



OVER THREE DECADES OF CHANGING LIVES

ANNUAL REPORT 2015-16



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 2015-2016



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REGIONAL CANCER CENTRE

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Published by

Director, Regional Cancer Centre, Thiruvananthapuram

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GOVERNING BODY

	JOYLINING DOD!	
1.	Shri. Oommen Chandy Hon'ble Chief Minister of Kerala	Chairman
2	Shri.V.S. Sivakumar	Chairman
2.		
	Hon'ble Minister for Health, Family Welfare and Devaswoms Government of Kerala	Vice-Chairman
2		VICE-CHAITHAIT
3.	Dr. K. Ellangovan, IAS	
	Secretary to Government Health & Family Welfare Department, Government of Kerala	Alt.Vice-Chairman
1		Alt. vice-Chairman
4.	Shri. Rajesh Kumar Sinha, IAS (Till 6 October 2015)	Manahan
_	Secretary, Finance (Expenditure), Finance Department, Government of Kerala	Member
5.	Shri.V.K. Baby, IAS (From 7 October 2015)	NA I
	Secretary, Finance (Resources), Finance Department, Government of Kerala	Member
6.	Dr. Alok Sheel, IAS	
	Additional Chief Secretary to Government,	N4 1
_	Planning & Economic Affairs Department, Government of Kerala	Member
7.	Shri. Bhanu Pratap Sharma, IAS	
	Secretary to Government, Ministry of Health and Family Welfare, Government of India	Member
8.	Dr. Jagdish Prasad	
	Director General of Health Services	
	Ministry of Health and Family Welfare, Government of India	Member
9.	Dr. Jaganmohan A. Tharakan (Till 14 July 2015)	
	Director, Sree Chitra Tirunal Institute for	
	Medical Sciences & Technology, Thiruvananthapuram	Member
10.	Dr. Asha Kishore (From 15 July 2015)	
	Director, Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapurar	m Member
11.	Dr. S.C. Gupta	
	'Vidya', Pulayanarkotta Road, Thiruvananthapuram	Member
12.	Dr.V. Geetha (Till 30 April 2015)	
	Director of Medical Education, Thiruvananthapuram	Member
١3.	Dr. Praveen Lal (1 – 31 May 2015)	
	Director of Medical Education, Thiruvananthapuram	Member
14.	Dr. Sreekumari K (10 June-16 September 2015)	
	Director of Medical Education (i/c),Thiruvananthapuram	Member
15.	Dr. Ramla Beevi (From 17 September 2015)	
	Director of Medical Education, Thiruvananthapuram	Member
16.	Dr. Ramdas Pisharody (Till 30 April 2015)	
	Principal, Government Medical College Thiruvananthapuram	Member
17.	Dr. P.M. Saffia (1-31 May 2015)	
	Principal, Government Medical College Thiruvananthapuram	Member
18.	Dr.Thomas Mathew (From 1 June 2015)	
	Principal, Government Medical College Thiruvananthapuram	Member
19.	Dr. Paul Sebastian	
	Director, Regional Cancer Centre, Thiruvananthapuram	Convener

EXECUTIVE COMMITTEE

۱.	Dr. K. Ellangovan, IAS	
	Secretary to Government	
	Health & Family Welfare Department, Government of Kerala	Chairman
2.	Shri. Rajesh Kumar Sinha, IAS (Till 6 October 2015)	
	Secretary, Finance (Expenditure)	
	Finance Department, Government of Kerala	Member
3.	Shri.V.K. Baby, IAS (From 7 October 2015)	
	Secretary, Finance (Resources)	
	Finance Department, Government of Kerala	Member
4.	Dr. Alok Sheel, IAS	
	Additional Chief Secretary to Government	
	Planning & Economic Affairs Department, Government of Kerala	Member
5.	Dr.V. Geetha (Till 30 April 2015)	
	Director of Medical Education, Thiruvananthapuram	Member
6.	Dr.Praveen Lal (I - 31 May 2015)	
	Director of Medical Education, Thiruvananthapuram	Member
7.	Dr. Sreekumari K (10 June-16 September 2015)	
	Director of Medical Education (i/c) Thiruvananthapuram	Member
8.	Dr. Ramla Beevi (From 17 September 2015)	
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11.	Dr.Thomas Mathew (From 1 June 2015)	
	Principal, Government Medical College Thiruvananthapuram	Member
12.	Dr. Paul Sebastian	
	Director, Regional Cancer Centre, Thiruvananthapuram	Convener



Dr. Paul Sebastian
Director

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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 35th year of RCCs crusade against cancer, we provided specialized cancer care to 2,32,198 patients including 16,042 newly registered cases.

We have had another fruitful period in the long voyage of compassionate patient care through multidisciplinary team approach and state-of-the-art technologies. The Centre made major strides during the report period, with the opening of a 38 crore multi-storey building with enhanced physical amenities for Out Patient clinics and other major departments. The new block, which was constructed using the State Government funding, could ease the acute space crunch that we have been facing for decades. Another notable achievement was the commissioning of Positron Emission Tomography scan unit (PET/CT) as a first installation in public healthcare sector in Kerala. With the introduction PET services, the Centre reaffirms its commitment to make cancer care affordable to the deserved. A state-of-the-art Simulation lab was set up in the Division of Anaesthesiology under the FIST programme of Department of Science and Technology, Govt. of India. The system facilitates clinical competency through simulation based learning in a controlled risk-free environment. The Division of Imageology acquired a Doppler ultrasound machine with facility for elastography contrast studies and transrectal probes. Transfusion Medicine division acquired a cell separator to augment plateletpheresis procedures.

The extraordinarily generous funding from State and Central Governments and also from organizations of repute is worth-mentioning. A full-fledged 3200 sq. ft. area Paediatric Oncology OP block with five consulting rooms, two counselling rooms, one observation room and a waiting area was constructed and made operational at a cost of Rs. 85 lakhs. This work was completed in record time with the generous support of Federation of Malayali Association of America (FOMA). Another 14 storey block is on the anvil, for which the State Government would provide Rs. 178 crore through plan funds.

Patient welfare schemes benefitted 12,581 new patients to avail treatment worth of Rs. 58.86 crores through various 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.

Rise in cancer cases in Kerala is a cause for serious concern. The recent report of Population Based Cancer Registry (PBCR) of the Centre also validates the notion of cancer as an emerging public health problem in the State. When compared with data from other 25 PBCRs across the country, Thiruvnanthapuram district followed by Kollam has the highest incidence of cancer in the country. Data from Thiruvananthapuram PBCR is used to estimate cancer burden and pattern in Kerala. This may not be truly representative. Hence, the situation warrants a State level cancer registry to provide an accurate estimate of magnitude of cancer. Government of Kerala has assigned RCC to chart out a comprehensive cancer registry for the state of Kerala as a backup for better cancer control strategies.

Since cancer incidence is on the rise, screening and primary care requires much attention. The Centre has already taken up various community interventions in terms of community outreach, infrastructure building and development of trained manpower. Through 444 cancer detection and 184 cancer education programmes, 491 cancers and 1762 precancers were detected. We have been represented in many Government-supported Non-Communicable Disease Prevention programmes. We are in liaison with Tobacco Free Initiative movement in India and also did many programmes on tobacco control in collaboration with Government departments and other reputed institutions.

Many research studies conducted by the Centre have highlighted a close link between tobacco usage and increased oral and lung cancer risks. The hospital cancer registry shows an alarming increase in thyroid cancer, especially among women aged between 35 and 60 years. Taking a cue from various findings, a research on thyroid cancers have already been initiated in collaboration with Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram. The Centre has tied up with Kerala Agricultural University to study anticancer properties of a rare genus of a fungus, which is commonly used for biocontrol. Preliminary studies conducted at RCC indicated that the species has the potential to suppress tumour cells and prevent proliferation of lung cancer cells.

Several of our faculty, staff and students received many awards and other awards of excellence including nine PhDs. Dr. Bipin T.Varghese, Additional Professor of Surgical Oncology received special appreciation award from Ministry of Health and Family Welfare, Govt. of Kerala in appreciation of his commendable services. Dr. K. Chandramohan, Additional Professor of Surgical Oncology has received ICRETT Fellowship in Cancer Surgery for training at the Tokyo Metropolitan Komagome Hospital, Japan. Dr. P. G. Balagopal, Additional Professor of Surgical Oncology has received P. Kesavadev Memorial award for health literature. Dr.T.T. Sreelekha, Assistant Professor of Cancer Research has received Dr. S. Vasudev Award (2015) from Kerala State Council for Science Technology and Evnironment for the best research project. Dr. C. Guruvayoorappan, Assistant Professor of Cancer Research has received Young Scientist Award (Saraswathy Srinivasan Prize) instituted by Tamil Nadu Academy of Science and ISTE-Periyar Award of Indian Society for Technical Education. Sri. V. Surendran Nair, Public Relation Officer has won Daya Puraskaram by Snehathalam Charitable Society, Kollam for his contribution in cancer awareness though print and electronic media.

The scientific events organized by the Centre during the period covered disciplines of radiotherapy, pathology, anaesthesia, radiation physics, nursing etc. Currently 155 research projects including 38 extramurally funded projects are being undertaken in the Centre. The faculty, students and the scientists of the institute published 181 scientific papers including journal articles, chapters in books and conference papers during the period. Out of 111 journal articles, 72 were published in peer reviewed indexed journals. Thirtythree residents in Medical, Paediatric and Surgical Oncology superspeciality courses and 46 residents in Anaesthesia, Pathology, Radiodiagnosis and Radiotherapy MD programmes are undergoing training. Medical Council of India has enhanced the intake capacity for MD Anaesthesia programme from three to six during the report period.

Dr. M.K.C. Nair, Vice-Chancellor, Kerala University of Health Sciences, Dr. Scott Berry, Medical Oncologist, Sunnybrook Odette Cancer Centre, Toronto, Canada, Dr. Christopher Booth, Associate Professor of Medical Oncology and Cancer Health Services Researcher, Queen's University, Canada, Dr. Ashraf Mannan, Director of Medical Genetics and Genomics, Strand Life Sciences, Bangalore and Dr. Diana Tait and Dr. Glees, Royal Marsden Hospital, London visited the Centre and delivered talks on their specialities.

We thank all organizations and philanthropists for their generous support with whose help we continue to deliver the world's best quality service to our patients. RCC-based voluntary organizations, including Asraya, Careplus and Prathyasa had continued their financial and social support for cancer survivors and their families.

We thank our organised workforce and the untiring efforts of each and everyone in bringing laurels to the Centre. We are inspired by our patients, encouraged by our success and we need to strive even better in our crusade against cancer.

I am concluding. On the pages that follow, the annual report of activities of various divisions, peripheral centres, clinics and audited accounts of RCC for the period 2015-16 are presented.

Dr. Paul Sebastian

Director

RCC Profile at a Glance

- 16.042 new cases
- 2.16.156 review cases
- 11,237 in-patient admissions
- 48,467 pathology reports
- 58,159 imaging studies
- 64,055 nuclear medicine studies
- 3,64,359 clinical laboratory investigations
- 26,353 microbiology investigations
- 6886 patients were treated with external radiotherapy and 1646 patients with brachytherapy
- 5547 surgical and 1830 endoscopic procedures
- 10,089 patients were administered chemotherapy
- 30 bone marrow transplantations
- 3328 cytogenetics, FISH & RTPCR based diagnostic studies
- 33 residents in Medical, Paediatric and Surgical Oncology superspeciality courses
- 46 residents in Anaesthesia, Pathology, Radiodiagnosis and Radiotherapy postgraduate courses
- 25 PhD scholars
- 444 cancer detection programmes and 184 cancer education programmes
- 155 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

- 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
- Plateletpheresis
- Plasma thaw bath
- Automatic component extractor T-ACE, for preparation of leucoreduced products.
- Fully automated ELISA machine
- Automated haematology analyser

Microbiology

- Automated blood culture system (BacT/Alert)
- Automated identification and sensitivity testing (VITEK)
- 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, 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 equipments

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

Anaesthesiology

Anaesthesia Simulation Lab

Imageology

Doppler ultrasound machine with facility for elastography contrast studies and transrectal probes

Nuclear Medicine

PET-CT Scanner

Transfusion Medicine

• Haemonetics Cell Separator

HUMAN RESOURCE DEVELOPMENT

RCC has been playing a key role in generating trained manpower in cancer control through conducting superspeciality, postgraduate, post-doctoral, fellowship, graduate and diploma level academic programmes. The Centre is also sought-after by students from various universities for their training in different areas such as Radiotherapy, Surgical Oncology, Cancer Research (Biotechnology), Cancer Epidemiology, Nursing, Blood Banking, Laboratory Technology, Cytopathology, Medical Oncology, Head & Neck Cancers, Gynaecologic Oncology, Pathology, Imageology, Nuclear Medicine, Microbiology, Radiation Physics, etc. Community Oncology Division also generates trained manpower by organising trainer-trainee programmes for doctors, gynaecologists, dentists, nurses, paramedicals, health workers, other professionals and lay-public to enable early detection of cancer. Training is also provided for postgraduate trainees from various Medical and Dental Colleges 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	3Yrs
DM (Medical Oncology)	3	3Yrs
DM (Paediatric Oncology)	2	3Yrs
MD (Radiotherapy)	8	3Yrs
MD (Radiodiagnosis)	2	3Yrs
MD (Anaesthesia)	6	3Yrs
MD (Pathology)	2	3Yrs
Fellowship in Head & Neck Surgery	I	2Yrs
Fellowship in Gynecologic Oncologic Surgery	I	2Yrs
Post Doctoral Certificate Course in Oncopathology	4	2Yrs
Post MSc Diploma in Radiological Physics	4	2Yrs
Doctoral research programme	30	
Quality excellence programme in Pathology	6	lYr
Advanced training in Diagnostic Imaging	2	l Yr
Post-basic Diploma in Oncology Nursing	20	lYr
Cytotechnology	4	l Yr
Cytotechnician	6	6 Months
Histotechnology	6	9 Months
Medical Documentation Training Programme	10	l Yr
Certificate Course in Palliative Care	25/session	8 weeks distance learning programme (July & November sessions)

PATIENT WELFARE SERVICES

Officers-in-charge

Patient Welfare Officer: Latha PT

Public Relations Officer: Surendran Nair V Medical Records Officer-I: Chandrika D Medical Records Officer-II: Anilkumar K

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 governmental and non-governmental support programmes.

Central and State Government Schemes

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

State and Central Government Schemes (I April 2015 to 31 March 2016)

Scheme	Patients enrolled during the period (New cases)	Amount spent during the period (Lakhs)	Total no. benefited up to 31 March 2016	Total Amount Spent (Lakhs)
Cancer Suraksha Scheme (Govt. of Kerala)	522	480.55	3859	2733.65
Chis Plus (Govt. of Kerala)	4765	1198.13	22042	4881.29
Karunya Benevolent Fund (Govt. of Kerala)	4235	2856.35	13374	7855.33
Sukrutham (Govt. of Kerala)	2513	1072.36	3468	1293.24
Thalolam (Govt. of Kerala)	21	4.91	70	17.44
Scheduled Tribe Patient Fund (Govt. of Kerala)	38	21.47	282	178.94
Snehasanthwanam for Endosulfan Victims (Govt. of Kerala)	2	6.48	34	29.13
Prime Minister's Relief Fund	153	99.96	770	694.73
Health Minister's Rashtriya Arogya Nidhi (RAN)	331	144.77	1561	559.98
Health Minister's Discretionary Fund		1.10	15	6.65
Total	12581	5886.08	45475	18250.38

RCC Initiatives

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

I. Cancer Care for Life (CCL) Scheme

163 patients reported for treatment under the scheme during the period.

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 4630 patients during the reporting period.

3. Free Food ('Akshayapathram')

Free food was provided to 8400 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

'Prathyasa', 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, 175 patients including 12 new patients received support worth Rs. 196.66 lakhs.

DIVISIONS

RADIATION ONCOLOGY

Jayaprakash PG

Professor & Head

Professors: Ramadas K, Ratheesan K, Francis V. James Additional Professors: Beela Sarah Mathew, Aswin Kumar, Sivanandan CD, Rejnish Kumar R, Susan Mathews Associate Professors: Thomas Koilparambil, 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

Resident Medical Officer: Lijeesh AL



The Division is responsible for primary care of majority of solid tumours through the four major site-specific clinics, Head & Neck, Breast & Central Nervous System, Gynaec, Genitourinary & others and Chest & Gastrointestinal. The division could reduce the treatment toxicities and improve the patient outcome by increased utilization of high-precision

radiotherapy techniques such as IMRT, IGRT, Respiratory-gating, SBRT and SRS.The Division managed 11,613 new cases during the reporting period. It also works with Medical and Paediatric Oncology divisions in providing radiotherapy to the patients of the concerned clinics.

Clinical services

External radiotherapy was given for 6886 patients and brachytherapy for 1646 patients.

Specialised Radiotherapy Services	
Services	No.
3D CRT	1710
IGRT/IMRT	453
SRS/SRT/SBRT	48
Total brachytherapy procedures	1646
Image guided brachytherapy	135 (406
	sessions)

Academic activities

- MD programme in Radiotherapy with an annual intake of eight seats. The first batch of eight students has successfully completed their course
- International Workshop on Precision Radiotherapy (IWPR) on Gynaec, Lung and Gastro-intestinal malignancies, 12-13 September 2015
- Contouring Workshop on Ano-rectal Malignancies, on 7 November 2015
- Regular clinical posting for MD and PG diploma radiotherapy students of Government Medical College, Thiruvananthapuram
- · Regular tumour board meeting in gynaecologic oncology, uro-oncology, gastroenterology, and neuro-oncology with faculty from Government Medical College, Thiruvananthapuram, Sree Avitom Thirunal Hospital and SCTIMST, Thiruvananthapuram
- Head & neck and Paediatric-oncology tumour boards

Ongoing Doctoral Research Programmes				
SI. No.	Research Scholar	Title of Study/University	Guide	
	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

Igbal Ahamed M

Professor and Head

Professor: Paul Sebastian

Additional Professors: Shaji Thomas, Bipin T. Varghese, Paul Augustine, Chandramohan K, Elizabeth Mathew lype, Balagopal PG, Rema P, Madhu Muralee, Arun Peter Mathew Associate Professors: Kurian Cherian, Suchetha S Assistant Professors: Nebu Abraham George, Mira Sudam Wagh, Rexeena V. Bhargavan





Surgical Oncology Division provided specialized site wise surgical expertise for primary treatment of majority of solid organ cancers. This year the Division was able to enhance the existing patient care protocols in line with the NABH standards and improve patient outcomes as well as effectively utilized the existing facilities to increase patient turnover without increasing the financial stress on the patients. The Division enhanced the trainee exposure to the practical aspects of surgical oncology which was reflected in the cent percent pass in the MCh Surgical Oncology examination (June-August session 2015).

As compared to previous years:

• Increased number of head and neck surgeries using minimal

access techniques especially for skull base tumours

- Increased utilisation of oncoplastic procedures and reconstructive surgeries in patients with breast cancer resulting in reduced morbidity without compromising therapeutic outcomes
- Increased number of minimally invasive surgeries for colorectal, gynaecological and thoracic malignancies
- More numbers of multivisceral resections for pelvic malignancies and hepato-biliary-pancreatic resections which required advanced levels of intraoperative care and intensive post-operative care which could be delivered in efficient manner in collaboration with Division of Anaesthesiology.

Major Procedures	
Sites	No.
Head and Neck	1150
Breast	1212
Gastrointestinal	614
Gynecologic	326
Genito-Urinary	85
Bone and sarcoma	205
Total	3592

Minor Procedures	
Procedure	No.
Minor cases	1945
LEEP	10
Total	1955

Endoscopy Procedures			
Procedure	No.		
Nasopharyngolaryngoscopy	630		
Bronchoscopy	145		
Oesophagoduodenoscopy	1005		
Colposcopy	28		
Hysteroscopy	2		
Percutaneous Endoscopic Gastrostomy	5		
Endoscopic dilatation/Stenting	15		
Total	1830		

Academic activities

- MCh programme in Surgical Oncology with an annual intake of six seats
- Fellowship in Head and Neck Surgery
- Fellowship in Gynaecologic Oncologic Surgery
- CME on Endoscopic Skull base Surgery, on 2 August 2015
- Training programme for MS, MD and MDS postgraduate students from Kerala and adjoining parts of Tamil Nadu and Karnataka

MEDICAL ONCOLOGY

Geetha N

Professor & Head

Additional Professors: Sreejith Nair, Prakash NP

Assistant Professors: Shruti Prem (Till 31.12.2015),

Anoop TM, Lakshmi Haridas Senior Resident: Sugeeth MT 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. Dose intense protocols were used for the treatment of all leukaemias and lymphomas. 2853 patients were admitted for the administration of intensive chemotherapy and management of emergencies and complications. 220 new

patients with chronic myeloid leukaemia were enrolled in the Novartis Patient Assistance (NOVA) programme and were given imatinib free of cost.

2375 new cases and 40,666 review cases were seen during the report period. In the BMT unit, stem cell transplantation following high dose chemotherapy was performed for 30 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 were 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

The Division provided comprehensive cancer treatment for childhood malignancies up to the age of 14 years. 645 new cases and 14,728 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-theart facilities is also functioning for providing intensive care to critically ill children. It has two modern ventilators with all advanced facilities, including NAVA (neutrally adjusted ventilatory assist). As part of providing comprehensive paediatric care, services of counsellor, parent support provider and pharmacist are also provided in the division..

Academic activities

- DM programme in Paediatric Oncology with an annual intake of two seats
- · 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. Monthly birthday celebrations were organized for paediatric patients with generous contribution from UST Global.



Patient Statistics	
Cases	No.
Acute Lymphoblastic Leukaemia	209
Acute Myeloid Leukaemia	28
Chronic Myeloid Leukaemia	2
Brain tumour	82
Osteosarcoma	15
Ewing's sarcoma/PNET	25
Rhabdomyosarcoma	22
Hodgkin's lymphoma	20
Non-Hodgkin's lymphoma	34
Wilms' tumour	25
Neuroblastoma	52
Hepatoblastoma	5
Germ cell tumour	14
Retinoblastoma	12
Soft tissue sarcoma	13
Nasopharyngeal carcinoma	2
Langerhans cell histiocytosis	15
Miscellaneous	43
Non malignant	27
Total	645

PATHOLOGY

Jayasudha AV, Neelima Radhakrishnan

Jayasree K

Professor & Head

Additional Professors: Rekha A. Nair. Anitha Mathews. Thara Somanathan, Nileena Nayak, Preethi TR Assistant Professors: Anila KR, Renu S, Priya Mary Jacob,

Lecturer: Sindhu Nair P Senior Residents: Rari P. Mony, Jalaja Mary George, 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
19,098	20,945	8424	48,467

Immunohistochemistry	Frozen section	FISH	Flow cytometry
(Surgical pathology +			
Cytopathology + Haematopathology)			
25,405	1096	106	746

Surgical Pathology

Specimens from RCC	Specimens for Review	Specimens for Second Opinion	Total
11,474	6813	811	19,098

Cytopathology

FNAC	Cervical smear	Sputum	Total
9101	8670	3174	20,945

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 the Centre, and MD Pathology
- students from various Medical Colleges, MDS Pathology students from Dental Colleges, M.Sc. (MLT), B.Sc. (MLT) students and Histotechnology/Immunohistochemistry trainees.
- 'International CME on Lymphomas: Mysteries of the lymph node Revealed' from 9-10 January 2016.

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 Resident: Jubiee Raj



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, and digital mammography with prone biopsy table. A state-of-the-art doppler ultrasound machine with facility for elastography contrast studies, transrectal probes, etc. was added during the period. There are facilities for MRI under anaesthesia.

New equipment acquired

• State-of-the-art doppler ultrasound machine with facility for elastography contrast studies and transrectal probes

Academic activities

- MD programme in Radiodiagnosis with an annual intake of two seats
- · Advanced training in Diagnostic Imaging

The faculty participated in activities like Trivandrum Radiology Club, Neurooncology Club, Pulmonary Radiology in SUT and RCC Breast Clinic.

Diagnostic & Interventional Studies		
Investigations	No.	
Plain X-rays	25,183	
Barium studies	312	
Ultrasound scans	10,023	
Ultrasound guided intervention	1139	
Doppler studies	440	
Digital mammography	5790	
CT scans	11,418	
CT guided intervention	944	
MRI scans	2910	
Total	58159	

NUCLEAR MEDICINE

Pradeep VM

Professor & Head

Additional Professor: Sreekumar A Senior Resident: Lekha M. Nair



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).

Major achievement

 Commissioned PET-CT scanner by Shri. Oommen Chandy, Hon'ble Chief Minister of Kerala, on 19th February 2016.
 PET stands for Positron Emission Tomography. A positron is a positively charged electron which annihilates with a normal electron. This produces two gamma rays of 511 keV moving in opposite directions. This permits the use of metabolically active substances such as glucose to be used in imaging. PET-CT is a fusion imaging technology that combines the metaboloic details obtained from PET with the anatomical data obtained from CT.

