Director)

S.Suresh Kumar
(Controller of Finance)

For Rathnam & Murthy
Chartered Accountants
FRN: 0031705

CA. M.Satheesh Kumar; FCA, DISA (ICAI)
Partner
Membership Number:207847

INDEPENDENT AUDITOR'S REPORT

To,
The Members of Regional Cancer Centre Society,
Thiruvananthapuram

We have audited the accompanying financial statements of **REGIONAL CANCER CENTRE SOCIETY, Thiruvananthapuram** which comprises the Balance sheet as at March 31, 2017 and the Statement of Income and Expenditure Account for the year then ended, and a summary of significant accounting policies and other explanatory information.

Management's responsibility for the financial statements

The Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position, financial performance in accordance with the accounting principles generally accepted in India to the extent applicable to the society. This responsibility also includes design, implementation and maintenance of internal control relevant to the preparation and fair presentation of the financial statements and is free from material misstatement, whether due to fraud or error.

Auditors' responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the standards on auditing issued by the Institute of Chartered Accountants of India to the extent applicable to the society. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and the disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Society's preparation and fair presentation of the financial statements that give a true and fair view in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of the accounting policies used and the reasonableness of the accounting estimates made by the Management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion on the financial statements.

Qualified Opinion

In our opinion, and to the best of our information and according to the explanations given to us, **except for the possible effects of the matter described in the Basis of Qualified Opinion Paragraph (Details in Annexure 1)** below, the financial statements together with the accounting policies and explanatory information given in the notes thereon give the information required for the society, in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India as applicable to the society:

In case of Balance Sheet, of the state of affairs of the Society as at 31st March 2017, and
In case of Income And Expenditure Account of the loss for the year ended on that date.

Basis for Qualified Opinion

As explained in Annexure 1, the society has not obtained confirmations as at the year end on 31.03.2017 for the investigation fee receivable and creditors for goods supplied balances as well as the respective aging statements, non-reconciliation of credit patients control account, pending payments (Patients) and Advance from Patients account, irregularities observed in updating the reports generated in Hospital Information System to the Office Financial Accounting Software (OFA), non-maintenance of fixed assets Register and inconsistencies with accounting standards with regard to accounting of fixed assets.

Emphasis of Matter

We draw attention to Note 1 in Notes on Accounts regarding accounting of Government Grant for acquisition of fixed assets and Note 5 on unutilized amount of grants from the State and Central Government by the society and our opinion is not qualified in respect of these matters.

Place: Trivandrum
Date: 22/02/2019

For Rathnam & Murthy,
Chartered Accountants
FRN: 0031705

CA. M.Satheesh Kumar, FCA, DISA (ICAI)
Partner
Membership Number: 207847

SCHEDULE – XV

SIGNIFICANT ACCOUNTING POLICIES

1. ACCOUNTING ASSUMPTIONS

The accounts have been prepared under the historic cost convention and on the basis of going concern concept, with revenues recognised and expenses accounted on their accrual (expected income from investments, treatment expenditure in respect of patients, which are accounted only at the settlement of bills and leave surrender salary which are accounted as and when paid, hostel rent in respect of PG doctors) including provisions / 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 clause no.1 above

3. INVENTORIES

Inventories are valued at cost or net realizable value whichever is lower. Cost includes freight and other related incidental expenses and is computed in 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 present 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 as mentioned as per the Fixed Assets Schedule attached. 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 government, both Central and State under the plan fund, to the extent of the value of additions to 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 respective Government Account. Grant in Aid received as non-plan funds 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.

7. CAPITAL FUND

Capital Fund Account balance includes the fund balance at the beginning of the year; capital Grant to the extent used for acquisition / construction of fixed assets, the value of assets received from the projects at free of cost and the value of assets received as donations.

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 the 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 project are credited to capital fund account as the Society received these assets as free of costs.

10. RETIREMENT BENEFITS

The liability on account of employee terminal benefits 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 the Life Insurance Corporation of India. The premiums paid to the scheme is treated as revenue expenditure and disclosed in the Income and Expenditure Account.

Trivandrum
22/02/2019

Dr:Rekha A Nair
(Director)

S.Suresh Kumar
(Controller of Finance)

As per my report of even date attached

For Rathnam & Murthy
Chartered Accountants
FRN:0031705

CA. M.Satheesh Kumar, FCA, DISA (ICAI)
Partner
Membership Number:207847

SCHEDULE – XVI NOTES ON ACCOUNTS

1. Had the organization followed the Accounting Standards (AS 12) regarding Government Grant issued by the ICAI and reduced the grant utilized for acquisition of fixed assets from the gross value of such assets, the depreciation debited to Income & Expenditure Account for the year would have been reduced by the quantum of depreciation relating to the value of specific assets acquired out of Grant-in –Aid and there would have been consequent reduction in the deficit for the year. As the organization, has been following the accounting practice, as mentioned under clause No.6 of the Significant Accounting Policies, for previous year also, the impact of the above deviation from the standard in the current year's deficit could not be quantified precisely.
2. Investigation fees include income from registration fees, ward charges, nuclear medicine, radiotherapy, surgery and lab.
3. There is deficit/surplus during the year, according to the society, which is not chargeable to income-tax, as the society has obtained registration under Section 12AA of the Income Taxes Act 1961.
4. Contingent liability towards property tax and interest thereon is amounting to Rs 1,01,67,369/- Non-refund of Grant –in –Aid is contingent upon the fulfilment of all the conditions attached to such assistance.
5. The balance in Grant in Aid from Government of Kerala account, includes grant received under Plan Fund of Rs 46,33,57,059.20 and similarly Grant –in –Aid from Government of India of Rs.NIL/- represent the unutilized amount of Grant received under Plan from the Central Government
6. Figures for the previous year have been regrouped and recast wherever necessary to suit the current year lay-out.

Trivandrum
22/02/2019

Dr.Rekha A Nair
(Director)

S.Suresh Kumar
(Controller of Finance)

As per my report of even date attached

For Rathnam & Murthy
Chartered Accountants
FRN:003170S

CA. M.Satheesh Kumar, FCA, DISA (ICAI)
Partner
Membership Number:207847

TO WHOMSOEVER IT MAY CONCERN

1. During the year 2016-17 The Regional Cancer Centre Society, Thiruvananthapuram has received Rs. 1858.00 Lakhs under the head of account 2210-05-105-52-36 (NP) Grant in Aid-Non Salary and Rs. 3241.62 Lakhs under the head of account 2210-05-105-52-31 (NP) Grant in Aid-Salary 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-2210-05-105-52-36 (NP)- Grant in Aid-Non Salary	
1	G.O(Rt) No. 1345/2016/H&FWD dated 07/05/2016	310.00
2	G.O(Rt) No. 1731/2016/H&FWD dated 23/06/2016	310.00
3	G.O(Rt) No. 2201/2016/H&FWD dated 09/03/2016	310.00
4	G.O(Rt) No. 2989/2016/H&FWD dated 04/11/2016	310.00
5	G.O(Rt) No. 187/2017/H&FWD dated 25/01/2017	310.00
6	G.O(Rt) No. 691/2017/H&FWD dated 16/03/2017	308.00
	Total	1,858.00
B	Head of Accounts-2210-05-105-31 (NP)-Grant in Aid -Salary	
1	G.O(Rt) No. 1345/2016/H&FWD dated 07/05/2016	540.00
2	G.O(Rt) No. 1731/2016/H&FWD dated 23/06/2016	540.00
3	G.O(Rt) No. 2201/2016/H&FWD dated 09/03/2016	540.00
4	G.O(Rt) No. 2989/2016/H&FWD dated 04/11/2016	540.00
5	G.O(Rt) No. 187/2017/H&FWD dated 25/01/2017	540.00
6	G.O(Rt) No. 691/2017/H&FWD dated 16/03/2017	541.62
	Total	3,241.62
	Grand Total (A+B)	5,099.62

2. The amount was used during the year 2016-17 for the following purposes:

Sl. No.	Purpose	Amount (Rs. in lakhs)
1	Pension fund Paid	1,200.00
2	Operational expenditure including salary	3,899.62
	Total	5,099.62

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

Trivandrum
22-02-2019

For Rathnam & Murthy
Chartered Accountants
FRN: 003170S

CA. M.Satheesh Kumar; FCA, DISA (ICAI)
Partner
Membership Number:207847

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 2017 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 2016-2017 was Rs.4,93,36,182.76
2. Foreign Contribution worth Rs.2,04,89,553.21 was received by the Association during the year ended 31st March 2017.
3. The balance in foreign contribution account together with interest earned thereon at the end of the financial year 2016-2017 was Rs.5,57,92,801.04.
4. Certified that the Association has maintained the accounts of foreign contribution and records relating thereto in the manner specified in section 19 of the foreign contribution (Regulation) Act, 2010(42 of 2010) read with rule 16 of the foreign contribution (Regulation) Rules, 2011.
5. The information furnished above and in the Balance Sheet and statement of receipts and payments are correct as checked by me.