Diagnostic & Clinical Services		
Investigations	No.	
SPECT Gamma camera imaging	6908	
Radio immunoassay	56,366	
Thyroid cancer therapy	600	
Thyrotoxicosis therapy	181	
Total	64,055	

ANAESTHESIOLOGY

Rachel Cherian Koshy

Professor & Head

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

Associate Professor: Viji S. Pillai

Assistant Professors: Bhagyalakshmi R, Rajasree O, Deepthi J. Prabhu, Subha R, Frenny Ann Philip, Radhikadevi B Senior Residents: Gayathri Sasikumar, Manju B

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, CT guided biopsies, etc. Two Drager Primus Anaesthesia workstations and four multiparameter monitors were acquired during the period. Acute pain service was revamped with more documentation. Elastomeric pumps were introduced for continuous epidural analgesia.

Major achievement

Anaesthesia Simulation Lab (first in Kerala) was commissioned on 19 February 2016.

Academic activities

- MD programme in Anaesthesia with an annual intake of six seats
- In house training in Basics of Mechanical Ventilation, 12-13 November 2015
- In house BLS and ACLS training for doctors, 2-4 December 2015



Anaesthetic Services	
Pre-anaesthesia clinic	
New cases	4207
Review cases	8355
Total	12,562
Anaesthesia Techniques	
Total Intravenous Anaesthesia	36
GA+Epidural	861
GA+Controlled Ventilation	2584
GA+Spontaneous Ventilation	37
Epidural block	39
Combined spinal + epidural	215
Subarachnoid Block	112
MAC	38
Endotracheal tubes	2214
Supraglottic airway devices (I Gel)	1144
Central Venous access (non surgical)	31
Plexus & other blocks	8
GA + Block	111
Anaesthesia for children undergoing:	
MRI	29
Radiation therapy	622
CT simulation	33
Anaesthesia for brachytherapy	6
Anaesthesia for OGD scopy	6
Surgical ICU	
Number of patients on ventilator	82
Total ventilator days	166
Acute pain service	
Number of patients with epidural catheters	1115
Number of epidural days	2750

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 equipments, treatment planning and quality assurance for 3D CRT, IMRT, IGRT, SRS, SRT, 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.



Academic activities

Organized one-day pre-conference workshop on 'Radiobiology and Radiobiological modelling in Radiotherapy' on 19 November 2015 and the 36th National Conference of Medical Physicists of India (AMPICON 2015), from 20-22 November 2015 in collaboration with Association of Medical Physicists of India (AMPI)

Patient Services

Treatment given	No. of Patients
2D Radiotherapy	
CT Based Planning	2007
Conventional Planning	2668
3DCRT	1710
IMRT+IGRT	453
SRS+SRT+SBRT	48
Total	6886
Brachytherapy (Microselectron HDR)	
Gynaecologic	1471
Oesophagus	2
Image guided	135
Others	38
Total	1646
Grand total	8532
Simulation	
CT simulation	4357
Conventional simulation	4573

Ongoing Doctoral Research Programmes			
SI. No.	Research Scholar	Title of Study/University	Guide
I	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	Shaiju 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

Thomas Abraham

Scientific Officer Gr. I & Head



The division was involved in the analysis of blood and other body fluids of both out-patients and in-patients using biochemical, hematological, immunological and electrophoretic automation technologies. The division encompasses the disciplines of Phlebotomy, Clinical Chemistry, Haematology, Coagulation, Urine Analysis, Electrophoresis and Immunoassays. Many tests were being reported with appreciable turnaround time of 60 minutes or less through the bidirectional interfacing of all major analysers. The laboratory processed and analysed 3,64,359 samples consisting of 1,87,942 haematology, 1,44,353 biochemistry and 32,064 urine samples and generated 1.83 million test reports. Services were also provided for therapeutic drug monitoring for various drugs and serology for HIV and hepatitis.

Quality assurance

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

Training provided

Training was provided to B.Sc. (Biochemistry), B.Tech. (Biotechnology), B.Sc. MLT and DMLT students from Mahatma Gandhi University, Kottayam.

Investigations done	
Investigations done	
Investigations	No.
Biochemistry	9,38,898
Haematology	7,22,050
Coagulation parameters	16,305
Urinalysis	91,992
CSF (Sugar & Protein)	278
HbAIC	290
Lipid Profile	5255
Creatinine clearance test	2168
24 Hour urine protein	733
Cyclosporin	130
Methotrexate	1700
Serum Immunoglobulin Assay	6603
(IgG, IgA & IgM)	
Free Kappa	2111
Free Lambda	2111
Serum electrophoresis	1863
Immunofixation electrophoresis	956
Blood gas (ABG)	1303
Serology	
HIV	12,113
HBsAg	12,263
HCV	12,229

Training provided		
Trainees	No. trained	
B.Sc. Biochemistry	6	
B.Tech. Biotechnology	2	
B.Sc. MLT/DMLT	21	



MICROBIOLOGY

Swapna R. Nath

Associate Professor & Head

Assistant Professor: Sagila SG



The division continued to provide services in Bacteriology, Mycology, Parasitology, Mycobacteriology and Serology. There was a steady increase in number of samples processed in the division and blood cultures continued to constitute the major work. The division also supported the laboratory needs of infection control programmes in RCC.

Training provided

- Classes for doctors and staff nurses on infection control
- One year Apprenticeship Training for M.Sc. Microbiology students
- Six months internship training for B.Sc. Medical Microbiology students
- Observership for B.Sc./M.Sc. (Microbiology) students

Investigations done	
Culture, Sensitivity & Other tests	No.
Blood	11,252
Exudate	1621
Urine	2837
Throat swab	2046
Sputum	1391
Aspirate	485
Stool	497
Surveillance culture	250
Cerebrospinal fluid	76
Acid-fast bacteria	100
Fungus	200
Widal test	8
Microscopy (Gram stain, AFB stain, KOH mount, etc.)	2450
Serology	3140
Total	26353

TRANSFUSION MEDICINE

Vijayalakshmi K

Associate Professor & Head

Assistant Professor: Amitha R Resident Medical Officers: Rajesh R. Chandran (RMO on leave), Roshy G

The Division is a National AIDS Control Organization (NACO) recognized Regional Blood Transfusion Centre with an annual blood collection of over 30,000 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 outreach blood collection camps and acts as mother blood bank to blood storage centre at SK Hospital, Thiruvananthapuram.

New equipment acquired

Haemonetics Cell Separator

Clinical services	
Components	No.
Irradiation done	3097
Apheresis done	173
Single Donor Plasma	134
Cryoprecipitate	28
Packed Red Cells issued	15,066
Platelet concentrate issued	28,797
Fresh Frozen Plasma issued	5983

Academic activities

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





PALLIATIVE MEDICINE

Cherian M. Koshy

Additional Professor & Head

Resident Medical Officers: Prasanth CV, Manju Achamma Varghese



Patients referred to the Division were offered pain management and symptomatic care. The Division liaises with NGO's like 'Care Plus' to provide domiciliary care for registered patients. The division tested for safety, suitability and stability of liquid morphine in PET (Polyethylene Terephthalate) bottles. The division also imparted training to doctors practicing modern medicine, so that, they can apply for RMI (Registered Medical Institution) status, to purchase, stock and dispense oral morphine.

Patient services	
Cases	No.
New	4242
Review	12,963
Total	17,205

Academic activities

- Certificate course on Essentials of Palliative Care
- Training in palliative care for doctors and nurses and trainees from USA and Canada.

DENTAL CARE

Divya Raj

Assistant Professor



Dental wing is involved in the prophylactic dental care of all cancer patients in whom good oral health has prime importance prior to cancer treatment. Various activities of this division included pre and post treatment dental checkup, dental prophylaxis, management of trismus, management of osteoradionecrosis and post radiation dental care.

Clinical Services	
Cases	No.
Pre-treatment dental check up	1714
Post radiation care	3682
Management of Trismus	78
Dental Prophylaxis	290
BMT/Stem cell therapy consultation	42

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 276 registered nurses strives for patient safety, quality care and continuous improvement of nursing profession. The division also runs speciality clinics such as the Head and Neck Rehabilitation clinic, Lymphoedema clinic, Stoma clinic and Central Venous Access Device clinic.

Clinical services

Service	No.
Chemotherapy administration (OP)	73,344
Central Venous Access Device Clinic:	
Peripherally Inserted Central Catheter	1064
(PICC) insertion	
Total patient visits	26,903
Lymphoedema clinic (patient visits)	3888
Stoma clinic (patient visits)	3205
Head & Neck Rehabilitation clinic	
IP	2580
OP	5436

Academic activities

 National Workshop on 'Refining Skills in Oncology Nursing Research' was organized from 8-10 April 2015



- One day workshop on 'Management Skill for Nurses' was organized on 8 Aug 2015, in association with Oncology Nurses Association of India (Trivandrum Chapter)
- Two Oncology Nursing updates were conducted from 10 – 11 October 2015 and 31 October – 1 November 2015
- One day workshop on 'Basics of Cancer Chemotherapy for Nurses' was organized on 19 March 2016 in association with Oncology Nurses Association of India (Trivandrum Chapter)
- Short term training in palliative care, stoma care, chemotherapy, CVAD insertion and care, and bone marrow transplantation nursing care were given to nurses from other hospitals
- Clinical training was offered to 2171 B.Sc. Nursing, 172 M.Sc. Nursing and 23 students of Certificate Course in Nursing Administration

CLINICAL SERVICES & MEDICAL RECORDS

Chandrika D

Medical Records Officer

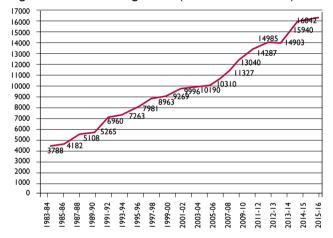
Assistant Administrative Officer (Clinical Services): Sreekumar B

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	16,042
Review cases*	2,16,156
Total patient visits	2,32,199
Daily average	774
In-Patient admissions	11,237
In-Patient bed**	365
Total bed occupancy	80,889
Average bed occupancy	222
Bed occupancy rate	85.57
Average length of stay (days)	7 days
Hospital death	773
Telemedicine consultation	1597

- * Follow up at peripheral centres, tele-clinic, palliative care, clinic to clinic consultation, review during treatment, etc. are not included.
- ** Day care chemotherapy wards, chemotherapy cubicles and other admissions not meant for overnight stay are not included.

Figure 1: New cases registered (1983-84 to 2015-16)



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. of patients	%			
F	8512	53			
М	4284	27			
0	3246	20			
Total	16,042	100			

F - Minimum payment

M - Subsidised payment

O - Normal rate

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

Re-distribution of patients under different categories					
Category	No.	%			
F	2272	14.16			
M	4284	26.71			
0	2718	16.94			
Р	235	1.47			
R	722	4.50			
S	448	2.79			
С	2896	18.05			
N	270	1.68			
K	2197	13.70			
Total	16,042	100			

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

New cases registered (Speciality clinic wise)					
Clinic	No.	%			
A	2375	14.8			
В	2575	16.0			
С	2628	16.4			
D	2708	16.9			
E	3702	23.1			
F	645	4.0			
G	1409	8.8			
Total	16,042	100			

- A Haematolymphoreticular, 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

Review cases (Speciality clinic wise)					
Clinic	No.	%			
Α	40666	18.81			
В	32147	14.87			
С	44502	20.59			
D	31262	14.46			
E	33002	15.27			
F	14728	06.81			
G	19849	09.18			
Total	2,16,156	100			

New cases (Age & Sex wise)						
Age	Male	%	Female	%	Total	%
Group						
0 -14	376	4.81	306	3.72	682	4.25
15-24	284	3.63	283	3.44	567	3.54
25-34	344	4.41	625	7.59	969	6.05
35-44	686	8.79	1366	16.59	2052	12.79
45–54	1507	19.29	2093	25.42	3600	22.44
55-64	2280	29.19	1965	23.86	4245	26.40
65-74	1680	21.52	1141	13.86	2821	17.58
75+	652	8.36	454	5.52	1106	6.89
Total	7809	100	8233	100	16,042	100

New cases registered (Religion wise)						
Religion	Male	%	Female	%	Total	%
Hindu	4419	56.6	4958	60.2	9377	58.4
Muslim	1844	23.6	1663	20.2	3507	21.9
Christian	1546	19.8	1612	19.6	3158	19.7
Total	7809	100	8233	100	16,042	100

New cases registered (Gender wise)									
Clinic	Α	В	C	D	Е	F	G	Total	%
Male	1410	1853	220	977	2678	359	312	7809	48.68
Female	965	722	2408	1731	1024	286	1097	8233	51.32
Total	2375	2575	2628	2708	3702	645	1409	16,042	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	3127	19.49
District/General hospitals	550	3.43
Other Government hospitals	2293	14.29
VSSC/ECHS/ESI/CGHS/ Railway	461	2.87
hospitals		
ECDC and peripheral centres	18	0.11
Other Cancer Centres	98	0.61
Private doctors	900	5.61
Private hospitals	7577	47.23
International (Maldives)	225	1.40
Self/RCC	793	4.95
Total	16,042	100

Referred cases (Geographical area wise)						
Kerala	No.	%				
Thiruvananthapuram	3755	23.40				
Kollam	2738	17.07				
Pathanamthitta	857	5.34				
Alappuzha	952	5.93				
Kottayam	554	3.45				
ldukki	280	1.75				
Ernakulam	636	3.97				
Thrissur	903	5.63				
Palakkad	974	6.07				
Kozhikode	457	2.85				
Malappuram	1138	7.09				
Wayanad	102	0.64				
Kannur	308	1.92				
Kasargod	205	1.28				
Other States						
Tamil Nadu	1740	10.85				
Karnataka	12	0.08				
Lakshadweep	13	0.08				
Others	193	1.20				
International	International					
Maldives	225	1.40				
Total	16,042	100				

Training provided

- Seven candidates are undergoing training in Medical Documentation Training Programme, started in September 2015.
- 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 Assistant Professor: Jayakrishnan R

The two thrust areas of the National Cancer Control Programme are primary and secondary prevention of cancers. The Community Oncology Division gives emphasis on primary and secondary prevention of cancers and also takes key initiatives for cancer control activities through human resource development programmes. To fulfil these objectives, the Division conducted trainer-trainee programmes, cancer awareness/education programmes and cancer detection camps on a regular basis.

Cancer Control Activities

Human Resource Development

- International School of Colposcopy: 16 doctors were given one-week hands on training and 30 BSc (MLT) students were given one day orientation programme on VIA,VILI and Colposcopy.
- Trainer-Trainee Programmes: 21 trainer-trainee programmes were conducted for health care providers which included doctors, post graduate medical students and paramedical staff from governmental and nongovernmental institutions. 22 programmes were conducted for community volunteers from organizations such as the Kudumbashree and ASHA, public health training students, teachers and school students from various districts of the State.

Trainer-Trainee programmes							
Categories of Trainees	No. of programmes	No. trained					
Doctors	14	381					
Nurses and paramedicals	7	184					
Community Volunteers							
(NSS, ASHA, Kudumbashree	15	620					
volunteers)							
NCC volunteers	7	750					
Total	43	1935					

Early Cancer Detection

During the period under report, 5940 persons attended the Early Cancer Detection Clinic of the Division. Oral biopsy was done for 61 patients (53 punch and 8 excision biopsies). The details of cancers and precancers detected and the activities of the colposcopy clinic and oral dysplasia clinic are given in the following tables.

Cancers and Pre-cancers detected (No. screened: 5940)					
Sites	Cancers	Precancers			
Oral	202	281			
Breast	127	854			
Cervix	35	208			
Others	39				
Total	403	1343			

Colposcopy clinic		
Procedures done	No.	
Colposcopy	2610	
Colpodirected biopsy	52	
Visual inspection using acetic acid and Lugol's	3112	
iodine		
Pap smear	1028	

Oral dysplasia clinic		
Cases detected	No.	
Leukoplakia	85	
Oral submucous fibrosis	58	
Benign lesions/conditions	138	
Total	281	

Cancer Outreach Programmes

102 cancer detection camps were conducted in various parts of the State in which 9478 people underwent screening. This included 24 cancer detection camps conducted among women residing in the Mangalapuram Breast Cancer Screening project area and seven camps in Idukki district.

Cancers & Pre-cancers detected in cancer detection camps	
(No. screened: 9478)	

Site	Cancer	Pre-cancers & benign lesions
Oral	13	257
Breast	П	79
Cervix		28
Others	6	16
Total	30	380

Apart from these, 58 cancer awareness programmes were conducted, which were attended by 6000 people. These programmes were arranged mainly for high school/higher secondary school students and teachers, office staffs, lay public and vulnerable groups like the tribal population, fishermen community, and rural population.

Tobacco Cessation Clinic (TCC)

135 tobacco users attended the Clinic for tobacco cessation assistance. Among the tobacco habitués, 69% were smokers, 20% were tobacco chewers and 11% had both the habits. They were given behavioral counseling and for patients with severe nicotine dependence, nicotine replacement therapy was also given.

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 in the rural areas of Thiruvananthapuram district. It would provide an estimate on the prevalence and patterns of tobacco and alcohol use among adolescent school students.

Utilising Kudumbashree volunteers for cancer prevention and control - the 'Swasthyam' project

RCC took the leadership role to train women volunteers of the Kudumbashree Mission in cancer prevention project initiated in Pathanamthitta district with the objective to sensitise households of Pathanamthitta district. As part of this, two general sensitization cum motivation programmes and five trainer-trainee programmes were conducted by RCC to train 164 resource persons in cancer prevention activities. One of the main objectives was to motivate eligible subjects to undergo screening for common cancers or advice them to undergo diagnostic evaluation at hospitals, if any warning signals of cancer were present.

World No Tobacco Day (31 May 2015): World No Tobacco Day was observed in collaboration with Sree Chitra Tirunal Institute for Medical Sciences and Technology, Directorate of Health Services, Tobacco Free Kerala, Kerala Voluntary Health Services, ADIC-India and the Regional Cancer Association. The programme was inaugurated by Prof. M.K.C. Nair, Vice Chancellor, Kerala University of Health Sciences, and had a panel discussion on 'Multi-sectoral interventions to counter illicit tobacco trade'.

National Cancer Awareness Day (7 November 2015): The day observed in collaboration with Regional Cancer Association was inaugurated by Dr. P.K. Radhakrishnan, Vice Chancellor, University of Kerala. A seminar was organized to empower National Service Scheme volunteers of University of Kerala on oral cancer prevention and control.

CANCER RESEARCH

Remani P (retired on 31 August 2015)

Additional Professor & Head

Kannan S (from 1 September 2015)

Professor & Head

Additional Professor: Raveendran Pillai K

Associate Professors: Sujathan K, 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 mainly focuses on interpreting the molecular mechanisms behind cancer development and progression as well as identifying molecular signatures capable of predicting disease prognosis. One such study focuses on the role of NFκB and STAT3 genes in primary and metastatic oral cancer cell lines. A new study has been initiated to validate the microRNA signature for oral carcinoma in established oral cancer cell lines to decipher the biological significance of the altered microRNAs. In addition to studies on oral cancer, a study to profile the microRNA expression pattern in uterine cervical cancer in relation to HPV infection status is also going on.

The Laboratory of Molecular Cytopathology and Proteomics mainly focuses on developing cost effective screening methods for cervical and lung cancers. Whole proteome profiling and

Raman spectroscopy are currently employed to develop a diagnostic marker for cervical cancers. The sensitivity of the sputum processing technique developed is being evaluated and the significance of immunocytochemistry for the differential diagnosis of lung adenocarcinoma in sputum is also being carried out. Beside these, the role of Galectin-3 in EMT associated gene expression and stem cell regulation in triple negative breast cancers has also been initiated.

The Laboratory of Molecular Medicine has been undertaking studies on the elucidation of cell signaling pathways in the development of breast cancer and the molecular mechanisms of multidrug resistance in ovarian cancer. Another area of focus is developing primary cell lines of breast cancers and to study the effect of the plant product, anacardic acid, in development and progression of tumors. A new study is initiated to analyze the therapeutic potential of $\alpha\text{-}$ mangostin and Garcinone E from Mangosteen against oral cancer metastasis.





The Laboratory of Cytogenetics and Molecular Diagnosis is mainly concentrating on leukaemia research, chromosomal abnormalities in various leukaemia and searching for predictive genetic markers to detect the risk group based prognostic stratification of haematological malignancies. Identification of factors which cause resistance in CML patients treated with Imatinib Mesylate is also being carried out. Cytogenetic and molecular studies in inhabitants of high natural background radiation areas of Karunagappally Taluk, Kerala is also progressing.

The Laboratory of Biopharmaceuticals & Nanomedicine is mainly focusing on new drug discovery, novel drug delivery systems and innovative cost effective technology creation. The basic research programme at the laboratory has resulted in some exciting nanoconjugates based on plant polysaccharides. Different nanoparticles and scaffolds were prepared and are being evaluated for their potential as antitumor and imaging agents. Iron and silver conjugated metallic nanoconjugates were shown to be promising substrates for Magnetic Resonance Imaging (MRI) and Surface Enhanced Raman Spectroscopy (SERS) respectively.

The Laboratory of Immunopharmacology and Experimental Therapeutics aims to explore the possibility of using natural products to mitigate the harmful side effects of radiation. 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).

Patent filed

Dr. K. Sujathan. 'A Method and System for Automated Screening of Cervical Cancer'. Indian Complete Patent Application No.4098/CHE/2015. Filed on 6 August 2015.

New Equipments Acquired

Flow Cytometry (FACS JAZZ)	-
Bench Top Lyophilizer	-
EPOCH Microplate Reader	-
Refrigerated High Speed Centrifuge	-
MUSE Cell Analyzer System	-

Diagnostic services provided		
Services	No.	
Karyotype analysis		
Bone marrow samples	1167	
Peripheral blood samples	50	
Quantitative RT-PCR for bcr-abl	747	
Qualitative RT-PCR for bcr-abl & pml-rara	764	
Fluorescent In Situ Hybridization	600	

Academic activities

• Five research scholars were awarded PhD.

Training was provided for:	
MD/MS/DM students (Dissertation work)	39
M.Sc. (Biotech)/Life Science students	
(3 months project work)	57
B.Sc. (MLT) students	220

Ongoing Doctoral Research Programmes			
SI. 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.	Veena VS	Study of biomarkers for lung cancer in sputum/ Bharathiar University	Dr. K. Sujathan
6.	Nimi GK	Study of galectins in triple negative breast cancers/M.S. University	Dr. K. Sujathan
7.	Saritha VN	Proteome analysis in squamous cell carcinoma and its precursor lesions of cervix./ M.S. University	Dr. K. Sujathan
8.	Rajesh SV	Study of cell cycle regulatory proteins in thyroid nodules./ M.S. University	Dr. K. Sujathan
9.	Suresh Kumar V	Detection of nucleophosmin gene mutations in AML patients and its impact on treatment/ University of Kerala.	Dr. S. Hariharan
10.	Aswathy CG	A study of gene expression profile in inhabitants of high background radiation of Karunagappally, Kerala, India/Mahatma Gandhi University	Dr. S. Hariharan
11.	Krishnachandran R	Blastic transformation of chronic myelogenous leukemia: Cytogenetic and molecular mechanisms orchestrating the disease progression/ University of Kerala	Dr. S. Hariharan
12.	Preethi G. Nath	Identification of novel prognostic markers in Pediatric Leukemia/ University of Kerala	Dr. S. Hariharan
13.	Akhila Raj	Molecular studies on genes responsible for drug resistance: A study on <i>de novo</i> and relapsed acute myeloid leukaemia patients/ University of Kerala	Dr. S. Hariharan
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

Ongoing Post doctoral research programme			
SI. No.	Fellow	Title of the Study	Fellowship
I	Sheeja K	Analysis of therapeutic potential of α - mangostin and Garcinone E from Mangosteen against oral cancer metastasis.	DBT BioCare Women Scientist Programme

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

Maintenance and publication of hospital and population based cancer registries (HBCR & PBCR), conducting cancer surveillance and screening programmes, cancer epidemiologic studies, providing cancer awareness classes to the community and statistical consultancy to RCC faculty and students, teaching bio-statistics to RCC students, providing training in cancer registry operations and conducting doctoral programmes in epidemiology & bio-statistics are the major activities of the division. The division is the first research centre for Bio-statistics in Kerala and currently five students are pursuing PhD.

Hospital Based Cancer Registry (HBCR)

HBCR of RCC, Thiruvananthapuram is in its 34th year under the network of National Cancer Registry Programme (NCRP) of Indian Council of Medical Research (ICMR), Govt. of India. During the period under report, out of the total of 16,042 new cases registered, 14,185 (88.4%) were invasive cancers. The division also published Hospital-Based Cancer Registry Report for the year 2012.