Trivandrum
19 October 2017

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 2017

LIABILITIES	Amt (Rs Ps.)	Amt (Rs. Ps.)	ASSETS	Amt (Rs. Ps.)	Amt (Rs. Ps.)
RESEARCH FUND (Sch. 1)		3,43,35,757.49			
FC PROJECT FUND (Sch. 2)		2,14,57,043.55	INVESTMENTS (Sch. 3 attached)		4,95,04,565.92
CURRENT LIABILITIES			CURRENT ASSETS & LOANS AND ADVANCES		
Salary Recovery	39,150.00		Cash in Hand	53,843.00	
Security Deposit	8,61,020.00		Cash at Bank	17,43,139.32	
Payable to Res: Project a/c	4,47,454.00		Interest Accrued but not due	59,69,376.80	
Other Advance	2,500.00		Imprest	7,000.00	
Other Current Liabilities	1,55,000.00	15,05,124.00	Rent Deposits	20,000.00	77,93,359.12
TOTAL		5,72,97,925.04	TOTAL		5,72,97,925.04

Vide my report of even date attached.

Trivandrum
19th October 2017

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 2017

RECEIPTS	Amt (Rs)	PAYMENTS	Amt (Rs)
To Opening Balance:-		By Project Expenses:	
Cash in Hand	81,265.00	“ Revenue Expenses paid	1,73,58,925.65
Cash at Bank	12,82,703.76		
Receipts-Research Funds	3,93,111.00	“ Capital Expenses paid	1,63,850.00
Foreign Receipts for various Projects (As per Schedule attached)	2,04,89,553.21	Payments-Research Funds	6,84,936.00
Recovery from Salary	2,48,275.00	Other expenses paid	60,345.00
Other Advance Recovered	49,200.00	Salary Recovery Account	2,49,204.00
Security Deposit	8,61,020.00	Other Advances paid	44,700.00
Interest Received	1,92,396.00	Paid to Research Projects	2,38,581.00
Tax,Welfare fund recoveries	7,70,669.00	Tax,Welfare fund recoveries	7,70,669.00
Sales tax collected	5,34,697.00	Term Deposits renewed	30,00,000.00
		Sales tax paid	5,34,697.00
		To Closing Balance:-	
		Cash in Hand	53,843.00
		Cash at Bank	17,43,139.32
TOTAL	2,49,02,889.97	TOTAL	2,49,02,889.97

Vide my report of even date attached.

Trivandrum
19th October 2017

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

I have examined the Balance Sheet of the Project Cell of Regional Cancer Centre, Thiruvananthapuram as at 31st March 2017 and the Income and Expenditure Account together with the Schedules and notes thereon for the year ended on that date which are in agreement with the books of account maintained by the said division of Project Cell of RCC

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. In our opinion proper books of accounts have been maintained by the Division of Project Cell of Regional Cancer Centre so far as appears from our examination of the books, and subject to the following observations,

- (i) The balances under different project accounts, training funds are subject to the balance confirmation..
- (ii) The accounting towards grossing up of receipts and income with the tax deductions is done based on the information available in 26AS at the time of audit.
- (iii) Research Fund denotes Funds created for management of internal research projects of RCC and it includes interest on bank fixed deposits received and accrued during the year.

In my opinion and to the best of my information, and according to information given to us the said accounts give a true and fair view:-

- (i) In the case of the balance sheet, of the state of affairs of the project cell of RCC as at 31st March 2017 and
- (ii) In the case of the Income and Expenditure Account of the surplus for the year ending on 31st March 2017.