Population Based Cancer Registry (PBCR), Thiruvananthapuram

PBCR, Thiruvananthapuram covering the entire district (3.3 million population) is in its 5th year under the network of NCRP of ICMR in 2016. First results (2012-2014) of PBCR, Thiruvananthapuram district were published. A remarkable finding was that Thiruvananthapuram district has the highest crude cancer incidence rate (172.2 and 167.1 per 100,000 respectively for males and females for the year 2014) in India (except Aizwal district, North East region).

Cancer surveillance programmes

Surveillance programme on cancers of the breast (n=9130), uterine cervix (n=2578), and head and neck (n=14,063) patients reporting to the RCC, is in its 10th year in collaboration with NCRP. This database has been extensively used for the various clinical research programmes as well as for the post-graduate thesis work.

Cancer screening programmes

Ten cancer screening training programmes were organized for PHC doctors, Health Inspectors, JPHNs, JHIs and ASHA workers, and were attended by 1256 persons. The division also conducted 84 cancer detection programmes in various parts of Thiruvananthapuram, Kollam, Pathanamthitta, Kottayam and Idukki districts, in which 9667 persons were screened. Pap smear was collected from 1241 women.

Cancers & pre-cancers detected in cancer detection camps		
No. of camps	84	
No. screened	9667	
Oral cancer	10	
Breast cancer	13	
Cervix cancer	3	
Cervical pre-cancer	21	

Five cancer epidemiologic studies, such as (i) Time-trend analysis of cancer incidence in Thiruvananthapuram (2005-2014), (ii) Assessment of cancer incidence in Thiruvananthapuram Taluk using geographic information system (GIS), (iii) Association between dietary fat intake and prostate cancer: a meta-analysis, (iv) Association between red meat intake and colorectal cancer: a meta-analysis, and (v) Association between diet and bladder cancer: principal component analysis were conducted.

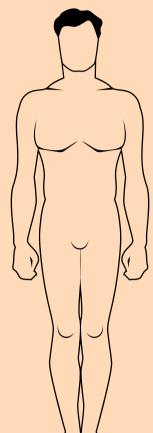
Ongoing Doctoral Programmes			
SI. No.	Research Scholar	Title of Study/University	Guide
I	Manju L	Risk estimates of bladder cancer: multiple logistic regression model/University of Kerala	Dr. Aleyamma Mathew
2	Grata Ildaphonsa	Risk factors of kidney cancer: a matched case-control study/ University of Kerala	Dr. Aleyamma Mathew
3	Sona PS	Performance status and quality of life of ovarian cancer patients/University of Kerala	Dr. Aleyamma Mathew
4	Joseph Jennings MM	Quality of life of patients with cancer of tongue undergoing treatment modalities/University of Kerala	Dr.Aleyamma Mathew
5	Devi Vijaya A	Statistical prediction of breast cancer patient survival using artificial neural network models- undergoing course work/ Mahatma Gandhi University	Dr. Aleyamma Mathew
6	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
7	Sreelekha KR	Bayesian Modelling and Posterior Inference for Breast Cancer survival data in Kerala/Mahatma Gandhi University	Dr. Preethi Sara George

ICD-10	Site	M	ale	Fen	nale	To	tal	
		No.	%	No.	%	No.	%	
C00	Lip	17	0.2	12	0.2	29	0.2	
C01	Base of tongue	12	0.2	3	0.0	15	0.1	
C02	Tongue	411	5.9	174	2.4	585	4.1	
C03	Gum	108	1.5	76	1.1	184	1.3	
C04	Floor of mouth	71	1.0	9	0.1	80	0.6	
C05	Palate	55	0.8	21	0.3	76	0.5	
C06	Other mouth	267	3.8	125	1.7	392	2.8	
C07	Parotid gland	35	0.5	27	0.4	62	0.4	
C08	Salivary gland	12	0.2	13	0.2	25	0.2	
C09	Tonsil	32	0.5	4	0.1	36	0.3	
CI0	Oropharynx	118	1.7	7	0.1	125	0.9	

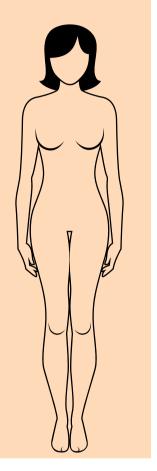
CII	Nasopharynx	49	0.7	25	0.3	74	0.5	
CI2	Pyriform sinus	53	0.7	23	0.0	55	0.3	
CI3	Hypopharynx		1.0	38	0.5	109	0.8	
C14	Pharynx unspecified	4	0.1		0.0	5	0.0	
C15	Oesophagus	257	3.7	92	1.3	349	2.5	
C16	Stomach	345	4.9	125	1.7	470	3.3	
C17	Small intestine	9	0.1	10	0.1	19	0.1	
CI8	Colon	178	2.5	127	1.8	305	2.2	
C19	Rectosigmoid colon	50	0.7	28	0.4	78	0.5	
C20	Rectum	230	3.3	150	2.1	380	2.7	
C21	Anus & anal canal	16	0.2	12	0.2	28	0.2	
C22	Liver	208	3.0	57	0.8	265	1.9	
C23	Gall bladder	23	0.3	29	0.4	52	0.4	
C24	Other biliary tract	38	0.5	29	0.4	67	0.5	
C25	Pancreas	96	1.4	68	0.9	164	1.2	
C30	Nasal cavity	15	0.2	7	0.1	22	0.2	
C31	Accessory sinus	22	0.3	7	0.1	29	0.2	
C32	Larynx	289	4.1	13	0.2	302	2.1	
C33	Trachea	2	0.0	I	0.0	3	0.0	
C34	Lung	1014	14.4	214	3.0	1228	8.7	
C37	Thymus	1	0.0	3	0.0	4	0.0	
C38	Heart & mediastinum	27	0.4	4	0.1	31	0.2	
C40	Bone of limbs	53	0.8	25	0.3	78	0.5	
C41	Other bone	25	0.4	22	0.3	47	0.3	
C43	Skin melanoma	39	0.6	35	0.5	74	0.5	
C44	Skin other	61	0.9	63	0.9	124	0.9	
C47	Peripheral nerves	10	0.1	9	0.1	19	0.1	
C48	Retroperitoneum	1	0.0	6	0.1	7	0.0	
C49	Connective tissue	111	1.6	83	1.2	194	1.4	
C50	Breast	25	0.4	2054	28.7	2079	14.7	
C51	Vulva	0	0.0	11	0.2	11	0.1	
C52	Vagina	0	0.0	13	0.2	13	0.1	
C53	Cervix uteri	0	0.0	481	6.7	481	3.4	
C54	Corpus uteri	0	0.0	296	4.1	296	2.1	
C55	Uterus, nos	0	0.0	30	0.4	30	0.2	
C56	Ovary	0	0.0	371	5.2	371	2.6	
C57	Other female genital organs	0	0.0	9	0.1	9	0.1	
C58	Placenta	0	0.0	3	0.0	3	0.0	
C60	Penis	40	0.6	0	0.0	40	0.3	
C61	Prostate	313	4.5	0	0.0	313	2.2	
C62	Testis	34	0.5	0	0.0	34	0.2	
C63	Other genital organs	3	0.0	0	0.0	3	0.0	

C64	Kidney	123	1.8	42	0.6	165	1.2	
C65	Renal pelvis	4	0.1	0	0.0	4	0.0	
C66	Ureter	3	0.0	0	0.0	3	0.0	
C67	Urinary bladder	160	2.3	21	0.3	181	1.3	
C69	Eye	12	0.2	9	0.1	21	0.1	
C71	Brain	182	2.6	115	1.6	297	2.1	
C72	Spinal cord	3	0.0	1	0.0	4	0.0	
C73	Thyroid gland	315	4.5	1059	14.8	1374	9.7	
C74	Adrenal gland	16	0.2	19	0.3	35	0.2	
C75	Other endocrine gland	0	0.0	1	0.0	1	0.0	
C76	III defined sites	0	0.0	1	0.0	1	0.0	
C77	Secondary lymph node	62	0.9	20	0.3	82	0.6	
C78	Secondary resp.& digestive	35	0.5	27	0.4	62	0.4	
C79	Secondary Other sites	28	0.4	11	0.2	39	0.3	
C80	Primary unknown	40	0.6	19	0.3	59	0.4	
C81	Hodgkin's disease	95	1.4	61	0.9	156	1.1	
C82	Follicular NHL	75	1.1	33	0.5	108	0.8	
C83	Diffuse NHL	190	2.7	109	1.5	299	2.1	
C84	T-cell lymphoma	33	0.5	25	0.3	58	0.4	
C85	Other NHL	71	1.0	38	0.5	109	0.8	
C90	Multiple myeloma	170	2.4	125	1.7	295	2.1	
C91	Leukemia, lymphoid	226	3.2	131	1.8	357	2.5	
C92	Leukemia, myeloid	197	2.8	167	2.3	364	2.6	
C93	Leukemia, monocytic	48	0.7	53	0.7	101	0.7	
C94	Other specified leukaemia	2	0.0	4	0.1	6	0.0	
C95	Leukemia, unspecified	68	1.0	40	0.6	108	0.8	
C96	Other lymphoid neoplasm	17	0.2	8	0.1	25	0.2	
	Total (Invasive)	7023	100.0	7162	100.0	14,185	100.0	
	In-situ	6	0.8	52	4.9	58	3.1	
	Borderline malignancy	100	12.8	149	13.9	249	13.4	
	Benign tumours	71	9.1	204	19.0	275	14.8	
	Non-neoplastic							
	(pre-malignant conditions & others)	257	32.8	368	34.3	625	33.7	
	Suspicious of malignancy	36	4.6	34	3.2	70	3.8	
	Not yet diagnosed	316	40.0	264	24.7	578	31.2	
	Total (Non-invasive)	786	100.0	1071	100.0	1857	100.0	
Total no.	of patients	7809	100.0	8233	100.0	16,042	100.0	

System-wise (%) distribution of invasive cancers (by Gender): HBCR, Regional Cancer Centre, Thiruvananthapuram (2015-2016)



Male N = 7023	System	Female N = 7162
185 (2.6)	Brain & Nervous System	116 (1.6)
1315 (18.9)	Oral Cavity & Pharynx	537 (7.4)
315 (4.5)	Thyroid	1059 (14.8)
1305 (18.5)	Respiratory System	228 (3.2)
25 (0.4)	Breast	2054 (28.7)
602 (8.6)	Oesophagus & Stomach	217 (3.0)
848 (12.0)	Other Digestive Organs	510 (7.1)
290 (4.2)	Urinary Tract	63 (0.9)
390 (5.6)	Reproductive System	1214 (16.9)
300 (4.4)	Bone, Conn. tissue & Skin	243 (3.4)
711 (10.1)	Leukaemia & Myeloma	520 (7.2)
481 (6.9)	Lymphoma	274 (3.8)
258 (3.7)	All Others	128 (1.9)



Population Based Cancer Registry, Thiruvananthapuram District (2014): Number, Crude Incidence Rate (CR), Annual Age-adjusted Incidence Rate (AAR) per 100,000 persons of leading cancer sites

ICD-10 code	Site		Male				Female	
		#	CR	AAR		#	CR	AAR
C00-C06	Oral cavity	286	18.0	14.1		120	6.9	5.0
C01-02	Tongue	149	9.4	7.4		47	2.7	2.0
C03-06	Mouth	132	8.3	6.5		65	3.7	2.7
C09-14	Pharynx	85	5.4	4.2		28	1.6	1.2
CI5	Oesophagus	89	5.6	4.4		17	1.0	0.8
C16	Stomach	107	6.7	5.3		46	2.6	2.0
CI8	Colon	100	6.3	5.0		80	4.6	3.6
C19-21	Rectum	118	7.4	5.9		92	5.3	3.9
C22	Liver	108	6.8	5.4		32	1.8	1.5
C25	Pancreas	62	3.9	3.0		42	2.4	1.7
C32	Larynx	115	7.3	5.7		11	0.6	0.5
C33-34	Lung	371	23.4	18.4		104	6.0	4.5
C40-41,49	Bone & Conn. tissue	50	3.2	2.8		39	2.2	2.0
C43-44	Skin	67	4.2	3.3		57	3.3	2.5
C50	Breast	14	0.9	0.7		830	47.7	36.1
C53	Cervix Uteri	0	0.0	0.0		172	9.9	7.2
C54	Corpus Uteri	0	0.0	0.0		120	6.9	5.2
C56	Ovary	0	0.0	0.0		158	9.1	7.0
C61	Prostate	206	13.0	10.3		0	0	0.0
C64-66,68	Kidney etc.	59	3.7	3.0		19	1.1	0.9
C67	Urinary Bladder	108	6.8	5.4		29	1.7	1.3
C70-72	Brain & CNS	50	3.2	2.7		46	2.6	2.5
C73	Thyroid	68	4.3	3.7		311	17.9	14.5
C81-85,96	Lymphoma	130	8.2	6.8		105	6.0	5.0
C90	Multiple Myeloma	56	3.5	2.8		43	2.5	1.9
C91-95	Leukaemia	95	6.0	5.9		67	3.9	3.7
C00-96	All Sites	2731	172.2	138.3	2	905	167.1	128.8

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.

Collection development

The Division continued its subscription to electronic journals through various publishing platforms such as ScienceDirect, Wiley online library, Oxford University Press, Springer, Informa Health, ASCO, AACR, Nature Publishing and AAAS. Arrangements were made for the off campus access too. Reprint procurement arrangement with DELNET fulfilled the user need for scholarly articles published in non subscribed journals.

Access to **UpToDate Anywhere**

In order to increase the usage and to make use of the improved features of UpToDate, off campus/remote access through mobile phones and tablets was enabled by subscribing to the **UpToDate Anywhere** version.

Access to E-resources through National Cancer Grid

In addition to the subscribed journals, the division enabled access to 53 E-journals, 72 E-books and other multimedia resources by forming part of the National Cancer Grid programme of Govt. of India.

Library Intranet

It is possible to search and retrieve the details of books, RCC publications, reprints, journal holdings, list of CD/DVD Roms and e-books through various links provided in the library page. Link provided to each journal enables direct access to full text of articles.



Information sources					
Document type	Collection as				
Document type	on 31.03.2016				
Books, Monographs and Back Volumes	12,994				
Current Journals	138				
E-Books	130				
E-Journals	131				
Reprints	7274				

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 (2014-15) were fulfilled.

Training provided

Internship training was provided to two Master of Library and Information Science students from Department of Library and Information Science, University of Kerala.

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.

Major activities undertaken during the reporting period:

- Network infrastructure work and Data Centre work for the new I0 storied building. Networking backbone cabling completed for connecting the disaster recovery site
- Oracle Database Appliance installation and commissioning
- Standby database for failover and redundancy was installed and tested

- Enterprise level unified threat management device was configured and commissioned
- Network cabling infrastructure for the renovated operation theatre area was installed and commissioned
- Five new network racks with passive components were installed and configured, provided cooling units for two racks

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 888 patients.

Screening services	
Services	No.
Awareness classes	52
Cancer detection camps	109
Persons screened	22,608
Cancers detected	341
Pre-cancers detected	1187

Clinical activities			
Tasks	ECDC	Camp	Total
Cervical smear	2879	4757	7636
Oral smear	146	41	187
Fine Needle Aspiration	3106	968	4074
Cytology			
Sputum cytology	31		31
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 2512 women. Follow up clinics were conducted every three months and 229 patients attended.

Screening services	
Services	No.
Awareness classes	74
Cancer detection camps	65
Persons screened	11,562
Cancers detected	40
Pre-cancers detected	253

Clinical activities							
Tasks	ECDC	Camp	Total				
Cervical smear	604	3279	3883				
Oral smear	21	43	64				
Fine Needle Aspiration	31	133	164				
Cytology							
Sputum cytology	5		5				
Nipple discharge	10	32	42				
Fluid cytology	2		2				

NATURAL BACKGROUND RADIATION CANCER REGISTRY (NBRR), KARUNAGAPPALLY

Jaya		l/ck	nr.	n	$\boldsymbol{\nu}$
Jaya	ı	NO.	ш	111	

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 KarunagapallyTaluk, Kollam district of Kerala. NBRR carries out radiation epidemiologic studies on cancer and non-cancerous diseases, dosimetric studies and cytogenetic studies. Cancer Care Centre attached with this registry renders cancer control activities and supportive care of cancer patients with the grant received from Health and Family Welfare Department, Govt. of Kerala and funds from various panchayats in Kollam District.

Patient services					
Services	No.	Persons attended			
Cancer awareness classes & palliative care training programmes	8	1000			
Review clinics	6	472			
Pain and palliative care clinic	Daily	7619			
Cancer detection camps	84	5355			
Pap smear screening	2657				
Other cytology investigations	236				
Cancer cases detected	54				

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. In the BMT unit, during the above period, autologous bone marrow transplantation following high dose chemotherapy was performed in 26 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	2375
Review cases	40,666
Total patient visits	43,041

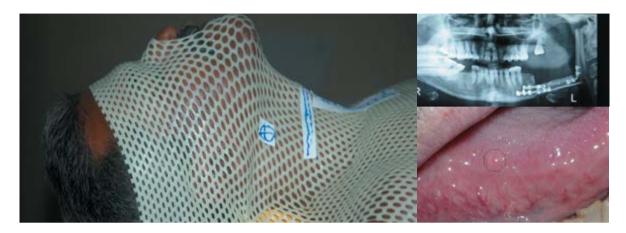
Specialised services				
High Dose	Autologous	Allogenic	Chemotherapy	
chemotherapy	BMT	BMT		
2000	26	4	20000	

Major surgical procedures : 293

Radiation treatments : 617

Observers/Visitors : 34

'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 endoscopoc 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.

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Patients consulted	
Patients	No.
New cases	2575
Review cases	32,147
Total	34,722

Radiotherapy					
	Rad	dical	Palliative		
3D CRT	IMRT	2D Planning			
I	118	1080	250		

Surgical Procedures						
Oral	Laryngo-	Salivary	Sino-nasal	Others		
cancers	pharyngeal	glands	cancers			
713	59	79	13	78		

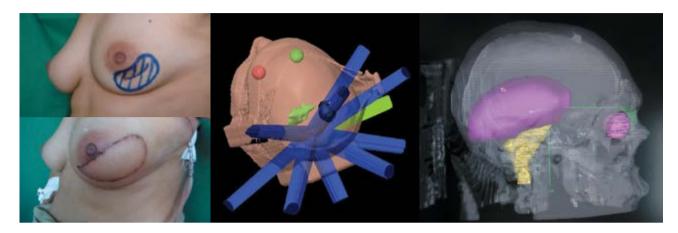
Chemotherapy

200 Concurrent chemo-radiotherapy 225 Neo-adjuvant chemotherapy

Observers/Trainees: 72 post graduate trainees in General Surgery, Radiation Oncology, ENT and Oral and Maxillofacial Surgery from various institutions in India.

'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 welltrained nurses. The month of October was observed as breast. cancer awareness month and 455 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	2628
Review cases	44,502
Total	47,130

Radiotherapy					
	Radical				
Conformal	Conventional	IMRT	Stereotactic	Palliative	
			Radiosurgery		
705	144	33	47	240	

Surgical Procedures				
Mastectomy	Breast Conservation	Others		
& Oncoplastic				
	procedures			
824	261	127		

Chemotherapy: Most of the chemotherapy was delivered on an out-patient basis and over 15,000 patients received chemotherapy during the report period.

Visitor

Dr. Oomen Koshy, Consultant Plastic & Reconstructive Surgeon, Merseyside Regional Burns & Plastic Surgery Unit, Whiston Hospital, Liverpool, UK to demonstrate microvascular reconstruction of the breast.

'D' CLINIC (GYNAEC, GENITOURINARY & OTHERS)



'D' clinic provides care for patients with gynaecologic, urologic, dermatologic cancer and cancers of unknown primary origin. Patients are treated with precision radiotherapy (IGRT, IMRT), surgery, chemotherapy, targeted and hormonal therapies. Surgical oncology services include complex cytoreductive surgeries for ovarian cancers and radical surgeries for cervical cancer and minimally invasive surgeries for endometrial cancers. 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	2708
Review cases	31,262
Total	33,970

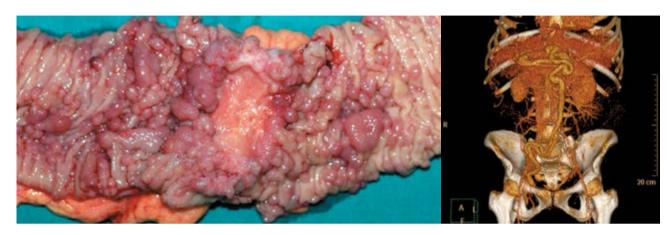
Radiotherapy					
	Radio	cal	Brachytherapy	Palliative	
3D CRT	IMRT	2D Planning			
104	117	653	1606	257	

Surgical Procedures			
Gynaecological cancers			
Ovarian	179		
Endometrial	110		
Cervical	28		
Vulva	9		
Urological cancers			
Nephrectomy	15		
Penectomy	13		
Bladder	8		
Others	64		
Skin cancers	68		

Chemotherapy

Concurrent chemo-radiotherapy	270
Neoadjuvant chemotherapy/Hormone therapy	246

'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	3702
Review cases	33,002
Total	36,705

Radiotherapy					
	Ra	adical		Palliative	
Conformal	IMRT	CT/2D Plan	Brachytherapy		
330	143	200	5	785	

Surgical procedures						
Esophagus	Stomach	Hepatobiliary	Colorectal	Others		
		& Pancreas				
78	106	34	257	187		

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

Contouring Workshop on Ano-rectal Malignancies on 7 November 2015, chaired by Dr. Diana Tait and Dr. Glees, Royal Marsden Hospital, London.

Observers/Trainees: 42 postgraduate students and 24 observers

Visitors: Five

'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 total of 1756 admissions were recorded in paediatric ward. The regular running of the clinic was supported by CANKIDS, a charitable NGO.

Clinical Services/Procedures Offered

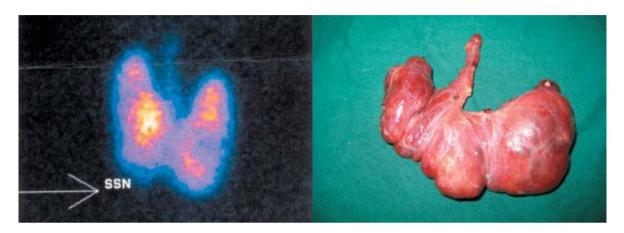
Patients consulted	
Patients	No.
New cases	645
Review cases	14,728
Total	15,373

Procedures				
Procedures	Number			
Intrathecal medication	2214			
Lumbar puncture	426			
Bone marrow aspiration/biopsy	905			
PICC line insertion	81			
PICC line dressing & resuturing	56			
Trucut biopsy	22			
FNAC	47			
Pleural/ascitic tapping	3			
Chest tube insertion	3			
Ventilator support	32			
Wound C & D, aspiration for C & S	26			

Academic activities

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	1409
Review cases	19,849
Total	21,258

Nuclear Medicine services				
Immunoassays	SPECT	Radio-iodir	ne Therapy	
	Gamma camera	Thyroid	Thyrotoxicosis	
		Cancer		
56,366	6908	600	181	

Surgical Procedures				
Total	Hemi	Revision/Completion		
Thyroidectomy	Thyroidectomy	Thyroidectomy		
177	9	61		

Public Relations Activities

Surendran Nair V

Public Relations Officer (Sr. Gr.)

The Public Relations wing deals with media relations, Cancer Care for Life scheme, security services, telephone exchange, 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 Activities

Fund raising campaign to promote contribution to the poor patients welfare fund (Akshayapathram) has been organised with the help of several individuals and philanthropic organizations. Contribution was received from 1424 donors and 423 patients benefited during this period. This fund has been utilized for food, medicine, and rehabilitation of patients who were not covered under any patient welfare schemes and those from Tamil Nadu.

Cancer Awareness Programmes

Breast cancer awareness campaign was organized in October 2015. Classes were conducted in different parts of the State to increase awareness about various patient welfare schemes. A special cancer awareness serial was aired by ACV News channel since September 2015 with the support of PR wing. Asianet TV channel aired activities of the Centre through their programme 'Sell Me the Answer'. All India Radio and various TV channels aired awareness programme on cancer with the support of PR wing.

Training provided

- Third batch of Receptionist Trainees successfully completed one year training and 4th batch Training Programme was started in July 2015. Eight candidates are undergoing training.
- Public relation and communication orientation classes were conducted for various students and trainees in MSW, MHA, MCJ, MBA, Medical Documentation, etc.

Honours, Awards and Recognitions Received

Aleyamma Mathew (Professor)

- Received Dr. Nandagudi Suryanarayana Rao award in the 55th Annual Conference of National Academy of Medical Sciences held in Patna, October 2015.
- Selected for Achanta Lakshmipathi Oration 2015-16 by National Academy of Medical Sciences, New Delhi in March 2016.

Alphy Rose James (Research Scholar), received best oral presentation award for the paper 'In silico and In vitro studies indicate the potentiality of Galactoxyloglucan Imatinib mesylate nanoparticles against multidrug resistant cells' at the conference on Recent Biochemical approaches in Therapeutics, Thiruvananthapuram, 9-11 December 2015.

Anil Prahladan (Assistant Professor), was awarded European Diploma in Radiology by the European Board of Radiology (March 2016)

Balagopal PG (Additional Professor), received P.Kesavadev Memorial award for health literature for the book titled 'What you need to know about breast cancer?'.

Bindhu KG (Staff Nurse), secured second rank in the Post Basic Diploma in Specialty Nursing (first rank in Oncology Nursing specialty) Examination conducted by Kerala Nurses and Midwives Council. (October 2015)

Bipin T. Varghese (Additional Professor)

- Received Special Appreciation award from Government of Kerala (Department of Health and family Welfare) during Doctors day celebrations on 1 July 2015.
- Received Distinguished Alumnus Award by Trivandrum Medical College Alumni Association. (September 2015)

Chandramohan K (Additional Professor)

- Received Association of Surgeons of India Dr. G. G. Chatterjee Travelling Fellowship 2015.
- Received ASI Kerala Chapter Research Grant 2015.
- Received ICRET Fellowship in Cancer Surgery, for training at the Tokyo Metropolitan Komagome Hospital, Tokyo (13 November - 12 December 2015)

Divya Raj (Assistant Professor), won 'Shastrapuraskaram 2015', State award for Best Post graduate research title 'Frequency of Human Papillomavirus Infection in Oral Squamous Cell Carcinoma and its clinical significance: A retrospective study'. (September 2015)

Elizabeth Mathew lype (Additional Professor), was awarded PhD by University of Kerala for the thesis, 'Selected molecular markers as indicators of clinical profile, tumour characteristics and treatment outcome in squamous cell carcinoma of the larynx'.

Farha AK (Research Scholar), was awarded PhD by University of Kerala for the thesis, 'Molecular mechanisms involved in the cell death induced by deoxyelephantopin, a sesquiterpene lactone from *Elephantopus scaber*'. (October 2015)

Francis V. James (Professor), awarded FICRO in November 2015

Gigi Thomas (Additional Professor), was awarded PhD in Dentistry by the University of Kerala for the thesis 'An evaluation of three prognostic biomarkers in the risk assessment of leukoplakia'. (December 2015)

Guruvayoorappan C (Assistant Professor)

- Received ISTE-Periyar Award by Indian Society for Technical Education. (December 2015)
- Received Young Scientist Award (Saraswathy Srinivasan Prize) by Tamil Nadu Academy of Science. (February 2016)

Jayakrishnan R (Associate Professor), was awarded PhD in Epidemiology by the University of Tampere, Finland for the thesis 'A community intervention trial for smoking cessation in rural Kerala, India'. (December 2015)

Manu M Joseph (Research Scholar)

 Awarded PhD by University of Kerala for the thesis, 'Studies on *Tamarindus indica* polysaccharide nanoparticle as immunomodulatory/ anticancer agent and as a potent

- drug carrier' (August 2015)
- Received best oral presentation award for the paper 'Galactoxyloglucan silver nanoparticles as excellent anticancer agent and SERS substrate' at the conference on Recent Biochemical approaches in Therapeutics, Thiruvananthapuram, 9-11 December 2015.

Mira Sudam Wagh (Assistant Professor), received second best poster award for the poster 'Intra-operative extracorporeal radiation: a limb sparing option in bone tumour, at Annual Conference of the Indian Musculo Skeletal Oncology Society, Kochi, March 2016.

Nebu Abraham George (Assistant Professor), received Indo American Cancer Association one month travelling fellowship to MSKCC, NewYork, April 2015.

Nitish Ranjan (MCh, Surgical Oncology student), received best poster award for the poster'ls faecal diversion mandatory for rectal cancer patients undergoing low anterior resection after NACTRT?', at the National Conference of IASO, Bhubaneswar, September 2015.

Prabha Pillai (Research Scholar), was awarded PhD by University of Kerala for the thesis, 'Role of signal transducers and activators of transcription in breast carcinogenesis'. (November 2015)

Rajasree O (Assistant Professor), won Ish Narani 2nd prize for the poster'Anaesthetic management of phaeochromocytoma in a patient with left heart failure' at the Annual National Conference of Indian Society of Anaesthesiologists, Jaipur. (December 2015)

Rema P (Additional Professor), received best paper award for the paper 'Pelvic exenterations for recurrent cancer cervix' at the National Conference of Gynaeoncologists of India (AGOICON 2015).

Saji S Nair (Assistant Librarian), was awarded PhD by University of Kerala for the thesis, 'An evaluative study of Library and Information Centres in the field of Allopathic Medicine in Kerala'. (May 2015)

Sangeetha Vijay (Research Scholar), was awarded PhD by University of Kerala for the thesis, 'Molecular genetic basis of resistance to Imatinib mesylate treatment in chronic myeloid leukaemia patients'. (May 2015)

Shanone C. Periera (Research Scholar), was awarded PhD by M.S University for the thesis, 'Role of Galectins in the differential diagnosis of thyroid malignancies in FNAC'. (March 2016)

Sreelekha TT (Assistant Professor)

- Received Dr. S. Vasudev award for the best project report for the year 2015 by Kerala State Council for Science Technology & Environment, Govt. of Kerala.
- Received Dr. Divya Ravindran Memorial Award 2015 for best research paper for the year 2014-2015: Manu MJ, Aravind SR, Suraj KG, Pillai R, Mini S, Sreelekha TT. 'Galactoxyloglucan-modified nanocarriers of doxorubicin for improved tumor-targeted drug delivery with minimal toxicity'. | Biomed Nanotechnol. 2014/10(11):3253-68. (16 October 2015)

Surendran Nair V (Public Relation Officer, Sr. Gr.), was honoured by Snehathalam Charitable Society, Kollam for the contribution in cancer awareness though print and electronic media.

Than Singh Tomar (MCh, Surgical Oncology student), received second best poster award for the poster 'Role of laparoscopy in predicting surgical outcomes in patients undergoing interval cytoreduction', at International Live Robotic Surgery Workshop and Master Class in Gynaecology Oncology, Kochi, September 2015.

Functions, Workshops & Conferences organized

SI. No.	Name of Programme	Date
1.	National Workshop on Refining Skills in Oncology Nursing Research	8-10 April 2015
2.	World No Tobacco Day	31 May 2015
3.	Workshop on Managerial Skill for Nurses	8 August 2015
4.	International Workshop on Precision Radiotherapy	12-13 September 2015
5.	National Cancer Awareness Day	7 November 2015
6.	Contouring Workshop on Ano-rectal Malignancies	7 November 2015
7.	AMPICON 2015: 36th Annual Conference of Association of Medical Physicists of India	20-22 November 2015
8.	International CME on Lymphomas	9-10 January 2016
9.	World Cancer Day: Inauguration of State level Programmes	4 February 2016
10.	Inauguration of New OP Block, Commissioning of PET-CT Scanner and Anaesthesia Simulation Lab	19 February 2016

Distinguished Visitors/Talks delivered

SI. No.	Visitor/Talk delivered	Date
1	Dr. M.K.C. Nair, Vice- Chancellor, Kerala University of Health Sciences	31 May 2015
2	Dr. Scott Berry, Medical Oncologist, Sunnybrook Odette Cancer Centre, Toronto, Canada. Talk: 'Opportunities for oncology education in India'.	3 June 2015
3	Dr. Christopher Booth, Associate Professor of Medical Oncology and Cancer Health Services Researcher, Queen's University, Canada. Talk: 'Cancer care and outcomes achieved in routine clinical practice'.	4 June 2015
4	Dr. Ashraf Mannan, Director of Medical Genetics and Genomics, Strand Life Sciences, Bangalore. Talk: 'Precision medicine in oncology'.	19 September 2015
5	Dr. Diana Tait and Dr Glees, Royal Marsden Hospital, London. Chaired: 'Contouring Workshop on Ano-rectal Malignancies'.	7 November 2015

GALLERY

Inauguration of the new OP Block, Commissioning of PET-CT Scanner and Anaesthesia Simulation Lab (19 February 2016)











New OP Block

PET-CT Scanner

Anaesthesia Simulation Lab



Inauguration of World No Tobacco day 2015 by Prof. M.K.C. Nair, Hon'ble Vice Chancellor, Kerala University of Health Sciences (31 May 2015)



Inauguration of National Cancer Awarness Day 2015 by Dr. P.K. Radhakrishnan, Hon'ble Vice Chancellor, University of Kerala (7 November 2015)



Inauguration of the 36th Annual Conference of Association of Medical Physicists of India (AMPICON 2015) by Shri. V.S. Sivakumar, Hon'ble Minister for Health & Family Welfare, Govt. of Kerala (20 November 2015)



Inauguration of the International CME on Lymphomas by Dr. M. Balaraman Nair, Director of Medical Education (Rtd), Govt. of Kerala (9 January 2016)



World Cancer Day 2016 (4 February 2016)

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

INTERNATIONAL

SI. No.	Delegate/Speaker	Conference/Meeting	Date & Venue	Paper/Talk/Poster/Delegate's status
I	Anil Prahladan	European Congress of Radiology 2016	2 – 6 Mar 2016, Vienna, Austria	Delegate
2	Varun Rajan	ESMO ASIA 2015	18-21 Dec 2015, Singapore	Poster: Response to bortezomib in newly diagnosed multiple myeloma: A single centre experience from India
3	Chandramohan K	4th Biennial Meeting of Eurasian Colorectal Technologies Association	25 - 26 May 2015, Moscow, Russia	Talks: I.Minimally invasive surgery for colorectal cancer: is there a uniform consensus in Europe and Asia? 2.Laparoscopic abdominoperineal resection. Is it a good start to learn laparoscopic cancer surgery?
4	Elizabeth Mathew lype	Annual Clinical Congress of the Philippines Association of Surgeons 2015	6-9 Dec 2015, Manila, Philippines	Talks: I. Radical surgery for locally advanced head and neck cancer 2. The standard of care of laryngeal cancer 3. Supraomohyoid neck dissection. 4. Achieving excellence in head and neck surgery. Video on surgery: Laryngopharyngo esophagectomy and gastric pull up.
5	Francis V. James	Gynecologic Cancer Intergroup- Cervix Cancer Research Network (GCIG CCRN) Education Symposium	28-29 Jan 2016, Bangkok	Delegate
6	Guruprasad CS	AKMG Emirates Cancer: Understanding the Unknown	13 Nov 2015, Rasal Kaimah, UAE	Faculty
7	Leena Rose Johnson	4 th Biennial Meeting of Asian Society of Gynaecologic Oncology	12-14 Nov 2015, South Korea	Talk: 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.
8	Ramadas K	Consultative Meeting On Early Detection And Screening Of Priority Cancers In The Eastern Mediterranean Region	14-15 Jan 2016, Cairo, Egypt.	Invited speaker
		Global Health Forum 2015	I- 2 Nov 2015, Taiwan	Faculty

9	Roshni S	Asian Oncology Summit	10-12 Apr 2015, Shangai, China.	Poster: Dosimetric comparison of volumetric intensity modulated radiotherapy and 3D conformal radiotherapy for primary liver tumor
10	Saju B	7 th International Oncology Conference	11-13 Sep 2015, Oman	Paper: IGRT: Q A and implementation
11	Sreelekha TT	7th International Conference on Drug Discovery and Therapy (7th ICDDT)	15-18 Feb 2016, University of Sharjah, Sharjah, UAE	Talk: Galactoxyloglucan doxorubicin nanoparticles exerts superior cytotoxic effects on cancer cells by inhibiting tyrosine kinases: A mechanistic and in silico study
12	Sujathan K	International Conference on Cytopathology	31 Aug- 2 Sep 2015, Toronto, Canada	Paper: Computer aided screening of cervical cancer using methodologies of quantitative cytology
		3 rd Nordic Symposium on Digital Pathology	3- 4 Nov 2015, Linkoping, Sweden.	Delegate
13	Sumod Mathew Koshy	European Congress of Radiology 2016	2 – 6 Mar 2016, Vienna, Austria	Poster: Diffusion weighted MR imaging of breast: can it add to the specificity of breast MRI?: report from a tertiary cancer care hospital in South India.
14	Susan Mathews	American Brachytherapy Society Annual Meeting	9–11 Apr 2015, Orlando, Florida	Paper: Can trans abdominal ultrasound replace computer tomography imaging for conformal intracavitory brachytherapy in carcinoma cervix?:a preliminary analysis Posters: I. Image based brachytherapy in carcinoma cervix using single pre-brachy MRI: a single institution experience. 2. CT optimized brachytherapy for locally advanced carcinoma cervix: clinical outcome analysis

NATIONAL

SI.	Delegate/	Conference/Meeting	Date & Venue	Paper/Talk/Poster/Delegate's status
No.	Speaker	The state of the s		
	Aleyamma	National Workshop on Refining skills in	8-10 Apr 2015,	Talk: Sampling techniques and sample
	Mathew	Oncology Nursing Research.	Thiruvananthapuram	size.
		4th International Congress on Kerala	23 May 2015,	Talk: Cancer in Kerala.
		Studies 2015	Thiruvananthapuram	D IIII III
		International Association of Cancer	7-10 Oct 2015, Mumbai	Papers: I. Urban-rural differences
		Registry Annual Meeting		of cancer incidence & mortality in
				Kerala.
				2.Trends in cancer incidence in
				Trivandrum Taluk (2005-2014).
		Workshop for Kudumbasree workers in	15 Oct 2015,	Talk: How to conduct cancer survey?
		Pathanamthitta district	Pathanamthitta	
		Annual Conference of National Academy	18-19	Talk: Cancer in Kerala: Completeness
		of Medical Sciences, Patna	Oct 2015, Patna	and quality of follow-up.
		Research day of Karakkonam Medical	1 Dec 2015	Talk: A step towards quality medical
		College, Trivandrum.	17.10.0	research
		International Conference on statistics for	17-19 Dec 2015,	Talk: Statistics leads to cancer
		21st century	University of Kerala,	epidemiology
2	A 1		Thiruvananthapuram	
2	Aleyamma	National Oncology nursing conference:		
	Mathew, Swapna	Metamorphosis in cancer care: A new	11-12 Mar 2016, Kochi	Delegates
	CR	paradigm for tomorrow's cancer care	11 12 1 141 20 10, 100011	Delegates
3	Alphy Rose James	Recent Biochemical approaches in	9-11 Dec 2015,	Paper: In silico and In vitro
		Therapeutics	Thiruvananthapuram	studies indicate the potentiality of
				galactoxyloglucan imatinib mesylate
				nanoparticles against multidrug
				resistant cells.
4	Anila KR	Ist Basic course in Molecular Diagnostics	14-25 Sep 2015, CMC,	Delegate
			Vellore	
		45th Annual Conference of Indian	19-22 Nov 2015,	Paper: Cytomorphologic spectrum
		Association of Cytologists	Himalayan Institute	of lymphocytic thyroiditis and
			of Medical Sciences,	correlation of cytologic grading with
			Dehradun	biochemical parameters.
		International CME in Pathology,	4- 6 Feb 2016, Goa	Paper: Cytomorphologic spectrum
		Histopathology and Cytopathology		of Hurthle cell neoplasm: Analysis of
				54 cases.
5	Anil Prahladan	BRACE 2015	10-11 July 2015, Madras	Talk: Imaging of oral cavity malignancy
			Medical College, Chennai	
		G-RAD 2015: CME on Breast imaging	28 Oct 2015, Sree Sree	Talk: Recent advances and future
			Gokulam Medical College,	directions in breast imaging
			Thiruvananthapuram	
		IMSOS 2016: 2 nd Annual Conference of	11-13 Mar 2016, Kochi	Panel Member
		the Indian Musculoskeletal Society		
		35th Annual Conference IRIA Kerala	24-25 Mar 2016, Kannur	Faculty: Imaging in ovarian cancer
		Chapter	1 110015 0	- ·
6	Anitha Mathews	Victorypath 2015: CME on	April 2015, Govt.	Faculty
		Neuropathology, Salivary gland pathology	Medical College,	
		and Gross pathology	Thiruvananthapuram	
/	Anitha Mathews,	APCON 2015: Annual Conference of	4-6 Dec 2015, Le	Delegates
	Preethi TR, Anila	IAPM	Meridian, Kochi	
	KR, Rari P. Mony,			
	Latha A			

8	Anitha Sen	MCI Pasis Course Wark Shap Conducted	June 2015,	Delegate
0	Aniuna sen	MCI Basic Course Work Shop Conducted	1	Delegate
		By MET (Medical Education Technology)	Govt. Medical College,	
		Wing of Medical Council of India.	Kottayam	
9	Arun Peter	9 th International Hepato-Pancreato Biliary	29 July – 2 Aug 2015,	Delegate
	Mathew	Association (IHPBA) - India Chapter	Coimbatore	
		Certificate Course in Hepato-pancreatico-		
		biliary surgery		
		Training Course in Bioethics for Medical &	14-16 Jan 2016, Kerala	Delegate
		Dental Teachers	University of Heath	Delegate
		Derital feachers	,	
		IMSOS 2016: 2nd Annual Conference of	Sciences, Thrissur	T II D' C G L'
			11-13 Mar 2016, Kochi	Talk: Biopsy for soft tissue sarcoma
	A D :	the Indian Musculoskeletal Society	22.6 2015.14	
10	Arun Peter	Advanced Hands-on Colorectal training	22 Sep 2015, Mumbai	Delegates
	Mathew, Mira			
	Sudam Wagh			
H	Arun Sankar S	International Workshop On Precision	12.6 2015 066	Chaired session on Pancreatic
		Radiotherapy (IWPR)	12 Sep 2015, RCC	Cancer
		Clinical Oncology 2015: State Conference	15.1. 0015.11	Paper: Role of radiotherapy in
		of AROI Kerala Chapter	15 Nov 2015, Kottayam	Ewing's sarcoma
		of AROI Kerala Chapter IMSOS 2016: 2 nd Annual Conference of	11-13 Mar 2016, Kochi	Poster: Clinical profile and treatment
		the Indian Musculoskeletal Society		outcome of extracorporeal
		line indian i jusculoskeletai society		
				irradiation for malignant bone
				tumors: A retrospective analysis.
		Training: 3T Plus ETTC Training Course in	14-16 Jan 2016 KUHS,	
		Bioethics for Medical and Dental Teachers		Delegate
		by The UNESCO Chair Bioethics	Thrissur	
12	Asa Rani KS	2 nd National Conference of ISRT	25-26 Sept 2015, Govt.	Paper: Role of Technologists in the
			MCH, Chandigarh	OA of non- invasive cranial SRS.
13	Baijudeen B,		6 Jan 2016, Sree Avittom	C
	Bindhu M	Workshop on Acute trauma life support	Tirunal Hospital,	Delegates
	Biridria i i	TVO I Shop on Acate tradition like support	Thiruvananthapuram	Delegates
14	Balagopal PG	ICON 2015: 33rd Meeting of the Indian	4-6 Sept 2015,	Moderated session on
17	Dalagopal FG		· ·	
		Cooperative Oncology Network	Coimbatore	Chemotherapy in head and neck
				cancers.
		International Workshop on Endoscopic	11-13 Oct 2015,	Moderated session on role of
		Skull Base Surgery	SUT Hospital,	endoscopic surgery in management
			Thiruvananthapuram	of head and neck cancers.
		International Conference on Diabetes	August 2015,	Talk: Diabetes and cancer
			Thiruvananthapuram	
15	Binitha R	GAPP, ICCP 2 : Good Antimicrobial	19-21 Feb 2016, AIMS,	Delegate
		Prescription Practices And Infection	Kochi	
		Control Certification Programme for		
17	D:-14L - D D1	Medical Professionals 2016.		D-1
16		IMSOS 2016: 2 nd Annual Conference of the	11-13 Ylar 2016, Kochi	Delegate
	1 '	Indian Musculoskeletal Society		
	Mony			
17	Bipin T. Varghese	Annual Conference of FHNO	10-13 Sep 2015, Nagpur	Video assisted instructional talk:
				Submental artery island flap in head
				and neck reconstruction.
		D C CME CIACO COLE	17.6 2015 81	
		Preconference CME of IASO 2015	17 Sep 2015, Bhubaneswar	<u>e</u>
				partial laryngectomy.
		International Workshop on Endoscopic	11-13 Oct 2015,	Chaired talk on: Application of
		Skull Base Surgery	SUT Hospital,	endoscopic approach to skull base in
		<u> </u>	Thiruvananthapuram	para-nasal sinus malignancies by Prof.
				Carl Snyderman
		International CME and hands workshop on	5-6 Feb 2016 CMC	Live surgical demonstration of
		Lasers in Larynx Cancers	Vellore	submental artery island flap.
		ILASCIS III LAI YIIX CAIICEIS	I veliole	paudinentai ai tery isianu nap.

18	Kainikkal CT	AROI – Kerala chapter meeting	April 2015, Kochi	Talk: Concurrent chemo radiation
10	I all likkai C i	7 (NOT Retails chapter meeting	7 (prii 2013, Rociii	in locally advanced head and neck
				· ·
		Most the faculty programme	27 May 2015,	cancer
		Meet the faculty programme		Faculty
		ADOLK I I I I I I I I I I I I I I I I I I I	Malabar Cancer Centre	
		AROI Kerala chapter Annual meeting	October 2015, Kottayam	Role of Induction chemotherapy in
			E 1 2017	head & neck cancer
		Work shop on contouring in head and	Feb 2016,	Talk: Contouring of carcinoma
		neck cancers organised by AROI state	Kochi	nasopharynx.
		chapter		
19	Chandramohan K	S	11 Apr 2015,	Organizing Secretary
		Surgical Oncologists	Thiruvananthapuram	
		KASICON 2015	10 May 2015, Kannur	Video presentation low anterior
				resection.
		Kerala Association of Surgical Oncology:	18 Oct 2015, Malabar	Panel Discussion Training in gynae
		CME on Gynaec Malignancies	Cancer Centre, Thalassery	oncology.
		National Rectal Cancer Workshop and	30 Jan 2016, Bangaluru	Panel discussion on low rectal cancer.
		CME		
		Integrating Palliative Care And Oncology:	21 Feb 2016, Calicut	Talk: Metastatic Colorectal Cancer:
		Evidence Based Approach		Surgical Palliative Options
		IMSOS 2016: 2 nd Annual Conference of the	11-13 Mar 2016 Kochi	Talk: Palliative surgery in extremity
		Indian Musculoskeletal Society	11 13 1 141 20 10, 110 6111	& retroperitoneal sarcoma: recent
		Indian i lusculoskeletai society		
20	Charian M. Kaalan	Dartera Davi	11.12015 C	advances.
20	Cherian M. Koshy	Doctors Day	I Jul 2015, General	Chief guest and speaker on palliative
		D: 11 1	Hospital, Munnar	care
		Pain Update Workshop	3 Jan 2016, KIMS,	Talk: Living before leaving: the ethos
			Thiruvananthapuram	of Palliative Care
		International Conference of Indian	12 –14 Feb 2016, Pune	Chairperson
		Association of Palliative Care		Poster: Rainbow of palliative care
				activities carried out through a
				primary health centre.
21	Deepthi I. Prabhu	In house two day workshop and training	12-13 Nov 2015,	Organiser
	' '	programme on mechanical ventilation for	RCC	
		medical oncology postgraduates		
22	Drishya G	39th All India Cell Biology Conference on	6– 8 Dec 2015,	Poster: In vitro culture of primary
	B11311/4 G	Cellular Organization and Dynamics.	Thiruvananthapuram	cells from cancer patients- screening
		Celidiai Oi gariization and Dynamics.	Triii dvariariti iapui arri	
23	Elizabeth Mathew	15th National Conference of Foundation		for potent MMP inhibitor. Chaired session on "New
23			11-13 Sep 2015, Nagpur	
	lype	of Head and Neck Oncology (FHNO)		Perspectives in Chemotherapy for
2.4	F :) / I	A DOLCON L 2015	27, 20 11 2015	Head-Neck SCC"
24	Francis V. James	AROICON 2015	26-29 Nov 2015,	Talk: Is RT still relevant in India in the
2.5			Lucknow	context of stage I seminoma?
25	Georgia George	Indian National Training Program in	14 Mar – 02 Apr 2016	
		Pediatric Oncology	Tata Memorial Hospital,	Delegate
			Mumbai	
26	Gigi Thomas	40th Kanala Ctata Danii I C	8-10 Jan 2016,	Dalassta
		48 th Kerala State Dental Conference	Alappuzha	Delegate
27	Guruprasad CS	PICCLE 2016 – Exam CME	16-17 Jan 2016, SATH,	Faculty
		-	Thiruvananthapuram	,
28	Guruvayoorappan	National Conference on "Experimental	24 Feb 2016, Periyar	Talk: Inflammatory bowel disease and
	C	Therapeutics and Clinical Research'	University, Salem	cancer: role of natural products in
		The apedics and Cililical Nesearch	Oniversity, Jaierri	·
		National Seminar on 'Animal Welfare and		treatment.
			11-12 Dec 2015, Karunya	Delegate
20		Ethics'.	University, Coimbatore	Dalasstas
29	Hareesh, Varun	SPEAK: Teaching Course on Carcinoma	13 Dec 2015, Mumbai	Delegates
	Rajan	Ovary		