Trivandrum
19 October 2017

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 2017

Liabilities	Amt (Rs. Ps.)	Amt (Rs. Ps.)	Assets	Amt (Rs. Ps.)	Amt (Rs. Ps.)
CAPITAL FUND		99,63,577.62	FIXED ASSETS (Sch-5)		96,531.63
EARMARKED FUNDS					
R&D Fund (Sch.1)	8,54,39,544.30		INVESTMENTS (Sch-6)		16,18,76,638.55
Training Fund (Sch.2)	2,06,30,972.96				
Internal Project Fund (Sch.3)	28,59,477.00				
Project Fund (Sch.4)	5,87,89,444.59				
Grant in aid-Infosys	25,00,000.00		CURRENT ASSETS &		
Endowment Fund-Infosys	5,00,00,000.00	22,02,19,438.85	LOANS & ADVANCES		
			Cash in Hand - Sch-7	61,921.00	
Other Current Liabilities			Cash at Bank - Sch-8	4,38,51,077.56	4,39,12,998.56
Security Deposits	2,03,752.00		Other Current Assets		2,45,31,618.73
EPF Recovery	31,019.00	2,34,771.00	and Loans & Advances		
			(Schedule-9)		
TOTAL		23,04,17,787.47	TOTAL		23,04,17,787.47

Trivandrum
19th October 2017

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 2017

Expenditure	Amt (Rs. Ps.)	Income	Amt (Rs. Ps.)
Salary Paid	4,73,364.00	Income from Projects	13,99,552.20
Travelling Expenses	960.00	Interest received	1,24,14,084.74
Audit Fee	60,000.00		
Printing & Stationery	11,765.00		
Computer Stationery	5,710.00		
Postage Expenses	435.00		
Other Miscellaneous Expenses	38,582.50		
Depreciation	17,419.52		
Excess of Income Over Expenditure	1,32,05,400.92		
TOTAL	1,38,13,636.94	TOTAL	1,38,13,636.94

Trivandrum
19th October 2017

Finance Manager
(Projects)

DIRECTOR

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

REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM
PERIPHERAL CENTRE OF RCC AT NEENDAKARA
Receipts and Payments Account
for the year ended on 31st March 2017

Payments	Amount (Rs. Ps.)	Income	Amount (Rs.Ps.)
Salary	21,41,249.00	Grant-in-Aid received (G.O Rt.No.2905/2016/ H&FWD, Dt.28/10/2016)	20,00,000.00
Medicines	8,89,617.00	Grant-in-Aid received (G.O Rt.No.661/2017/ H&FWD, Dt.14/03/2017)	19,50,000.00
Consumables	2,07,928.00	Excess expenditure advanced by RCC	530.00
Travel Expenses	1,01,158.00		
Contingencies	1,16,249.00		
Detection Camp Expenses	4,90,379.00		
Furniture	3,950.00		
TOTAL	39,50,530.00	TOTAL	39,50,530.00

Trivandrum
17th July 2017

Finance Manager
(Projects)

DIRECTOR

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

REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM
PERIPHERAL CENTRE OF RCC AT NEENDAKARA
Utilisation Certificate

Sl.No.	Letter No. & date	Amount (Rs. in lakhs)
1	Grant-in-Aid received (Rt.No.2905/2016/H&FWD, Dt.28/10/2016)	20.00
2	Grant-in-Aid received (Rt.No.661/2017/H&FWD, Dt.14/03/2017)	19.50
	Total	39.50

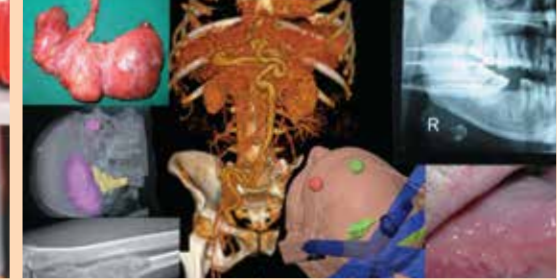
Certified that out of **Rs. 39,50,000/-** of grants-in-aid sanctioned for the peripheral Centre at Neendakara, Kollam District, Regional Cancer Centre during the year **2016-17**, a sum of **Rs. 39,50,530/-** has been utilized for the purpose for which it has been sanctioned. The Receipts and Payments account duly audited attached with this utilization certificate.

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 Organization, Geneva, Switzerland
International Agency for Research on Cancer (IARC), Lyon, France
Union for International Cancer Control (UICC) Geneva, Switzerland
World Health Organization, Regional Office, New Delhi
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 and Allied 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
Care Plus, Thiruvananthapuram
Asraya, Thiruvananthapuram
Pratyasha, Thiruvananthapuram
All our Well-wishers and Friends



REGIONAL
CANCER
CENTRE

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