20		DAY 1.1	2011 2015 6 11 6	I T II
30	Hariharan S	Workshop on Recent Issues in Biomedical	29 July 2015, College of	Talk: Importance of image analysis in
		Research	Engineering, Karunagapally	cytogenetics and FISH techniques in medicine.
		Workshop on Automated Metaphase	3 Aug 2015, Centre for	Talk: Automation on cytogenetics and
		finder and FISH spot Counting	Human Genetics, Chennai	FISH techniques.
		Workshop on 'Diagnostic techniques'	10 Oct 2015, RCC	Talk: Diagnostic importance of IHC,
			,	ICC and flow cytometry in cancer.
		National workshop on 'Molecular	18-19 Jan 2016, University	Lecture and demonstration.
		Diagnostics'	of Kerala, Karyavattom.	'Diagnostic Importance of
		J. ag. 100 a.es	or recala, ran yaraccorn	Cytogenetics and FISH in cancer'.
		6 th International Translational Cancer	4 -7 Feb 2016.	Talk: Cytogenetic abnormalities and
		Research Conference	Ahmedabad	Its impact on treatment response
		These are the corner errec	/ Williedabad	and survival: A study from Kerala.
		Seminar on 'Diagnostic techniques in	II Feb 2016, Govt. college,	Talk: Diagnostic techniques in cancer.
		medicine'	Karyavattom.	Taik. Diagnostic techniques in caricer.
		CME on Florescent In Situ Hybridization	18 Mar 2016, New Delhi	Delegate
		Technique	10 1 lai 2010, 1 lew Bell li	Delegate
		Seminar on 'Gene therapy: the great	29 Mar 2016,	Talk: Life style and cancer.
		debate'	Lekshmypuram College	Tank Life style and carreer.
		debate	of Arts and Sciences.	
31	Igbal Ahamed	Peritoneal Surface Oncology Group	Neyyoor 16-18 April 2015,	Delegates
١٥١	'			Delegates
	M, Arun Peter	International (PSOGI) workshop on	Bengaluru	
	Mathew,	Peritoneal Surface Malignancies		
22	Suchetha S		10.0.1.2015 M.1.1	
32	Iqbal Ahamed M	Kerala Association of Surgical Oncology:	18 Oct 2015, Malabar	Introductory talk
		CME on Gynaec Malignancies	Cancer Centre, Thalassery	T.II. D. II. II.
		IMSOS 2016: 2 nd Annual Conference of	11-13 Mar 2016, Kochi	Talk: Radiation in sarcomas: Surgeons
22		the Indian Musculoskeletal Society	0.0.11 2015	perspective.
33	Iqbal Ahamed M,	Trivandrum Cancer Congress: International	8-9 Nov 2015,	Delegates
	Paul Augustine,	CME on Colorectal Cancers	Thiruvananthapuram	
	Chandramohan			
	K, Arun Peter			
	Mathew, Kurian			
	Cherian, Anoop			
	TM, Mira Sudam			
	Wagh			
34	Jagathnath Krishna	International Conference on statistics for	17-19 Dec 2015,	Talk: Biasedness in cancer survival
	ΚM	21st century	University of Kerala,	estimates due to non-uniform loss
		,	Thiruvananthapuram	to follow-up and non-proportional
				hazards
		International Biometry Society-Indian	11-12 Jan 2016, Manipal	Talk: Red meat intake and colorectal
		Region & Public Health Evidence South	, ., .,	cancer: A meta-analysis.
		Asia, Joint conference,		
35	laisankar P	Indian Society of Medical and Paediatric	6-8 Dec 2015, Mumbai	Posters: I.The prognostic
		Oncology 2015 Meeting	1	significance of absolute monocyte
				count, absolute lymphocyte count
				and its ratio in NHL (hypothesis).
				2. Clinical features and treatment
				1
				outcome of Ph positive acute
2/	la valeniala : :- D	Courtle Indian I I amaga = -th: Cf	2 May 2015 1/2-1-11-2-1	lymphoblastic leukemia in adults.
36	Jayakrishnan R	South Indian Homeopathy Conference	2 May 2015, Kozhikode	Paper: Oral cancer: prevention and
		Voice of Tobacco Victime naturals as atting	27 June 2015, Chhatarpur,	control Talk: Bidi taxes in Kerala.
		Voice of Tobacco Victims patrons meeting	New Delhi	iaik. diui laxes iii kerala.

37	Jayasree K	INSIGHT 2015: 7 th Annual CME on Bone	21 June 2015,	Faculty
57	jayasi ee ix	Tumours	Thiruvananthapuram	Metastatic bone tumours
		APCON 2015: Annual Conference of	3-6 Dec 2015, Kochi	Faculty: Tumour like lesions of bone.
		Indian Association of Pathology and	,	Chaired session: Oral cancers.
		Microbiology		Poster: Vascular tumours of bone: A 5
		1 11010101069		year retrospective study in a tertiary
		International CME on Lymphomas:	9 – 10 Jan 2016,	care centre. Organising chairperson
		Mysteries of the Lymph Node Revealed	Thiruvananthapuram	Organising chairperson
		HISTOCON 2016: Annual CME	5 Mar 2016, MCH, Thrissur	Faculty: Slide Seminar on bone
		I 113 TO COTT 20 TO. 7 WITHOUT CITIE	3 1 101 20 10,1 101 1,111 13301	tumours
		IMSOS 2016: 2 nd Annual Conference of the	11-13 Mar 2016, Kochi	Faculty: I. IHC of soft tissue tumours.
		Indian Musculoskeletal Society		2. Fibrous and fibrohistiocytic lesions of bone.
				Posters: I. Osteoblastoma: A case
				report and review of literature.
				ALK positive anaplastic large cell
				lymphoma (ALCL) with primary
				bone involvement.
				3. Spine tumours: 5 year study.
				4.Aggressive angiomyxoma of
				retroperitoneum: A case report.
				5. Chordoma: A retrospective case
				series analysis.
38	Jayasree K, Anitha	IAPM Kerala Chapter Meeting	13 Feb 2016, Govt.	Delegates
	Mathews, Preethi		Medical College,	
	TR, Anila KR, Renu		Thiruvananthapuram	
	S, Priya Mary		·	
	Jacob, Jayasudha			
	AV, Neelima			
	Radhakrishnan			
39	Jayasudha AV	APCON 2015: Annual Conference of	4-6 Dec 2015, Le	Poster: Frequency and distribution
	,	IAPM	Meridian, Kochi	of peripheral T cell lymphoma in a
				tertiary care centre in Kerala: A two
				year study
40	Jiji∨	Clinical Update Training To PHC Medical	17 Dec 2015, KSIHFW,	Talk: Clinical update training to PHC
	,	Officers	Thiruvananthapuram	medical officers.
		Medical Imaging In Clinical Practice	14 Jan 2016, KSIHFW,	Talk: Medical imaging in clinical
			Thiruvananthapuram	practice.
		Medical Imaging	3 Mar 2016, KSIHFW,	Talk: Medical imaging
			Thiruvananthapuram	_
41	Jithin K	PHOCON 2015	19-22 Nov 2015, Pune	Poster: Hyponatraemia during
				induction chemotherapy in pediatric
				patients with acute lymphoblastic
				leukemia.
42	Joseph MM	Recent Biochemical approaches in	9-11 Dec 2015,	Paper: Galactoxyloglucan silver
	,	Therapeutics	Thiruvananthapuram	nanoparticles as excellent anticancer
		'	·	agent and SERS substrate.
43	Kalavathy MC	International Conference on statistics for	17-19 Dec 2015,	Talk: Reproductive factors and
		21st century	University of Kerala,	premalignant conditions of cervix
		'	Thiruvananthapuram	uteri: Hospital based screening
				programme.
44	Krishnachandran	28 th Kerala Science Congress	28-30 Jan 2016,	Paper: The incidence, patterns and
	R		Malappuram	prognostic significance of BCRABL
			a.apparam	rearrangement in three clinical
				phases of CML patients using FISH.
			<u> </u>	priases of Citil patients using FISH.

45	Kurian Cherian,	Inaugural CME of Kerala Association of	11 Apr 2015,	Delegates
43				Delegates
	Rexeena V.	Surgical Oncologists	Thiruvananthapuram	
17	Bhargavan			
46	Lizyamma Jacob	17 th National Oncology Nursing	5 -7 Nov 2015, AIIMS,	
	Geethakumari B	Conference	Delhi	Delegates
	Sindhumol M G			
47	Madhu Muralee	KASICON 2015	10 May 2015, Kannur	Video on Perineal dissection in rectal
				cancers.
		Annual ASI Kerala Chapter CME	September 2015, Calicut	Panel discussion on Sarcoma.
		Trivandrum Cancer Congress, International	8-9 Nov 2015,	Talk: Staging and prognosis on
		CME on Colorectal Cancers	Thiruvananthapuram	colorectal cancers.
		75 th ASICON 2015	16-20 Dec 2015, Delhi	Talk: Perineal complications of APR.
		ASI Peripheral Meet	February 2016, Adoor	Faculty in a live workshop
48	Mallika	ASGCON 2016 'JAI – CME': Jubilee Anaesthesia Insight,	March 2016, Kollam April 2015,	Talk: Extra levator APR Delegates
40				Delegates
	Balakrishnan,Viji	Workshop on Ultrasound guided Regional	Thrissur	
40	S. Pillai	Anaesthesia and Advanced Nerve Blocks	(0 4 2015	Delegates
49	Mallika	TRISZAC 2015: 31st Annual South zone	6-9 Aug 2015,	Delegates
	Balakrishnan, Viji	and 39th Annual conference of Kerala	Thiruvananthapuram	
	S.Pillai, Sudha P,	Chapter of ISA		
	Bhagyalakshmi R,			
	Subha R, Rajasree			
	O, Deepthi J.			
	Prabhu, Radhika			
	Devi B			
50	Mallika	AORA 2015: Regional Anaesthesia	23-25 Sep 2015, Bangalore	Delegate
	Balakrishnan,	Conference		3
	Subha R			
51	Malu Rafi	Work shop on contouring in head and	Feb 2016, Kochi	Talk: Contouring for carcinoma
		neck cancers organised by AROI state	,	oropharynx.
		chapter		
52	Manjusha Nair	PHOCON 2015	19-22 Nov 2015, Pune	Poster: Outcome of pediatric
	,		,	medulloblastoma: experience from a
				Regional Cancer Centre in India.
53	Mary Thomas	TRISZAC 2015: 31st Annual South zone	6-9 Aug 2015,	Talk: Sterilisation and disinfection
	i iai / i i ioi i iai	and 39th Annual conference of Kerala	Thiruvananthapuram	of OT.
		Chapter of ISA	Triii dvariaritriapararri	01.01.
		Anesthesia Refresher Course (ARC)	18 Oct 2015, AIMS, Kochi	Talk: Evaluation of COPD patient
		Allestresia Nell'estrel Codi se (Al C)	10 Oct 2013, All 13, Rocili	
		ISAMIDCON 2016: Midterm CME and	13 Mar 2016, MOSC	coming for surgery. Talk: Anaesthesia for head and neck
		PG Quest organized by ISA Kerala State	Medical College,	
		Chapter		surgery.
54	Maya Devi L	Chapter National Ostomy Care, Educational Event	Kolencherry 18 Apr 2015, Hyderabad	Delegates
77	,	Tradional Ostony Care, Educational Event	13 Jan 2016, Sree	Delegates
	Geetha Kumari	Living with Stomar and Indate	Gokulam Nursing College,	Pasaursa parsans
	BS	Living with Stoma: an Update		Resource persons
55	Mira Sudam \ \/a=h	IMSOS 2016: 2 nd Annual Conference of	Thiruvananthapuram II-13 Mar 2016, Kochi	Poster: Intra operative
55	Mira Sudam Wagh		11-13 Mar 2016, NOCH	
		the Indian Musculoskeletal Society		extracorporeal radiation: A limb
Γ/	NA II NAT		20.20.6 2015.6	sparing option in bone tumour.
56	Molly MT	Training of Trainers of Nurses on	28-30 Sep 2015, Gov.	Delegate
		Tuberculosis under GFATM Round -7	College of Nursing,	
1			Thiruvananthapuram	

57	Nileena Nayak	Victorypath 2015: CME on	April 2015, Govt.	Faculty
)	NICCIA I Nayan	Neuropathology, Salivary gland pathology	Medical College,	Cytology of salivary gland tumors:
		and Gross pathology	Thiruvananthapuram	Lecture & slide seminar.
		IAPM Kerala Chapter Meeting	8 Aug 2015, Pushpagiri	Poster: Histoplasmosis masquerading
		I Triciala Chapter Freeting	Medical College, Thiruvalla	as thymic malignancy: A case report.
		45th Annual Conference of Indian	19-22 Nov 2015,	Poster:
		Association of Cytologists	Himalayan Institute	I.Utility of histogel in routine
		Association of Cytologists	of Medical Sciences,	cellblock: A pilot study.
			Dehradun	
			Denradun	2.Clinical, radiological and
				morphological mimickers of lung
				carcinoma: case reports of 3 benign
				lesions diagnosed on fine needle
		ADCON12015 A 1.C. (14 (D 2015)	aspiration.
		APCON 2015: Annual Conference of	4-6 Dec 2015, Le	Poster: I. An analysis of cytology
		IAPM	Meridian, Kochi	of germ cell tumors with
				histopathological and serum marker
				correlation: A tertiary care centre
				experience.
				2. Guided fine needle aspiration
				biopsy of solid pancreatic lesions: 2
				year retrospective study.
58	Nileena Nayak,	International CME on Lymphomas:	9 – 10 Jan 2016,	Delegates
	Sindhu Nair P,	Mysteries of the Lymph Node Revealed	Thiruvananthapuram	
	Anila KR, Renu S,		·	
	Priya Mary Jacob,			
	Jayasudha AV, Rari			
	P. Mony			
59	Nileena Nayak	IAC KC CON 2016: 4th Annual Cytology	29-30 Jan 2016, JSS	Faculty
		Conference of IAC, Karnataka chapter	Medical College, Mysuru	Fine needle aspiration cytology of
				salivary gland lesions: lecture & slide
				seminar
		International CME in Pathology,	4- 6 Feb 2016, Goa	Paper: A minimal antibody panel
		Histopathology and Cytopathology		approach for subtyping non small
				cell lung carcinoma on cellblocks: A
				retrospective study.
		IAPM Kerala Chapter Meeting	13 Feb 2016, Govt.	Paper:
			Medical College,	Histoplasmosis masquerading as
			Thiruvananthapuram	thymic malignancy: A case report
			·	with review of literature.
60	Paul Augustine	National Seminar on Phytochemistry: An	3 Sep 2015, Assumption	Talk: Cancer: an overview.
		emerging branch for the development of	College, Changanasserry	
L		potential anticancer drugs		
61	Paul Augustine	International Seminar on Recent	9 Dec 2015,	Talk:Therapuetic approach in breast
		Biochemical Approaches in Therapuetics	University of Kerala,	cancer.
		(RBAT-II)	Thiruvananthapuram	
62	Paul Sebastian,	CME on Endoscopic Skull Base Surgery	11-13 Oct 2015,	Delegates
	Shaji Thomas,		SUT Hospital,	
	Balagopal PG,		Thiruvananthapuram	
	Bipin T. Varghese,			
	Elizabeth M. lype,			
	Nebu Abraham			
	George, Rexeena			
	Bharagavan			
	idi agavan		1	

63	Preethi Sara	National Workshop on Refining skills in	8-10 April 2015,	Talk: Parametric and non-parametric
	George	Oncology Nursing Research.	Thiruvananthapuram	methods in statistics.
		International Association of Cancer Registry, Annual meeting	7-10 Oct 2015, Mumbai	Talk: I. Geo-relationship between cancer cases and the environment in Trivandrum. 2. Assessment of completeness in Trivandrum cancer registry data: capture-recapture method.
		International Conference on statistics for 21st century	17-19 Dec 2015, University of Kerala, Thiruvananthapuram	Talk: Geographic Information System (GIS) an effective tool for cancer control activities.
64	Preethi TR, Sindhu Nair P, Anila KR, Renu S, Jayasudha AV, Rari P. Mony	IAP – ID Annual Conference	3 Dec 2015, Le Meridian, Kochi	Delegates
65	Priyakumari T, Binitha R	INSIGHT 2015: 7 th Annual CME on Bone Tumours	21 June 2015, Thiruvananthapuram	Faculty
66	Priyakumari T	PHOCON 2015	21-22 Nov 2015, Pune	Delegate
67	Priyakumari T, Sheethal K, Jithin TK, Shwetha Seetharam	International CME on Lymphomas: Mysteries of the Lymph Node Revealed	9-10 Jan 2016 Thiruvananthapuram	Delegates
68	Priyakumari T	IMSOS 2016: 2 nd Annual Conference of the Indian Musculoskeletal Society	11-13 Mar 2016, Kochi	Chairperson : Pediatric oncology session.
69	Rachel Cherian Koshy	Indian Musculoskeletal Society TRISZAC 2015: 31st Annual South zone and 39th Annual conference of Kerala Chapter of ISA	6-9 Aug 2015, Thiruvananthapuram	Talk: Anaesthesia for head and neck cancer surgery.
		South Zone Summit of All India Association of Practising Anaesthesiologists: Current Challenges in Anaesthesia		Delegate
70	Raghukumar P	National Symposium on OSLD in Advanced Radiotherapy Practice.	26 Sep 2015, KMIO, Bangalore	Delegate
		Workshop on Radiobiology and radiobiological modeling in RT	19 Nov 2015, RCC	Delegate
		36 th Annual Conference of Association of Medical Physicists of India	20-22 Nov 2015, Thiruvananthapuram	Delegate
71	Raghu Ram K.Nair, Raghukumar P, Saju B, Zhenia Gopalakrishnan, Debjani Phani, Shaiju VS, Sharika V.Menon	International Workshop On Precision Radiotherapy (IWPR)	12 Sep 2015, RCC	Delegates
72	Raghu Ram K.Nair	radiobiological modeling in RT	19 Nov 2015, RCC	Organising Chairman
		36 th Annual Conference of Association of Medical Physicists of India	20-22 Nov 2015, Thiruvananthapuram	Organising Chairman

73	Ramachandran K	Updates in Transplantation 2015 conducted	23 Aug 2015	Delegate
/ 5	Trainachandrain R	by IRIA Kerala and IMA.	Thiruvananthapuram	Delegate
		Hepatathlon 2015 mid term CME, IR & IA Kerala.	13 Sep 2015, Thiruvalla	Chaired a session
		G-RAD 2015: CME on Breast imaging	28 Oct 2015, Sree	Presented an overview of breast
			Gokulam Medical College,	imaging.
			Thiruvananthapuram	
		BISICON 2015: National conference of	13-15 Nov 2015,	Talk: Mammography: worked up
		Breast Imaging Society of India.	Bengaluru	cases.
		AMPICON 2015: 36 Annual Conference of	20 – 22 Nov 2015,	Delegate
		Association of Medical Physicists of India.	Regional Cancer Centre	
74	Ramadas K	AROICON 2015	26-29 Nov 2015,	Faculty
			Lucknow	Faculty
		CME programme on Breast Cancer	6 Feb 2016, Ambillikai,	Faculty
		Management	Tamil Nadu	I acuity
75	Rani Chandra V	Training of Trainers of Nurses on	14-16 Sep 2015, Gov.	
		Tuberculosis Under GFATM Round -7	College of Nursing,	Delegate
			Thiruvananthapuram	
76	Rema P	International Live Robotic Surgery	10-11Sep 2015, Kochi	Delegate
		workshop & Master class in gynecologic		
		oncology		
		CME Session V	22 Nov 2015, Pushpagiri	Talk: 'Screening for cancer cervix &
		1.000110015	Medical College, Thiruvalla	
77	Renu S	APCON 2015: Annual Conference of	4-6 Dec 2015, Le	Poster:
		IAPM	Meridian, Kochi	Primary gastrointestinal lymphomas:
				Anatomical distribution and
		L. CME D. I	4 (5 20 (6	histological subtypes.
		International CME in Pathology,	4- 6 Feb 2016, Goa	Poster:
		Histopathology and Cytopathology		Epidermodysplasiaverruciformis
				associated with T cell lymphoma,
				langerhans cell histiocytosis and
				squamous cell carcinoma.
		Quality Management Systems and Internal	25- 28 Feb 2016,	Delegate
		Audit in Medical Labs as per ISO 15189-	Pushpagiri Medical College	
	2 11 2 1 00	2012	Thiruvalla	
78	Rethi Devi GS	Training of Trainers of Nurses on	21 -23 May 2015, Govt.	Delegate
		Tuberculosis Under GFATM Round -7	College of Nursing,	
70	D: 1.1	D. F. et al. C. F. I.T.	Thiruvananthapuram	
79	Ridukumar	Pediatric Solid Tumour Workshop	22-24 Apr 2015, Mumbai	Delegate
		ICON 2015: 33rd Meeting of the Indian	4-6 Sept 2015,	Delegate
		Cooperative Oncology Network Indian Society of Medical and Paediatric	Coimbatore 6-8 Dec 2015, Mumbai	Posters: I.The prognostic value of
		Oncology 2015 Meeting	0-0 Dec 2015,1 Idilibai	absolute lymphocyte and monocyte
		Oncology 2013 Pleeting		
				count and its ratio at diagnosis in
				Hodgkin's Lymphoma (hypothesis).
				2. Clinical profile and treatment
				outcome of desmoplastic small
				round cell tumors: a single centre
00	D 1 1	D + (ACCO 2015	27.201 2015	experience.
80	Rona Joseph,	Best of ASCO, 2015	27-28 Jun 2015,	Delegates
	Jaisankar P,		Hyderabad	
	Ridukumar			

81	Rona Joseph	Indian Society of Medical and Paediatric Oncology 2015 Meeting	6-8 Dec 2015, Mumbai	Posters: I. Clinical feature and treatment outcomes of acute erythroleukemia: A review of 27 patients. 2. Prognostic significance of myeloid antigene expression in ALL: A follow
				up study.
82	Roshni S	International Workshop On Precision Radiotherapy (IWPR)	12 Sep 2015, RCC	Chaired session on rectal cancer.
		Clinical Oncology 2015: State Conference of AROI Kerala Chapter	15 Nov 2015, Kottayam	Paper: Targeted therapy in metastatic colo-rectal cancers.
		FOCUS workshop at RCC	11 July 2015, Trivandrum	Paper: Lung carcinoma
		Annual Conference of Gastrosurgeons	20 Feb 2016, Kollam	Paper: Shortcourse Vs longcourse radiation in carcinoma rectum.
83	Sagila SG	Clinical and Diagnostic Mycology:	6- 9 Aug 2015, St. Johns	
		Symposium and Workshop	Medical College, Bangaluru	Delegate
		Viral infection: Current Scenario – CME	27 Feb 2016, Govt.	
			Medical College,	Delegate
			Thiruvananthapuram	Delegate
84	Sajeed A	International Workshop On Precision		Chaired session on Upper gastro-
0 1	Jajecu / t	Radiotherapy (IWPR)	12 September 2015, RCC	intestinal malignancies.
85	Saju B	Workshop on Radiobiology and	19 Nov 2015, RCC	Organising Secretary
03	Jaju D	radiobiological modeling in RT	171100 2013,1100	Organising Secretary
		36th Annual Conference of Association of	20-22 Nov 2015,	Organising Secretary
			1	Organising Secretary
86	Shaiju VS	Medical Physicists of India CME on Advanced Radiotherapy	Thiruvananthapuram 6 Sep 2015, MCC,	Talk: Advanced RT planning in head &
00	Ji lalju v J	Techniques	Thalassery	neck cancers.
87	Shaii Thomas Mira	Kerala Association of Surgical Oncology:	18 Oct 2015, Malabar	Delegates
07	Sudam Wagh	CME on Gynaec Malignancies	Cancer Centre, Thalassery	Delegates
88	Shaji Thomas	Trivandrum Plastic surgeons meet	12 Feb 2016.	Talk: Local flaps in head and neck
00	Shaji momas	Trivarial arri Flastic surgeons meet	1	reconstruction.
89	Sheethal K	PHOCON 2015	Thiruvananthapuram 19-22 Nov 2015, Pune	Poster: Myeloid sarcoma:
07	Si leeti lai K	FROCON 2013	19-22 190V 2013, Fulle	
				Clinicopathological analysis of 22
				pediatric patients with myeloid
00	CI II	DI 10 CON 1 20 I F	10.22.112015.0	sarcoma.
90	Shwetha	PHOCON 2015	19-22 Nov 2015, Pune	Poster: Tumour lysis syndrome during
	Seetharam			induction chemotherapy in paediatric
				patients with acute lymphoblastic
				leukaemia.
		PHOCON 2015	19-22 Nov 2015, Pune	Poster: Hypertension during
				induction chemotherapy in pediatric
				patients with acute lymphoblastic
				leukemia.
		PHOCON 2015	19-22 Nov 2015, Pune	Poster: B Lymphoblastic lymphoma
				of the bone.
91	Sindhu Nair P,	IAPM Kerala Chapter Meeting	8 Aug 2015, Pushpagiri	Delegates
1	Anila KR, Renu S	'	Medical College, Thiruvalla	

92	Sindhu Nair P	APCON 2015: Annual Conference of	4-6 Dec 2015, Le	Poster: An analysis of cytology
		IIAPM	Meridian, Kochi	of germ cell tumors with
			Terralari, Nocrii	histopathological and serum marker
				correlation: A tertiary care centre
1				,
		MID PULMOCON 2015: Mid term	II Oct 2015, CPCRI,	experience. Delegate
		Conference of Academy of Pulmonary and		Delegate
		Critical Care Medicine	Nasai agou	
		Symposium on Genomics in Diagnosis,	24 Feb 2016, National	Delegate
		Translational Research and Clinical	Institute of Advanced	Delegate
		Medicine	Studies, Bangaluru	
		Advisory Meeting on Cytogenetics,	25 Feb 2016, The Capitol	Delegate
		Genomics and FISH Assays in Oncology	Hotel, Bangaluru	Delegate
		Lung Cancer Diagnosis: Preceptorship	18-19 Mar 2016, Christian	Delegate
		Programme	Medical College, Vellore	Delegate
		IMSOS 2016: 2 nd Annual Conference of	11-13 Mar 2016, Kochi	Poster: Two interesting cases of
		the Indian Musculoskeletal Society	11 13 1 141 2010, NOCH	lesions involving jawbones.
93	Sivanandan C D	International Workshop On Precision		
		Radiotherapy (IWPR)	12 Sep 2015, RCC	Chaired session on rectal cancer.
94	Sobha S, Indu V S	Infection control:	21 Nov 2015, KIMS	Delegates
	Ariya Sreedharan	Clean hands, Stop germs		
	Bindhurani PV	Siedir Harres, etep germe		
	Sophiya Lilly	4 th National Conference of Infusion Nurses		
	· · · / · · /	Society India: Infusion safety: Setting		Poster: Challenging IV therapy using
		standards for Excellence	Library, Kolkata	double lumen central catheters.
96	Sreelekha R	17th National Oncology Nursing	05 - 07 Nov 2015, AIIMS	
		Conference	Delhi	Talk: Newer diagnostic tests in cancer.
			25 Nov 2015, IMG	T
		Training for Nurses	Thiruvananthapuram	Talk: Quality assurance in nursing.
			16 Jan 2016, Co-operative	
		Insights of Nursing profession	College of Nursing,	Talk: Quality patient care.
			Thiruvananthapuram	
		National Oncology Nursing conference:	'	T-11 C-f-
		Metamorphosis in cancer Care : A new	11-12 Mar 2016, Kochi	Talk: Safe handling of hazardous drug
		paradigm for tomorrow cancer care		and medical surveillance.
97	Sreelekha TT	Recent Biochemical approaches in	9-11 Dec 2015,	Talk: Polysaccharide nanoconjugates
		Therapeutics	Thiruvananthapuram	for targeted drug delivery and
			· ·	imaging of cancer cells.
		28th Kerala Science Congress	28-30 Jan 2016,	
			Malappuram	Delegate
98	Suchetha S	International live Robotic work shop and	Sep 2015, AIMS, Kochi	Faculty in tumor board on ovarian
		Master class in Gynecological Oncology		cancer.
		Kerala Association of Surgical Oncology:	18 Oct 2015, Malabar	Talk: Surgical staging cancer
		CME on Gynaec Malignancies	Cancer Centre, Thalassery	endometrium.
		AGOICON 2015 Live workshop and	27-29 Nov 2015,	Panelist: Surgical complications of
		Conference	Hyderabad	gynaec oncological surgeries: Open,
			, ,	laparoscopic and robotic.
				Poster: Pattern of lymphnode
				metastasis in endometrial cancer.
99	Sugeeth, Rakul	An International Update on Multiple	October 2015, Mumbai	Delegates
	Nambiar	Myeloma and Chronic Lymphocytic		S
		Leukaemia.		
		UGC sponsored National Seminar on	3 Jul 2015,	Talk: Cervical cancer: molecular
100	Sujathan K			
100	Sujathan K		1 -	biology prevention and control
100	Sujathan K	advances in Biotechnology. STTP on Recent Issues in Biomedical	SN College, Cherthala. 29 -31 Jul 2015, College of	biology, prevention and control. Talk: Recent trends in medical image

101	Sumod Mathew	G-RAD 2015: CME on Breast Imaging	28 Oct 2015, Sree	Paper: Breast MR imaging.
101	Koshy	10-10-10 2013. Clile on breast imaging	Gokulam Medical College,	aper. Dreast i il linaging.
	KOSHY		Thiruvananthapuram	
		BISICON 2015. National conference of	13-15 Nov 2015.	Scientific Committee Chairperson
		Breast Imaging Society of India.	Bengaluru	Presented panel discussion on
		breast imaging society of india.	berigaluru	
				breast imaging: Radiology- Surgery
		AL CME L LILL 2015	LANE 2015 KMC	co-operation. Talk: MRI of Breast
		Alumni CME on Imaging Update: 2015	14 Nov 2015, KMC,	Talk: MRI of Breast
		IMSOS 2016: 2 nd Annual Conference of	Manipal 11-13 Mar 2016, Kochi	D A 1 1 1
			11-13 Mar 2016, Rochi	Paper: Approach to bone tumours
		the Indian Musculoskeletal Society		Organised CME on bone tumours: ORP meeting.
		35th Annual Conference IRIA Kerala	24-25 Mar 2016, Kannur	Talk: Breast imaging controversies.
		Chapter		
102	Sunilkumar S	ISRT Jammu & Kashmir CME	28 July 2015, Srinagar	Paper: Radiobiology concepts.
		CME on Advanced Radiotherapy	6 Sep 2015, MCC,	Paper: Improving RT treatment plan
		Techniques	Thalassery	from image acquisition to treatment
		'	,	levaluation.
		2 nd National Conference of ISRT	25-26 Sep 2015, Govt.	Paper: Biological effects of ionising
			MCH, Chandigarh	radiation on molecular and cellular
			,	levels.
103	Sunitha Kumari	ISRT National Conference	25-26 Sep 2015, Govt.	Paper: Role of CT simulator in
	UP		MCH, Chandigarh	radiotherapy treatment planning.
104	Susan Mathews	AROICON 2015	26-29 Nov 2015,	Poster: Imaging in gynaecologic
			Lucknow	brachytherapy: lessons learned.
105	Swapna R. Nath	National workshop on Parasitology & CME		Delegate
	,	on Parasitic diseases in India: Diagnosis and		
		Prevention		
		Workshop on Article writing for Medical	17-18 Sep 2015, SCTIMST,	Delegate
		Microbiologists	Thiruvananthapuram	
		CME : Audits in Infection Prevention and	5-6 Feb 2016, Breach	Delegate
		Control	Candy Hospital, Mumbai	
106	Thayal Singh	Workshop on Radiobiology and	19 Nov 2015, RCC	Delegates
	Elias, Zhenia	radiobiological modeling in RT		
	Gopalakrishnan,			
	Debjani Phani,			
	Shaiju VS, Sarin B,			
	Sharika V.Menon.			
	Sunithakumari UP,			
	Maheswari J,			
	Jayasree CG,			
	Sindhu SS,			
	Premeela Devi T,			
	Abhilash Sudh SS,			
	Lal K Nair,			
	Viddiul Latha PA,			
	Rajesh PR,			
	Sunil Kumar S			

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107	Thayal Singh	36 th Annual Conference of Association of	20-22 Nov 2015,	Delegates
	Elias, Zhenia	Medical Physicists of India	Thiruvananthapuram	
	Gopalakrishnan,			
	Debjani Phani,			
	Shaiju VS, Sarin B,			
	Sharika V.Menon,			
	Sunithakumari UP,			
	Maheswari J,			
	Jayasree CG,			
	Sindhu S S,			
	Premeela DeviT,			
	1			
	Abhilash Sudh SS,			
	Lal K Nair,			
	Viddiul Latha PA,			
	Rajesh PR,			
	Sunil Kumar S			
108	Unnikrishnan BS	28th Kerala Science Congress	28-30 Jan 2016,	Paper: Development of
			Malappuram	galactoxyloglucan- imatinib mesylate
				nanoparticles with sustained drug
				release in leukaemia therapy.
109	Varun Rajan	ICON 2015: 33rd Meeting of the Indian	4-6 Sep 2015 Coimbatore	Poster: A prospective study of NF-
107	vai di i i i i i i i	Cooperative Oncology Network	1-0 3cp 2013, Confibatore	
		Cooperative Offcology Network		KB expression in multiple myeloma
				and its correlation with response to
				bortezomib (Hypothesis).
		Indian Society of Medical and Paediatric	6-8 Dec 2015, Mumbai	Poster: Rhabdomyosarcoma in
		Oncology 2015 Meeting		adolescents and adults: Single centre
				experience.
110	Veena B Nair	28th Kerala Science Congress	28-30 Jan 2016,	Paper: Similar expression pattern
			Malappuram	of miRNA in cervical cancer cells
				irrespective of HPV infection type: a
				NGS approach.
111	Venugopal A	TRISZAC 2015: 31st Annual South zone	6-9 Aug 2015,	Moderator for three sessions
		and 39 th Annual conference of Kerala	Thiruvananthapuram	Talk: Local anaesthetic systemic
		Chapter of ISA	This availaria raparant	toxicity (LAST).
		ISAMIDCON 2016: Midterm CME and	13 Mar 2016, MOSC	Faculty
		PG Quest organized by ISA Kerala State	Medical College,	/
		Chapter	Kolencherry	
112	Venugopal M	AROI State Chapter	30 Jan 2016, Kochi	Talk: Imaging in carcinoma larynx.
1 1 2	Veriugopai i i	CME programme on Breast Cancer	6 Feb 2016, Ambillikai,	Talk: Breast imaging.
		Management	Tamil Nadu	Tana Di Cast ii iagii ig.
		KREST PG Teaching Programme	12 Feb 2016, Kochi	TALK: Imaging in GIT malignancy.
		National Conference on breast cancer	13-14 Feb 2016, Rocin	Talk: Recent advances in breast
		organized by the Department of	15 1 1 1 CD 2010, 1111133UI	
				imaging.
		Radiotherapy, Govt. Medical College,		
112	\ \(\) \(\	Thrissur and AROI, Kerala Chapter	10.4 2015 75411	
113	Vijaya A K, Jaya	Competition Program Oncology Nurses	10 Apr 2015,TMH	Delegates
	TS	Association of India	Mumbai	
114	Viji S. Pillai	AORA 2015: Regional Anaesthesia	23-25 Sep 2015, Bangalore	Poster: Bilateral subcostal transversus
		Conference		abdominis plane block with IV
				sedation for feeding jujunostomy.
		In house BLS and ACLS Training for	2-4 Dec 2015, RCC	Organiser
		Doctors		

115	Vishnu V	National Workshop on Refining Skills in	8-10 Apr 2015, RCC	Talk: 1.Using online databases. 2.
		Oncology Nursing Research		Citation styles with special reference
				to APA style and Vancouver style.
		National Seminar on Teaching Role of	21-22 Aug 2015, Thrissur	Talk: Teacher librarian in the IT era.
		Librarians		
		National Library Week: Librarians Meet	18 Nov 2015, Vikram	Delegate
			Sarabhai Space Centre,	
			Thiruvananthapuram	
		Health Infoscape: Health information for	12 Mar 2016,	Talk: Cancer Information on the
		the Librarians: Meeting of Kerala Library	Thiruvananthapuram	Internet: trusted resources for the
		Association		public
116	Zhenia	Equal Estro AROI Teaching Course	6-9 Dec 2015, New Delhi	Delegates
	Gopalakrishnan,			
	Sharika V. Menon			

ONGOING RESEARCH PROJECTS

EXTRAMURAL

SI.	Principal	Project Title	Funded by	Status
No.	Investigator	BREAST	,	
1	Arun Peter Mathew	Effect of cancer associated fibroblasts on	Dept of Atomic Energy- Board of	Ongoing
-		BRCA1 +/_ breast cancer cells	Studies in Nuclear Sciences (BRNS)	- 1.6-1.6
2	Arun Peter Mathew	Analysis of sweat proteotome from breast	AYUSH	Ongoing
2	Arun reter matnew	, ,	ATOSH	Origoirig
_	D C N4	cancer patients		
3	Beela Sarah Mathew	Adjuvant Tamoxifen in breast cancer Longer	Oxford University	Ongoing
		Against Shorter (ATLAS).		
4	Beela Sarah Mathew	Risk factors for breast cancer in India: an INDOX	Oxford University	Completed
		case-control study.		
5	Ramadas K	Randomised controlled evaluation of clinical		
		early detection in the control of breast cancer in	IARC, Lyon, France	Ongoing
		low-and medium- resource settings.	,	
	Initiated in 2006; Total p	articipants 146,602;Total Screened- 70,733; Breast can	ncers identified: Intervention arm - 195	, Control arm
	150. 3rd round of screeni	ng is ongoing.		
		CHEST & GASTRO-INTESTIN		
6	Chandramohan K	Resistance in colorectal cancer: Tumor stem like	,	Ongoing
		cells as unique targets in residual disease	Govt. of India	
_		GYNAEC & GENITO-URINAI	RY	
7	Rema P	MTA mediated invasion of stem like cells:	Dept. of Biotechnology, Govt. of India	a Ongoing
		implications in endometrial cancer.		
0	D:-:- T\/	HEAD & NECK	Kanala Ctata Canadi Fan Calana	Onneine
8	Bipin T.Varghese	Development of an indigenous voice prosthesis	Kerala State Council For Science,	Ongoing
		for rehabilitation of laryngectomees and its	Technology & Environment.	
	D I C I (clinical evaluation	1101 111 1	
9	Paul Sebastian	Phase 2, double – blind, placebo controlled		Completed
		randomized study of sulindac, a pan - COX	Centre, New York	
10	D ICI "	inhibitor in oral premalignant lesions.		
10	Paul Sebastian	Phase 3, double blind, placebo controlled study	National Cancer Centre, Singapore	Ongoing
		of post-operative adjuvant concurrent chemo-		
		radiotherapy with or without nimotuzumab		
		for stage 3/4 head and neck squamous cell		
		carcinoma.		
	Ramadas K	Estimation of tobacco attributable mortality in Kerala	. IARC, Lyon, France	Ongoing
12	Ramadas K	Role of human papillomavirus infection and	IARC, Lyon, France	Ongoing
		other co-factors in the aetiology of head and		
	050	neck cancer in Europe and India (HPV-AHEAD).		
	850 patients have been	recruited into the study. Subsites recruited include oroph	harynx, oral cavity, larynx and hybobhar	ynx.
13	Ramachandran K	IMAGEOLOGY Development of CAD system for mammograms	Department of Electronics and	Ongoing
را	Namachandran N	Development of CAD system for maining fams	Information Technology	Origoning
		PATHOLOGY	Information rechnology	
1.4	A '11 NA 11		VCCCTE C + CV	
14	Anitha Mathews	Galectin-3 Mediated Stem cell regulation in Triple	RSCSTE, Govt. of Kerala	Ongoing
		Negative Breast Cancers.		
	Sample collection and ex	perimental work of this project is on progress.		
		PAEDIATRIC ONCOLO	GY	
15	Kusumakumary P	Multiplex Profiling of chromosomal	Kerala State Council For Science,	Ongoing
1)	Tasarriakarriai y i	translocations, mutations and MDR in leukemia	Technology & Environment.	011601118
			rechinology & Environment.	
		cells and development of biomarkers for		
		targeted personalized medicine.		
6	Alovamma Mathour	CANCER EPIDEMIOLOGY Population Based Cancer Registry,	ICMR, Govt. of India	Ongoing
16	Aleyamma Mathew	Thiruvananthapuram.	ICLIN, GOVE OF HIGH	Ongoing

	The average annual crude (CR) cancer incidence rates (per 10 ⁵) in Thiruvananth	apuram district is 172.2 and 167.1 per	100,000 males
	and females respectively for	the year 2014 in India. Lung (CR: 23.4), oral cavity	(CR: 18) and prostate (CR:13) are the fi	rst three leading
	cancer sites among males. L	Breast (CR: 48), thyroid (CR: 18) and cervix uteri (CR	: 10) are the corresponding cancer sites	among females.
17	Paul Sebastian	Pattern of care and survival studies in cancers of	ICMR, Govt. of India	Ongoing
	C	cervix, female breast and head and neck.	0120 6 1 1 2570 :	111012
		records with updated follow-up details on a total of	9130 female breast, 2578 cervix uteri o	ind 14,063
18		are available since the period 2006. Hospital-based cancer registry	Indian Council of Medical Research	Ongoing
10		nagnitude, patterns of cancer, stage at diagnosis and		
		d at RCC. HBCR 2014 data entry has been continui		,
		CANCER RESEARCH		
19	Kannan S	Biology of NFκB and STAT3 Transcription Factors		Ongoing
	Onal cancer cell lines and na	in Oral Carcinogenesis ormal human keratinocyte cell line (HaCaT) were pro	Technology & Environment	u. Daubling times
		udy was calculated.All oral cancer cell lines are subjec		
		e. Results showed that, all oral cancer cell line are HP		
		e. Nesults showed triat, all oral carrier cell life are Fir T3 transcription factors were measured by qRT-PCR ar		
		logy showed that EGFR has the significant role in the		
		B and STAT3 signalling pathways revealed the preser		
20	Kannan S	MicroRNA expression pattern in carcinoma of the	Dept of Atomic Energy- Board of	Ongoing
		uterine cervix in relation to HPV infection status		
	Present study standardized	a known sensitive HPV DNA test based on Polymer		detect almost all
		HPV infection. MicroRNA (miRNA) profiling through		
		distinct miRNA expression pattern compared to Hi		
	different HPV positive cervic	al cancer showed a distinct pattern however pathway	analysis showed that these altered miRi	NAs are involved
	in similar signaling pathways	s suggesting the carcinogenic mechanism may be simi	lar irrespective of HPV infection types.m	iRNA microarray
		deregulation of a subset of miRNAs cervical cancer		
		ly altered miRNAs were validated through quantita		
2.1		I. Further studies on the biological significance of this		
21	Sujathan K	CerviSCAN: Image analysis for reliable and cost		Ongoing
	T I	effective cancer detection.	Sweden.	61 1 1
		ct of RCC, CDAC-TVM and Uppsala University, Swed		
		address remaining issues and to adjust to requiremer zed Pap smear screening into its final goal of accessi		
		will evaluate the possibility of using Fourier ptychogr		
		e cell nuclei. Sample collection for this work is on pro		when extracting
22	Sujathan K	Study of the significance of DNA replication	DBT,	Ongoing
		licensing proteins as markers of lung cancer and	Govt .of India	
		its precursors.		
		technique for the routine laboratory processing of spu		
		al changes.The cell block technique will be useful for η		
		acted from these cells which can be used for mutatio		
		as in monolayered smears and characterized malign		lication licensing
22	proteins. Identification of dif Sujathan K	ferential diagnostic markers of lung adenocarcinomo	in sputum samples is in progress.	Ongoing
23	Sujatriari K	Evaluation of spice extracts for anticancer effect in relation to telomerase activity.	Spices Board	Ongoing
	It is a collaborative project of	Infrieduor to teromerase activity. Indian Institute of Spices Research and RCC. Identifica	tion of telomerase inhibitors in major spice	a bhytochemicals
		luation of the cytotoxicity, growth kinetics telomeras		
		e phytochemicals is the main objective of the projec		
		cancer cells on a dose dependent manner but it d		
	positive breast cancer cells.	some on a cost coperation marrier but it di	and any eyestomenty in English neg	5 11012
24	Lakshmi S	Isolation and characterization of primary tumor	Amrita School of Biotechnology	Ongoing
		cells for screening of anacardic acid derivatives		
		on the regulation of MMP and EGF pathways.		
		carried out for development of cell line from breast	tumors. Effect of anacardic acid was evo	aluated in breast
1	cancer cell lines for cytotoxi	city and apoptosis.		

p-glycoprotein expression in ovarian cancer in relation to treatment response Molecular genetic basis of resistance to imatinib treatment in CML COMMUNITY ONCOLOGY 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. Ramani S.Wesley Cervical cancer screening using VIA, VILI for women in the control area of Trivandrum breast cancer screening project. As part of the community based cluster randomized controlled trial in connection with the Trivandrum cervical cancer screening using VIA, VILI is being conducted in the control group of the study areas. Gigi Thomas Search for predictive genetic markers of high-risk malignant transformation potential in oral leukoplakia patients. Gigi Thomas Gigi Thomas A multi-centre phase II randomised double-blind placebo efficacy and safety of Curcumin in oral pept. Biotechnology, premalignant lesions Studies in Nuclear State Council Technology & Environal Environal State Council Technology and Environal Placebo efficacy and safety of Curcumin in oral Dept. Biotechnology, premalignant lesions Studies in Nuclear State Council Technology & Environal State Council Technology and Environal Placebo efficacy and safety of Curcumin in oral Dept. Biotechnology, premalignant lesions Stidies in Nuclear State Council Technology and Environal Placebo efficacy and safety of Curcumin in oral Dept. Biotechnology, premalignant lesions Stidies in Nuclear State Council Technology and Environal Placebo efficacy and safety of Curcumin in oral Dept. Biotechnology, premalignant lesions NATURAL BACKGROUND RADIATION CANCER REGISTRY NATURAL Background Research Programmes on Health effects of natural radiation in Health Research Formalismes on Health effects of natural radiation in	for Science, nament Bill Gates Ongoing Ongoing Breast Cancer Screening For Science, onment, Govt.
Molecular genetic basis of resistance to imatinib treatment in CML Technology & Enviro	Bill Gates Ongoing Ongoing Breast Cancer Screening For Science, onment, Govt.
Technology & Environment of Community Oncology 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. Ramani S. Wesley Cervical cancer screening using VIA, VILI for women in the control area of Trivandrum breast cancer screening project. As part of the community based cluster randomized controlled trial in connection with the Trivandrum cervical cancer screening using VIA, VILI is being conducted in the control group of the study areas. Gigi Thomas Search for predictive genetic markers of high-risk malignant transformation potential in oral leukoplakia patients. A multi-centre phase II randomised double-blind placebo efficacy and safety of Curcumin in oral pept. Biotechnology, premalignant lesions Estimation of tobacco attributable mortality in Kerala NATURAL BACKGROUND RADIATION CANCER REGISTRY Health Research Forgrammes on Health effects of natural radiation in	Bill Gates Ongoing Ongoing Breast Cancer Screening For Science, onment, Govt.
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. Ramani S.Wesley Cervical cancer screening using VIA, VILI for women in the control area of Trivandrum breast cancer screening project. As part of the community based cluster randomized controlled trial in connection with the Trivandrum cervical cancer screening using VIA, VILI is being conducted in the control group of the study areas. Search for predictive genetic markers of high-risk kerala State Council malignant transformation potential in oral leukoplakia patients. Gigi Thomas Gigi Thomas A multi-centre phase II randomised double-blind placebo efficacy and safety of Curcumin in oral pept. Biotechnology, premalignant lesions Gigi Thomas Estimation of tobacco attributable mortality in Kerala NATURAL BACKGROUND RADIATION CANCER REGISTRY India- Japan Co-operative Research Programmes on Health effects of natural radiation in Health Research Fo	Bill Gates Ongoing Ongoing Breast Cancer Screening For Science, onment, Govt.
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. Ramani S.Wesley Cervical cancer screening using VIA,VILI for women in the control area of Trivandrum breast cancer screening project. As part of the community based cluster randomized controlled trial in connection with the Trivandrum cervical cancer screening using VIA, VILI is being conducted in the control group of the study areas. Search for predictive genetic markers of high-risk malignant transformation potential in oral leukoplakia patients. Gigi Thomas Gigi Thomas A multi-centre phase II randomised double-blind placebo efficacy and safety of Curcumin in oral plept. Biotechnology, premalignant lesions Gigi Thomas Gigi Thomas A multi-centre phase II randomised mortality in Kerala NATURAL BACKGROUND RADIATION CANCER REGISTRY India- Japan Co-operative Research Programmes on Health effects of natural radiation in Health Research Fo	Ongoing Breast Cancer Screening For Science, onment, Govt.
precursors by visual inspection with Lugol's iodine (VILI), visual inspection with acetic acid (VIA) and magnified VIA (VIAM) in Kerala, India. Ramani S.Wesley Cervical cancer screening using VIA,VILI for women in the control area of Trivandrum breast cancer screening project. As part of the community based cluster randomized controlled trial in connection with the Trivandrum cervical cancer screening using VIA, VILI is being conducted in the control group of the study areas. Search for predictive genetic markers of high-risk malignant transformation potential in oral leukoplakia patients. Gigi Thomas A multi-centre phase II randomised double-blind placebo efficacy and safety of Curcumin in oral plept. Biotechnology, premalignant lesions Estimation of tobacco attributable mortality in Kerala NATURAL BACKGROUND RADIATION CANCER REGISTRY Health Research Fo	Ongoing Breast Cancer Screening For Science, onment, Govt.
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Paul Sebastian India- Japan Co-operative Research Programmes on Health effects of natural radiation in Health Research Fc	
on Health effects of natural radiation in Health Research Fo	
	undation, Japan Ongo
Karunagapally, Kerala The project is continuing with the aim of estimating the health effects of natural radiation in High Bo	
covering the cohort of 4 lakhs population. Raghu Ram K. Nair Natural Background Radiation Registry (NBRR): Health Research Foundation.	ndation, Japan Ongoin
Individual & ingested dose estimation	
Diet samples were collected from different areas in High Background Radiation and Normal Backgroun	a Radiation areas. I nese ar
ashed and being analysed for finding out the levels of Th,U and K	
Radiation Epidemiologic studies, Karunagapally, Health Research Fo	undation, Japan Ongoing
Kerala, India.	
Follow up of the residents of HBRA. Migration, Mortality and Cancer Incidence survey undertaken coveri	ng 4 lakhs population perio
Paul Sebastian Prevalence of cataract in HBRA, Karunagapally Health Research Fo	undation, Japan Ongo
The project aims to evaluate the prevalence of cataract and lens opacity among the residents of hig	n and low background are
females have undergone eye examinations using slit lamp by ophthalmologist and analysis is ongoing.	
Paul Sebastian Prevalence of Atherosclerosis in HBRA, Health Research Fo	undation, Japan Ongo
Karunagapally	,,,
Biochemical investigations (350 Nos.) and IMT of carotid arteries in the residents of radiation area	ı for assessing the prevale
atherosclerosis undertaken. Analysis ongoing.	
37 Hariharan S Cytogenetic studies on the effects of chronic Health Research Fou	ndation, Japan Ongoing
low level radiation in the residents of high back-	
ground radiation areas (HBRA) in Kerala, India.	
Unstable chromosome abnormalities were analyzed in subjects living in HBR areas of Karunagapa	lly taluk The abnormalitie
compared with that of normal areas. We found that there is increases of abnormalities were noted in	
	THE FIBRA. THERE IS UIT USSU
between cumulative dose and chromosomal abnormalities.	ndation lange Ongoin
88 Hariharan S Search for a molecular signature of thyroid Health Research Fou	ndation, Japan Ongoing
tumours occurring in people living in	
high background radiation area (HBRA),	
riigii backgi bana radiation area (11brv 1),	
Karunagapally, Kerala, India.	
Karunagapally, Kerala, India.	g in HBRA and normal are
Karunagapally, Kerala, India. The main objective of the study is to compare the molecular signatures of ca thyroid patients inhabiting.	
Karunagapally, Kerala, India.	

OTHER FUNDED PROJECTS

SI. No.	Principal Investigator	Project title	Funded by	Status
		CANCER EPIDEMIOLOGY		
I	Kalavathy MC	Cancer Control Programme in Upputhara Grama Panchayat, Idukki district.	Upputhara Grama Panchayat	Ongoing
	Four detection programmes were co 2 breast cancers and 2 cervical can	nducted in different areas of the Panchayat, screer cers.	ned 403 persons detected 2	oral cancers,
2	Kalavathy MC	Cervical Cancer Control Programme in Pathanapuram Grama Panchayat	Pathanapuram Grama Panchayat	Ongoing
		re conducted in Pathanapuram PHC and 2 other a letected 1 cervical, I Thyroid, I breast and 2 oral co		ng the service
3	Kalavathy MC	Hospital Based Cervical Cancer Screening Programmes.	Govt. Women & Children Hospital and Peroorkada Govt. Hospital, Thiruvananthapuram	Ongoing
	These programmes are ongoing sind Govt. Hospital, Peroorkkada.	ce 2008. Regular Pap-smear clinics twice a week i	n W&C Hospital and once i	n a month in
		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	Sreekumar C	Prevention and control of cancer among the tribal population of Kerala state.	Kerala State Development Corporation for SC & ST	Ongoing
6	Sreekumar C	Cancer control programmes in Palakkad district.	Kerala State Development Corporation for SC & ST	Completed
	NATURAL E	BACKGROUND RADIATION CANCER REGIS	STRY	l
7	Jayalekshmi P	Prevention & cancer control among scheduled caste people	Jilla Panchayat, Kollam	Ongoing
	Camp conducted in colonies of Sched conditions of oral cavity 156 and ce	uled caste people. In 62 camps, 2047 persons exam rvix 19.	ined:cancer detected 5 and p	ore-cancerous
8	Jayalekshmi P	Cancer detection and cancer patients service projects	Grama Block Panchayats Karunagapally Taluk	Ongoing
		welfare programmes undertaken as part of the ayats benefitted in motivating the people for part etection		
9	Paul Sebastian	District Cancer Registry	ICMR, Govt. of India	Ongoing
		entire population of Kollam District. Registry aims to & 1510 mortality cases registered during 2015.That they are the state of the sta		

PHARMA/INDUSTRY SPONSORED

SI.	Principal	Project title	Funded by	Status
No.	Investigator	BREAST		
1	Beela Sarah Mathew	ALTTO (Adjuvant Lapatinib and/or Trastuzumab	Glaxo Smith Kline	9 patients randomized,
	Beela Sararri lacrevv	Treatment Optimisation) study. A randomised, multi-	Clarko Sirilar Palific	7 patients are on
		centre, open-label, phase III study of adjuvant lapatinib,		follow up and 2
		trastuzumab, their sequence and their combination		patients died
		in patients with HER2/ErbB2 positive primary breast		
		cancer.		
2	Beela Sarah Mathew	A Randomized, Open-Label, Multicenter, Phase 3	Johnson & Johnson	Follow-up phase
		Study of Epoetin Alfa plus Standard Supportive Care		8 patients randomized,
		versus Standard Supportive Care in Anemic Patients		one patient on follow
		with Metastatic Breast Cancer receiving Standard		up and 7 patients died
		Chemotherapy.		·
3	Rajeev KR	A Phase II Open-label Randomized Study of a	Sanofi	Ongoing
		Fixed-dose Combination of Capecitabine and		
		Cyclophosphamide Administered at Different		
		Doses/Regimens with Metronomic Schedule in		
		Patients with Metastatic Breast Cancer.		
4		CHEST & GASTRO-INTESTINAL		
4	Sajeed A	BEVZ92-A-01-13: Open label randomized bio-	mAbxience Uruguay	Ongoing
		equivalence study to evaluate the pharmacokinetic		
		(PK) and safety profile of BevacizumabBiosimilar		
		(BEVZ92) in combination with FOLFOX or FOLFIRI		
		versus Bevacizumab (AVASTIN*) in combination		
		with FOLFOX or FOLFIR1 as first-line treatment in		
5	Sajeed A	patients with metastatic colorectal cancer (mCRC). Aspirin for Dukes C and High Risk Dukes B	Singapore Clinical	Ongoing
)	Jajeeu A	Colorectal Cancers	Research Institute	Origonia
		An International, Multi-centre, Double Blind.	inesearch institute	
		Randomised Placebo Controlled Phase III Trial		
6	Sivanandan CD	Multicentric, randomised, double blind, phase III trial	Boehringer Ingelheim	Completed. Analysis
		to investigate the efficacy and safety of oral BIBF		results awaited
		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.		
7	Sivanandan CD	Phase II study of Cancer patients failing prior therapies	NATCO pharma Limited	Ongoing
		(GIST, NSCLC, Colon & pancreatic cancer		
8	Sivanandan CD	BM100-CC-03-1-01:A Double blind, Randomized,		Ongoing
		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.		
0	layan makash DC	GYNAEC & GENITO-URINARY		Ongoing
9	Jayaprakash PG	Multicentre, randomized, open label, active—controlled,		Ongoing
		2 parallel groups, phase 3 study to compare efficacy		
		and safety 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.	<u> </u>	

Ongoing	Roche	safety of RO5185426 in patients with metastatic	Jayaprakash PG	10
Ongoing	Ferring Pharmaceuticals	melanoma. Akash PG An open-label, single-arm, multicenter, phase IV	Jayaprakash PG	11
	Pvt. Ltd	Trial to evaluate the safety of Firmagon in androger		
		deprivation therapy in Indian patients diagnosed with		
		advanced hormone –dependent prostate cancer		
Ongoing	Sanofi Aventis		Francis V. James	12
		phase 4 clinical trial to evaluate safety of cabazitaxe		
		(Jevtana) in combination with oral prednisone(or pred-		
		nisolone) for the treatment of patient with metastatic		
		hormone refractory prostate cancer previously treated		
		with docetaxel - containing regimen.		
	E & SOFT TISSUE	HAEMATOLOGICAL, LYMPHORETICULAR, BON		
Ongoing	Bristol Myers Squibb	a N A phase II study of dasatinib therapy in children	Geetha N	13
		and adolescents with newly diagnosed chronic		
		phase chronic myelogenous leukemia or with Ph+		
		leukemias resistant or intolerant to imatinib.		
Ongoing	Novartis	h G. Nair A randomized, controlled, double-blind	Sreejith G. Nair	14
		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		
		HEAD & NECK		
Recruitment closed,	Novartis	n Kumar R A phase II, multicenter, randomized, double	Rejnish Kumar R	15
study is ongoing.		blind, placebo controlled study novartis ongoing,		
		recruitment open assessing the efficacy of buparlisib		
		(bkm 20) plus paclitaxel vs. placebo plus paclitaxel		
		in patients with platinum pre-treated recurrent or		
		metastatic head and neck squamous cell carcinoma.		
Ongoing	Cell Science	n Kumar R A phase III, open label, randomised, multi-centre	Rejnish Kumar R	16
		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.		
vere randomized and	were screened of which 14	l'	Study has closed recr	
ere i	were screened of which 14	has closed recruitment and is on the follow-up phase. A total of 16 patients	Study has closed recr	

IN-HOUSE PROJECTS

SI. No.	Principal Investigator	Project title	Status
		ANAESTHESIOLOGY	
I	Rachel Cherian Koshy	A prospective observational study on post-operative delirium and its asso: with	Ongoing
		intraoperative blood pressure fluctuation in elderly undergoing oncosurgery.	
2	Rachel Cherian Koshy	Post-operative pain in oncosurgical cases: A prospective observational study.	
3	Mary Thomas	homas The Effect of preoperative anxiety and depression on poster operative pain in breast cancer surgery.	
4	MaryThomas	Evaluation of effectiveness of modified PEC II block for post operative pain relief after breast surgery.	Ongoing
5	MaryThomas	Validation of height to thyromental distance to predict difficult intubation and compare with other predictors of difficult intubation.	Completed
6	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
7	Venugopal A	A comparative study of lignocaine and ondensetron as pretreatment to prevent pain on injection of propofol.	Completed
8	Venugopal A	Direct laryngoscopy versus video laryngoscopy for expected difficult tracheal intubation: A prospective observational study	
9	Mallika Balakrishnan	Incidence and predictors of difficult and impossible mask ventilation.	Ongoing
10	Mallika Balakrishnan	Effect of pre-operative warming on post indication core temperature and incidence of post-operative shivering in patients undergoing general anaesthesia.	Ongoing
П	Viji S. Pillai	Setting up of Malignant Hyperthermia Help Centre at RCC, TVPM.	Ongoing
12	Viji S. Pillai	A prospective observational study on relevance of routine pre operative investigations.	Ongoing
13	Sudha P	Routine TSH estimation in preanaesthetic workup for cancer surgeries-identifying the relevance.	Ongoing
14	Sudha P	Comparison of total intravenous anaesthesia using propofol and inhalational anaesthesia using isoflurane and nitrous oxide for controlled hypotension in head and neck oncosurgeries.	
15	Sudha P	A prospective observational study on the predictability of postoperative nausea and vomiting in patients undergoing oncosurgeries under general anaesthesia.	Ongoing
16	Subha R	Perioperative transfusion of blood and blood products in patients undergoing cancer surgery: a prospective analysis.	Ongoing
17	Bhagyalekshmi R	A prospective observational study to identify the incidence and predictors of major perioperative adverse cardiovascular events in major oncological surgeries.	Ongoing
18	Bhagyalekshmi R	Retrospective Audit to identify that predictive value of preoperative lab testing and pre-anaesthetic consultation in elderly patients undergoing major oncological surgeries.	Ongoing
	·	BREAST & CENTRAL NERVOUS SYSTEM	
19	Iqbal Ahamed M	Correlation of Ki67 Index with clinical and pathological variables in breast cancer.	Ongoing
20	Beela Sarah Mathew	Outcomes of the Treatment of Stage I-III HER2 Positive Breast Cancers at Regional Cancer Centre, Thiruvananthapuram.	Ongoing
21	Beela Sarah Mathew	Impact of subventricular zone (SVZ) irradiation on outcome of patients with glioblastoma multiforme.	Completed
22	Beela Sarah Mathew	Comparison of outcome after breast conservation therapy and modified radical mastectomy in women with pTI-2, N0 triple negative breast cancer: a retrospective study.	Completed
23	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

24	Arun Peter Mathew	A randomized controlled trial comparing ultrasonic dissection with electrocautery	Ongoing
2.5	Madhu Muralee	for axillary dissection.	
25	Madnu Muralee	Validation of "NEO! ADJUVANT" and study on the incidence and predictors of cCR and	Ongoing
27	A 1 A :	pCR in patients undergoing surgery for breast cancer after neoadjuvant chemotherapy.	
26	Asha Arjunan	Observational analysis of clinical profile and treatment outcome of newly diagnosed GBM patients.	Ongoing
27	Kurian Cherian	Quality of life post breast cancer surgery comparison between BCS and MRM.	Ongoing
		CHEST & GASTRO-INTESTINAL	0 0
28	Igbal Ahamed M	Quality of life after gastrectomy for gastric carcinoma.	Ongoing
29	Chandramohan K	Immunological assessment in laparoscopy versus open colorectal surgery.	Ongoing
30	Chandramohan K	Translation and Validation of EORTC QLQ OES 18 and OG25Malayalam version in	Ongoing
		esophageal cancers.	
31	Sivanandan CD	3D CRT as adjuvant treatment for gastroesophageal junction and stomach cancer:	Completed
		an observational study on the toxicity and dosimetric comparison of 3DCRT and	
		IMRT plans.	
		mpleted planned RT: 100%; Completed planned chemo : 40%. Median followup 17m. Overall s	
	at 6m and 75% at 1 year	: IMRT results in better PTV coverage and lower liver heart and bowel dose, but higher dose to	kidneys and
	spinal cord.		
32	Sivanandan CD	Retrospective comparison of post operative adjuvant chemo-radiation versus	Ongoing
		peri-operative chemotherapy protocol in adenocarcinoma of stomach and gastro-	
		esophageal junction in terms of clinical outcome.	
33	Sivanandan CD	Short course preoperative radiotherapy for operable adenocarcinoma rectum: A	Ongoing
		prospective observational study.	0 0
34	Kurian Cherian	Post operative morbidity and mortality in rectal cancer: A prospective descriptive	Ongoing
		study in a tertiary cancer centre.	0 0
35	Madhu Muralee	Prevalence and predictors of apical lymph node involvement in locally advanced	Ongoing
))	I ladi di l'idi alee	rectal cancers in the era of combined modality therapy.	Origoling
36	Madhu Muralee	Prevalence and predictors of apical lymphnode involvement in locally advanced	Ongoing
		rectal cancers in the era of neoadjuvant chemoradiotherapy.	0 0
37	Sajeed A	Treatment outcome of limited stage small cell lung carcinoma patients treated with	Ongoing
		radical chemoradiotherapy: prospective observational study.	- 1.0-1.0
38	Sajeed A	Analysis of toxicity, compliance and outcome of definitive chemoradiation in squamous	Completed
50	Jajeca / C	cell carcinoma of the esophagus: a prospective observational study (MD Thesis)	Completed
	D.:: 1. 20 C. 11:		. 03.00/
		to RT: 100%; Compliance to Chemo: 73%; Median followup: 8m; Overall survival at 6m and 1y	r is 93.9%
	and 66.7% respectively. In	ımor is prognostic factor for overall survival.	
39	Roshni S	Evaluation of treatment outcome and acute toxicity in patients undergoing adjuvant	Ongoing
39	Roshni S	Evaluation of treatment outcome and acute toxicity in patients undergoing adjuvant therapy in ductal carcinoma of pancreas.	Ongoing Accrued 8
		therapy in ductal carcinoma of pancreas.	Accrued 8 pts
	Roshni S	therapy in ductal carcinoma of pancreas. Demographic profile of lung cancer.	Accrued 8 pts Ongoing
	Roshni S To study the demographic	therapy in ductal carcinoma of pancreas. Demographic profile of lung cancer. and clinic pathological profile and Lung cancer patients registering in thoracic oncology services.	Accrued 8 pts Ongoing
	Roshni S To study the demographic	therapy in ductal carcinoma of pancreas. Demographic profile of lung cancer.	Accrued 8 pts Ongoing
	Roshni S To study the demographic	therapy in ductal carcinoma of pancreas. Demographic profile of lung cancer: and clinic pathological profile and Lung cancer patients registering in thoracic oncology services. C). This is performed as prospective observational study.	Accrued 8 pts Ongoing
40	Roshni S To study the demographic referral career centre (RC	therapy in ductal carcinoma of pancreas. Demographic profile of lung cancer: and clinic pathological profile and Lung cancer patients registering in thoracic oncology services. C). This is performed as prospective observational study. GYNAEC & GENITO-URINARY	Accrued 8 pts Ongoing e of tertiary
40	Roshni S To study the demographic	therapy in ductal carcinoma of pancreas. Demographic profile of lung cancer: and clinic pathological profile and Lung cancer patients registering in thoracic oncology service. C). This is performed as prospective observational study. GYNAEC & GENITO-URINARY Inflammatory markers in Cancer cervix	Accrued 8 pts Ongoing e of tertiary Ongoing
40	Roshni S To study the demographic referral career centre (RC Francis V. James	therapy in ductal carcinoma of pancreas. Demographic profile of lung cancer: and clinic pathological profile and Lung cancer patients registering in thoracic oncology service. C). This is performed as prospective observational study. GYNAEC & GENITO-URINARY Inflammatory markers in Cancer cervix Validation of laparoscopy based score for predicting surgical outcome in patients	Accrued 8 pts Ongoing e of tertiary
40 41 42	Roshni S To study the demographic referral career centre (RC Francis V. James Rema P	therapy in ductal carcinoma of pancreas. Demographic profile of lung cancer: and clinic pathological profile and Lung cancer patients registering in thoracic oncology service. C). This is performed as prospective observational study. GYNAEC & GENITO-URINARY Inflammatory markers in Cancer cervix	Accrued 8 pts Ongoing e of tertiary Ongoing Ongoing
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39 40 41 42 43 44 45	Roshni S To study the demographic referral career centre (RC Francis V. James Rema P Rema P Rema P Rema P Rema P	therapy in ductal carcinoma of pancreas. Demographic profile of lung cancer: and clinic pathological profile and Lung cancer patients registering in thoracic oncology service. C). This is performed as prospective observational study. GYNAEC & GENITO-URINARY Inflammatory markers in Cancer cervix Validation of laparoscopy based score for predicting surgical outcome in patients undergoing interval debulking for advanced ovarian carcinoma. Study of postoperative morbidity after cytoreductive surgery for ovarian cancer. Pelvic exenterations for recurrent cancer cervix: Survival outcome and morbidity. The role of clinical evaluation, CT scan and CA 125 in predicting optimal cytoreduction in advanced ovarian cancer/primary peritoneal cancer/fallopian tube cancer patients undergoing interval cytoreduction.	Accrued 8 pts Ongoing e of tertiary Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing
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		HAEMATOLOGICAL & LYMPHORETICULAR		
47	Geetha N	The prognostic significance of absolute lymphocyte and monocyte count and	Ongoing	
		the lymhocyte to monocyte ratio at diagnosis in patients with classical Hodgkin's		
		lymphoma: A follow up study.		
48	Geetha N	A prospective study of NF-KB expression in multiple myeloma and its correlation	Ongoing	
		with response to bortezomib.	01.808	
49	Geetha N	The prognostic significance of absolute lymphocyte and monocyte count and the	Ongoing	
17	Geetra i v	lymhocyte to monocyte ratio at diagnosis in patients with non Hodgkin's lymphoma:	Origonia	
		A follow up study.		
50	Geetha N	P-glycoprotein expression in newly diagnosed Acute myeloid leukemia in adults and	Ongoing	
50	Geetria i v	its impact on treatment outcome	Origoria	
51	Geetha N	The prognostic significance myeloid antigen coexpression in adult acute	Ongoing	
<i>J</i> I	Geetria i v		Origoria	
52	Geetha N	lymphoblastic leukemia: A follow up study. FLT3 mutation and its prognostic significance in newly diagnosed Acute myeloid	Ongoing	
32	Geetra iv		Origoning	
53	Geetha N	leukemia in adult (Prospective study). Correlation of BCR-ABL transcript levels at 3 rd month with subsequent	Onzainz	
33	Geetha N		Ongoing	
		cytogenetic response in chronic myeloid leukemia patient in chronic phase treated		
<u> </u>		with imatinib negative.		
54	Geetha N	Cytogenetic abnormalities and risk stratification of multiple myeloma patients by	Ongoing	
		'FISH' technique.		
		HEAD & NECK		
<u>55</u>	Paul Sebastian	Morbidity Associated with neck dissection in oral cavity cancers.	Ongoing	
56	Paul Sebastian	Systemic inflammatory prognostic markers of oral squamous cell carcinoma.	Ongoing	
57	Ramadas K	Frequency of human papillomavirus nfection in	Ongoing	
	oral squamous cell carcinoma and its clinical significance: A retrospective study.			
		nave been included and is being followed up so far.		
58	Rejnish Kumar R	Molecular dynamics of epstein barr virus in carcinoma nasopharynx.	Ongoing	
	15 patients recruited into the			
59	Rejnish Kumar R	Prospective evaluation of dosimetric parameters, acute toxicities and quality of life	Ongoing	
		in patients undergoing IMRT for carcinoma nasopharynx.		
		patients included in the study. Dosimetric analysis and followup is going on.		
60	Kainickal CT	Prospective evaluation of toxicities and quality of life in patients undergoing post-op	Ongoing	
		chemoradiation for head and neck cancers.		
	23 patients have been inclu	ded into the study.		
61	ShajiThomas	Prospective evaluation of transoral laser in T1,T2 Malignancies and potentially	Ongoing	
		malignant lesion.		
62	Shaji Thomas	A prospective observational study of outcome of supraclavicular flap in	Ongoing	
		reconstruction of head and neck oncologic defects.		
63	Bipin T. Varghese	Prospective randomized studies comparing the efficacy of watch and wait policy with	Ongoing	
		neck dissection in clinical superficial tongue squamous cell cancers with N0 status.		
64	Bipin T. Varghese	Matched pair analysis of outcomes of conventional versus microvascular	Ongoing	
		reconstruction in head and neck cancers.		
65	Bipin T. Varghese	Salivary neoplasms: therapeutic and functional outcome : a retrospective study	Ongoing	
66	Balagopal PG	Pattern of post-operative infection among head and neck cancer patients: a	ongoing	
		retrospective analysis.		
67	Balagopal PG	Reasons for loss of follow up in patients who underwent surgery for head and neck	ongoing	
		cancers: a retrospective analysis.		
68	Balagopal PG	Reasons for the delay in diagnosis and treatment for head and neck cancers: a	ongoing	
		retrospective analysis.	0	
69	Elizabeth Mathew lype	Evaluation of outcome and the incidence of laryngoesophageal dysfunction in T3	Ongoing	
J/	Liizabearr laurew type	laryngeal and hypopharyngeal malignancies treated by chemoradiation.	011601118	
70	Elizabeth Mathew lype	Hypoxia inducible factor, HIF— I alpha expression as an indicator of clinical profile,	Ongoing	
/ U	Liizabeti i iatilew iype			
		tumour characteristics and locoregional control in squamous cell carcinoma of the		
	The state of the s	tongue.	i .	

7 I	Nebu Abraham George	Role of post thyroidectomy serum parathormone and serum calcium levels in	Ongoing
		predicting long term hypocalcaemia.	
		IMAGEOLOGY	
72	Anil Prahladan	Design and development of algorithms for brain tumor and edema segmentation in	Ongoing
		biomedical images.	
		PAEDIATRIC ONCOLOGY	<u> </u>
'3	Kusumakumary P	Profile of infections during induction chemotherapy in children with ALL.	Ongoing
74	Kusumakumary P	Troponin I to detect early anthracycline induced cardiomyopathy in children with	Ongoing
	,	acute leukemia.	
5	Priyakumari T	Loss of protective Anti HbS antibodies and seroconversion to Hepatitis B	Ongoing
	,	vaccination in children during chemotherapy for acute lymphoblastic leukemia.	- 1.8-1.8
6	Priyakumari T	Pediatric acute myeloid leukemia: clinicopathological profile and treatment	Ongoing
Ŭ	i i i jakaman i	outcome.	011601116
7	Priyakumari T	Detection of metabolic syndrome during treatment for acute lymphoblstic leukemia	Ongoing
,	Tryandinairi	in children.	Origoning
'8	Priyakumari T	Metabolic emergencies during induction chemotherapy in pediatric patients with	Ongoing
O	I TIYAKUTTATT I	acute lymphoblastic leukemia.	Origoling
		CANCER EPIDEMIOLOGY	
<u> </u>	A1		
9	Aleyamma Mathew	Association between dietary fat intake and prostate cancer: a meta-analysis.	Ongoing
0	Aleyamma Mathew	Association between red meat intake and colorectal cancer: a meta-analysis.	Ongoing
1	Preethi Sara George	Application of bootstrapping in interval estimation of cancer data.	Ongoing
2	Jagathnath Krishna KM	Association between diet and bladder cancer: principal component analysis	Ongoing
3	Jagathnath Krishna KM	Best fit distribution of cancer survival data.	Ongoing
4	Jagathnath Krishna KM	Cancer survival estimates due to non-uniform loss to follow-up and non-	Ongoing
		proportional hazards.	
_	Ti.	PATHOLOGY	I
5	Jayasree K	Comparative study of the diagnostic indices of IHC Markers CD99 and FLI- 1 in	Ongoing
		skeletal Ewing's sarcoma and other small round cell tumours of bone.	
6	Rekha A Nair	Utility of SOX11 expression in the diagnosis of mantle cell lymphoma.	Ongoing
7	Anitha Mathews	Comparison of expression pattern of HR and HER2/neu protein in primary breast	Ongoing
		carcinoma and synchronous LN metastasis.	
8	Anitha Mathews	Pathological response to neo adjuvant chemotherapy and related changes in	Ongoing
		patients with carcinoma breast.	
9	Nileena Nayak	Diagnostic efficiency of cell block preparation obtained through guided FNA in	Ongoing
	,	comparison with conventional cytology alone and core needle biopsy.	
0	Anila KR	Rapid on-site evaluation for assessing adequacy of CT-guided fine needle aspiration	Ongoing
		sample: A pilot study.	
1	Preethi TR	Clinicopathological analysis of serous borderline tumours and low grade serous	Ongoing
		carcinomas of ovary: A retrospective study.	- 1.8-1.18
		RADIATION PHYSICS	
2	Thayal Singh Elias	Development of teletherapy calculation, radiotherapy patient management and	Ongoing
_	Thayar Singir Lilas	record and verify software system for teletherapy treatments.	011601118
_	A calculation coftware is de-	reloped for use in teletherapy. This software records the details of the treatment parameters	bationt
		acility is provided to evaluate the treatment outcome. Appointment for treatments and treat	
		le online patient treatment status in each teletherapy machine in the Dept. It can be used b	y the
	Radiation Oncologist and Ph	ysicist for better patient management.	

PUBLICATIONS

	Journal Articles
	Anandan J, Mathew AS, <i>Preethi TR</i> , Rakhi MR, Prema FR. 'Aggressive epithelioid angiosarcoma of the scalp: a diagnostic challenge'
	International Journal of Biomedical Research. 2015/6(8): 588-90.
2	Anila KR, Nayak N, George PS, Jayasree K. 'Utility of fine needle aspiration cytology in evaluation of lymphadenopathy: an audit
	from a cancer centre in South India'The Gulf Journal of Oncology. 2015/1(19): 50-6.
3	Anila KR, Nayak N, Jayasree K. 'Meningioma presenting as temporal region swelling: diagnosis by cytopathology and
	immunohistochemical confirmation on cell block preparation' Journal of Cytology. 2015/32(3): 204-6.
4	Anila KR, Nayak N, Muralee M, Venugopal B, Mony RP. Solid-pseudopapillary neoplasm of the pancreas: a classical presentation
	with unique paranuclear dot like immunostaining with CD 99' Indian Journal of Pathology and Microbiology. 2015/58(3): 365-7.
5	Anila KR, Rema P, Kumar A. 'Undifferentiated uterine sarcoma with associated Lipoleiomyoma' Journal of Genital System
	Disorders. 2015/4(2): Article ID: 1000136.
6	Aparna A. 'Prevention of breast cancer' Indian Journal of Oncology Nursing, 2015/13(1): 3-5.
7	Aswathy CG, Suresh Kumar R, Krishna Chandran R, Preethi GN, Priya G, Vijay S, Sreelatha S, Hariharan S. 'Molecular cytogenetics
	reveals a novel complex three way translocation involving chromosomes 4,10 and 16 in a woman with reproductive failure'
	IOSR Journal of Dental and Medical Sciences . 2015/14(7): 102-6.
8	Augustine P, Jose R, Amrithlal A, Nujum ZT, Mathew AP, Haran JC. 'Usefulness of Gail model breast cancer risk assessment tool
	in the Indian context: a case control study' Academic Medical Journal of India. 2015/3(4): 117-22.
9	Azeez JM, Sithul H, Hariharan I, Sreekumar S, Prabhakar J , Sreeja S, Pillai MR. 'Progesterone regulates the proliferation of breast
10	cancer cells: in vitro evidence' Drug Design, Development and Therapy. 2015/9(1): 5987-99.
10	Sabale A, Prahladan A, Kalidos K, Ramachandran K. Osmotic myelinolysis: does extrapontine myelinolysis precede central
Ш	pontine myelinolysis?: report of two cases and review of literature' Indian Journal of Radiology and Imaging. 2015/25(2): 177-83. Babu S, Varghese BT, lype EM, George PS, Sebastian P. 'Evaluation of stapled closure following laryngectomy for carcinoma larynx
	in an Indian tertiary cancer centre' Indian Journal of Cancer. 2015/52(3): 376-80.
12	Balakrishnan J, Maniyan D, Nayak N, Anila KR. 'Mediastinal hamartoma: a rare presentation' Lung India. 2015/32(6): 665-6.
13	Bhagyalekshmi R, Koshy RC. 'Acute hypovolemia induced cardiac arrest following radical nephrectomy in elderly male patient
	with dilated cardiomyopathy'The Anaesthesiologist. 2015/1(6): 9-11.
14	Bhargavan VR, Augustine P, Nitish RA, Kurian C, Anila KR. 'Granular cell tumour of breast: a case report and review of literature'
15	Indian Journal of Surgical Oncology. 2015/6(4): 446-8.
15	Chandramohan K, Nair SA, Pillai MR. Surgical margins a niche for cancer stem like cells in colorectal cancer and its role in
16	tumorogenicity and drug resistance' Journal of Clinical Oncology. 2015/33(15)Suppl: Article ID: e14549. D'Cruz AK, Sharma S, Agarwal JP, Thakar A, Teli A, Arya S, Desai C, Chaturvedi P, Sebastian P, Varghese BT, Kane S, Sucharita V,
10	
	Kaur T, Shukla DK, Rath GK. 'Indian Council of Medical Research consensus document for management of tongue cancer' Indian
17	Journal of Medical and Paediatric Oncology. 2015/36(3): 140-5. Deepak RU, Kumar RR, Byju NB, Sharathkumar PN, Chandran P, Sibi S, Bengtsson E, Sujathan K . 'Computer assisted pap smear
17	
	analyser for cervical cancer screening using quantitative microscopy' Journal of Cytology & Histology. 2015/6(Suppl.3): Article
18	ID: 10. Farha AK, Dhanya SR, Mangalam SN, Remani P . 'Anti-metastatic effect of deoxyelephantopin from Elephantopus scaber in A549
10	
19	lung cancer cells in vitro' Natural Product Research. 2015/29(24): 2341-5 Fowke JH, McLerran DF, Gupta PC, He J, Shu XO, <i>Ramadas K</i> , Tsugane S, Inoue M, Tamakoshi A, Koh W, Koh WP, Nishino Y,
17	Tsuji I, Ozasa K, Yuan JM, Tanaka H, Ahn YO, Chen CJ, Sugawara Y, Ahsan H, Pednekar M, Gu D, Xiang YB, Sauvaget C, Sawada N,
	Wang R, Kakizaki M, Tomata Y, Ohishi W, Butler LM, Oze I, Kim DH, You SL, Park SK, Parvez F, Chuang SY, Chen Y, Lee JE, Grant
	E, Rolland B, Thornquist M, Feng Z, Zheng W, Boffetta P, Sinha R, Kang D, Potter JD. 'Associations of Body Mass Index, smoking,
	and alcohol consumption with prostate cancer mortality in the Asia Cohort Consortium' American Journal of Epidemiology.
20	2015/182(5): 381-9.
20	Geetha N, Rajan V, Sugeeth MT. 'Proptosis in a teen' Scholars Journal of Medical Case Reports. 2015/3(6): 479-80.
21	Geetha N, Sreelesh KP, Anoop TM, Lali VS. 'Acute myeloid leukemia presenting as cardiac tamponade' Clinical Cancer Investigation
22	Journal. 2015/4(6): 772-4.
22	Geetha N, Sreelesh KP, Nair RA, Jacob PM. 'Burkitt's lymphoma of the humerus' Journal of Cancer Research and Therapeutics.
22	2015/11(4): Article ID: 1025.
23	Geetha N, Sugeeth MT, Lali VS. 'Extra nodal nasal NK/T cell lymphoma in a teen: report of a case' Scholars Journal of Medical
	Case Reports. 2015/3(12): 1199-202.

George P. Navak N. Anoob T.M. Nikhil G. Vikram H.P. Sankar AS. 'Pulmonary histoplasmosis mimicking carcinoma lung' Lung India. 2015/32(6): 663-5. 25 Guruprasad CS, Reghu KS, Nair M, Kusumakumary P. 'Asymptomatic hyperamylasemia / hyperlipasemia due to pancreatic infiltration in Acute Lymphoblastic Leukemia' Indian Journal of Pediatrics, 2016/83(1): 81-2. 26 Haridas G. Sajeed A. Anila KR. 'Primary pulmonary epithelial-myoepithelial tumour; report of an aggressive clinical case' lournal of Medical Science and Clinical Research, 2015/3(10): 7842-6. Hosoda M, Tokonami S, Omori Y, Sahoo SK, Akiba S, Sorimachi A, Ishikawa, Tetsuo, Nair RR, Jayalekshmi P. Sebastian P. Iwaoka 27 K, Akata N, Kudo H. 'Estimation of external dose by car-borne survey in Kerala, India' PLOS One. 2015/10(4): Article ID: e0124433 28 Ignatious S, Joseph R, John J, Prahladan A. 'Computer aided lung cancer detection and tumour staging in CT image using image processing 'International Journal of Computer Applications. 2015/128(7): 29-33. 79 lype EM, lagad V, Kumar SN, Varghese BT, Sebastian P. Thyroid gland involvement in carcinoma larynx and hypopharynx: predictive factors and prognostic significance' Journal of Clinical and Diagnostic Research. 2016/10(2): 5-7. 30 Jacob PM, Nair RA, Nair SP, Jayasudha AV. 'Cytokeratin-positive interstitial reticulum cells in the lymphnode: a potential pitfall' Indian Journal of Pathology and Microbiology. 2016/59(1): 128-9 31 James FV, Mathews A. 'Adrenocortical carcinoma presenting with vaginal metastasis' Kerala Medical Journal. 2015/8(3):99-100. 32 James FV, Mathews A. 'Familial testicular germ cell tumor with bilateral disease' Journal of Cancer Research and Therapeutics. 2016/12(1): 422-3. 33 Jayalekshmi P, Harikrishnan K, Jyothisree, Sandhya, Sebastian P. 'Observations from a rural registry: District Cancer Registry, Kollam, Kerala' Cancer Registry Abstract, 2015/20(1): 77-84. Jayalekshmi P, Hassani S, Nandakumar A, Sebastian P, Koriyama C, Akiba S. 'Gastric cancer risk in relation to tobacco use and 34 alcohol drinking in Kerala, India: Karunagappally cohort study' World Journal of Gastroenterology. 2015/21(44): 12676-85. Jayalekshmi P, Sebastian P. 'Burden of cancers: registry based data from Kerala, India' Journal of Health Systems. 2016/2(1): 3-7. 35 Jayasudha AV, Nair RA, Jacob PM, Sukumaran R, Anila KR, Nair SP, Priyakumari T, Kusumakumary P. 'Clinical and hematological profile of acute megakaryoblastic leukemia: a two- year study' Indian Journal of Hematology and Blood Transfusion . 2015/31(2): 169-73 37 Jayasudha AV, Nair RA, Jacob PM. 'Rhabdomyosarcoma masquerading as acute leukemia with lymphoid phenotype expression: a diagnostic trap' Clinical Cancer Investigation Journal. 2015/4(4): 561-3.

Jayasudha AV, Nair RA, Nair SG, Prahladan A. 'Primary diffuse large B-cell lymphoma of the central nervous system in pineal 38 gland: report of a rare case with review of literature' Indian Journal of Pathology and Microbiology. 2015/58(3): 412-3 39 Jayasudha AV, Nair RA, Sukumaran R, Binitha R, Reghu KS, Kusumakumary P. 'Synchronous occurrence of acute myeloid leukemia and rhabdomyosarcoma' Indian Journal of Hematology and Blood Transfusion. 2015/31(3): 387-90. 40 Jayasudha AV, Nair RA, Sukumaran R, Preethi TR. 'Metastatic carcinoma of breast masquerading as acute leukemia at presentation: a case report with review of the literature' Clinical Cancer Investigation Journal. 2015/4(4): 570-1. 41 layasudha S, Madhukumar K, Nair CMK, Nair RG, Anadakumar VM, Elias TS, 'Structural characterisation, thermoluminescence studies and kinetic parameters of SrSO4: Eu nanophosphors under X-ray and gamma excitations' Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy. 2016/155(1): 21-7. 42 Jennings J. 'Multiple myeloma and cancer related fatigue (CRF) 'Indian Journal of Oncology Nursing. 2015/13(3): 16-8. 43 Joseph I, Jayaprakash PG, Mathews S. 'Feasibility study of an altered fractionation schedule in the treatment of carcinoma of uterine cervix' Asian Journal of Radiation Oncology. 2015/3(1): 5-10. Joseph MM, Aravind SR, George SK, Pillai KR, Mini S, Sreelekha TT. 'Anticancer activity of galactoxyloglucan polysaccharide-44 conjugated doxorubicin nanoparticles: mechanistic insights and interactome analysis' European Journal of Pharmaceutics and Biopharmaceutics. 2015/93(1): 183-95. 45 Joseph MM, George SK, Sreelekha TT, 'Bridging 'Green' with nanoparticles: biosynthesis approaches for cancer management and targeting of cancer stem cells' Current Nanoscience. 2016/12(1): 47-62. 46 Kainickal CT, Aparna MP, Kumar RR, Rafi M, Ramadas K. 'Current status of anti-epidermal growth factor receptor therapy in the curative treatment of head and neck squamous cell carcinoma' Cancer Studies and Molecular Medicine. 2016/3(1): Article ID: 1000CSMMOI3114. Kannan N, Sakthivel KM, Guruvayoorappan C. 'Anti-tumour and chemoprotective effect of Bauhinia tomentosa by regulating 47 growth factors and inflammatory mediators' Asian Pacific Journal of Cancer Prevention. 2015/16(18): 8119-26. Kannan N, Sakthivel KM, Guruvayoorappan C. 'Nephroprotective effect of Bauhinia tomentosa Linn. against Cisplatin-induced renal damage' lournal of Environmental Pathology, Toxicology and Oncology, 2016/35(2): 99-107.

 Kecheri S. Venicataraman L. Suganthi J. Sujothan K. Automated lung cancer detection by the analysis of glandular cells in sputum cytology images using scale pace features' Signal lung and Video Processing 2015/9(4); 851-63. Koshy R.G. Rajosree O. Benoy P.E. Coronary artenovenous fistula as an incidental finding in a patient with carcinoma buccal mucosa who presented for vide excision masseshetic imanagement' The Anaesthesiologist, 2015 / (6): 70-2. Kumar SN, Aravind SR, Sreelekhar T. Jacob J. Kumar BS. 'Asarones from Acorus calamus in combination with azoles and amphotorerin B a novel springstic combination to compete against human pathogenic candida species in vitro' Applied Biochemistry, and Biotechnology. 2015/175(8): 3683-95. Kumar SS, George NA, Anila KR, Sebastion P. 'Can frozen section be used to assess depth of invasion of early carcinoma of tongue!' Asorde CS and Sarode SC, Oral Oncology. 2015/11(1): 613-613-613-613-613-613-613-613-613-613-		
 Kashy RC, Rajasce O, Bencoy PE. Coronary arteriovenous fistulia as an incidental finding in a patient with carcinoma burcal murcosa who presented for wide excisions anaestheric management. The Anaesthesiologist. 2015;1(6): 2016. Kumar SN, Arrand SR, Sreelekh GT, Jacob J, Kumar BS. 'Asarones from Acorus colamus in combination with azoles and amphotericin B: a novel synergistic combination to compete against human pathogenic candida species in vitro' Applied Biochemistry and Biotechnology. 2015;175(8): 3683-95. Kumar SS, George NA, Anilo KR, Sebastian P. 'Can increas section be used to assess depth of invasion of early carcinoma of tongue? 'Oral Oncology. 2015;11(1):e87-8. Kumar SS, George NA, Anilo KR, Sebastian P. 'Cap I' or 'Can frozen section be used to assess depth of invasion of early carcinoma of tongue?' Sarode GS and Sarode SC, Oral Oncology. 2016;34(1):e15. Midna A, Sabastian P. Hospital based cancer registry: its applications. Regional Cancer Centre, Thiruvananthapuram: 'Cancer Registry Astaract. 2016;21(1):43-4. Millan A, Kainickal CT, James FV. Treatment of stage I seminoma' Cancer Studies and Molecular Medicine. 2015;2(2):75-9. Millan A, Kainickal CT, James FV. Treatment of stage I seminoma' Cancer Studies and Molecular Medicine. 2015;2(2):75-9. Millan A, Kainickal CT, James FV. Treatment of stage I seminoma' Cancer Studies and Molecular Medicine. 2015;2(2):75-9. Millan A, Kainickal CT, James FV. Treatment of stage I seminoma' Cancer Studies and Molecular Medicine. 2015;2(2):75-9. Millan A, Kainickal CT, James FV. Treatment of stage I seminoma' Cancer Studies and Molecular Medicine. 2015;2(2):75-9. Millan A, Waghus SP, BE, Kumar R, Kannan S. 'Combination of genetic variants in cyclin D1 and retinoblastoma therapy. 2016;4(1):41-42. Nair MA, Reglu KS, Roger KR, Rusunachuman P, Sujuthan K. 'Pathogen SP, Pathogen SP, Pathogen SP, Pathogen SP, Pathoge	49	Kecheril SS, Venkataraman D, Suganthi J, Sujathan K. 'Automated lung cancer detection by the analysis of glandular cells in
mucosa who presented for wide excision: anaesthetic management. The Anaesthesiologist. 2015/16): 20-2. Kumar St, Marainof SR, Sreelekh dT, Eoob, Kumar BS. Vasarones from Acrons colamus in combination with azoles and amphotenicin B: a novel synergistic combination to compete against human pathogenic candida species in vitro' Applied Biochemistry and Biotechnology. 2015/175(8): 3693-55. Kumar SS, George NA, Anilo KK, Sebaston P. Can frozen section be used to assess depth of invasion of early carcinoma of tongue? Oral Oncology. 2015/15(11):e87-8. Xumar SS, George NA, Anilo KK, Sebaston P. Reply to 'Can frozen section be used to assess depth of invasion of early carcinoma of tongue? J Sarode GS and Sarode SC. Oral Oncology. 254:2016, e.13 4 Oral Oncology. 2016/54(1):e15. Mathew A, Sebaston P. Hospital based cancer registry its applications. Regional Cancer Centre, Thruwananthapuram: Cancer Registry Abstract, 2016/2(1):13-4. Millina A, Rosini S, Roghukumar P, Soju B, Menon S, Joyaprakash PG: 'An approach to radiotherapy planning in patients with cardiac implantable electronic device: case report and review of literature journal of Radiology and Radiation therapy. 2016/41(1): Article ID: 1057. Millina A, Rosini S, Roghukumar P, Soju B, Menon S, Joyaprakash PG: 'An approach to radiotherapy planning in patients with cardiac implantable electronic device: case report and review of literature journal of Radiology and Radiation therapy. 2016/41(1): Article ID: 1057. Muroli A, Varghese BT, Kumar R, Kannan S: Combination of genetic variants in cyclin D1 and retinoblastoma genes predict clinical outcome in oral cancer patients: Timous Biology. 2016/37(1): 3601-17. Nair M, Reghu KS, Rojeev KR, Kusumakumary P, Sukumaran R. Primary Evings sarcoma of the spine in pediatric patients: a case series analysis and literature review Middle Fast Journal of Cancer: 2015/6(2): 115-20. Naira AS, Joyakrashna R, Ziadeen S, Ameena M, Naziya M), Proliferative veruccous leukoplakia: an extensive red and white lesion lights canc		sputum cytology images using scale space features' Signal, Image and Video Processing. 2015/9(4): 851-63.
 Kumar SN, Aravind SR, <i>Sreelekha TT</i>, Jacob J, Kumar BS. 'Asarones from <i>Aconus calamus</i> in combination with azoles and amphotencin Ba. anoval synegistic combination to compete against human pathogenic candida species in vitro' Applied Biochemistry and Biotechnology. 2015;1(1):873-8. Kumar SS, George NA, Anilo KR, Sebastian P. Can frozen section be used to assess depth of invasion of early carcinoma of tongue? / Sarode GS and Sarode SC, Crol Oncology. 2016;1(1):e15. Mathew A, Sebastian P. Hospital based cancer registry: its applications. Regional Cancer Centre, Intruvananthapuram.' Cancer Registry. Astract. 2016;1(1):e15. Millon A, Kolnikkal CT, James FV. 'Treatment of stage I seminoma.' Cancer Studies and Molecular Medicine. 2015;2(2):75-9. Millon A, Robnik S, Roghukumar P. Soigi B. Memon S, Jogyparkash PG. 'An approach to radiotherapy planning in patients with cardiac implantable electronic device: case report and review of literature! Journal of Radiology and Radiation therapy. 2016;4(1): Article ID. 1057. Millon A, Korinkkal PS, Kumar R, Kannan S. 'Combination of genetic variants in cyclin D1 and retinoblastoma genes predict dinical outcome in oral cancer patients' Immour Biology. 2016;37(1): 3601-17. Nair M, Reglu KS, Roger KR, Kusumakuman R, Primary Fung's sarroma of the spine in pediatric patients: a case series analysis and literature review Middle East. Journal of Cancer. 2015;6(2): 115-20. Nalin AS, Jogokrishnan R, Ziadeen S, Ameena M, Naziya NJ. Proliferative veruccous leukoplakia: an extensive red and white lesion! IJSS Case Reports. 8. Reviews. 2015;2(1):9-12. Nalin AS, Jogokrishnan R, Ziadeen S, Ameena M, Naziya NJ. Proliferative veruccous leukoplakia: an extensive red and white lesion! IJSS Case Reports. 8. Reviews. 2015;2(1):9-12. Periera SC, Jissa VT, George JK. Thomas S. Sujathan K. Validation of CK-19 and HBME-1 expression pattern in FNAC's to supplement morphologi	50	
amphotencian B.a novel synergistic combination to compete against human pathogenic candida species in vitro' Applied Biochemistry and Biotechnology. 2015/15(8): 3683-95. 52. Kumar SS, George NA, Anila KR, Sebastian P. Can frozen section be used to assess depth of invasion of early carcinoma of tongue? Oral Oncology. 2015/15(11):e87-8. 53. Kumar SS, George NA, Anila KR, Sebastian P. Reply to 'Can frozen section be used to assess depth of invasion of early carcinoma of tongue? J Sarode CS and Sarode SC. Oral Oncology.V54: 2016. e13-4 'Oral Oncology. 2016/54(1):e15. 54. Mathew A, Sebastian P. Hospital based cancer registry: its applications. Regional Cancer Centre, Thiruvananthapuram: Cancer Registry Abstract. 2016/21(1):a3-4. 55. Milan A, Kainickal CT, Impaer PV. Treatment of stage I seminoma: Cancer Studies and Molecular Medicine. 2015/2(2):75-9. 56. Milan A, Rashni S, Raghukumar P, Soju B. Menon S, Joyaprakash PG. 'An approach to radiotherapy planning in patients with cardiac implantable electronic device: case report and review of literature Journal of Radiology and Radiation therapy. 2016/47(1): Article ID: 1057. 57. Muroli A, Varghese BT, Kumar R, Kannan S. 'Combination of genetic variants in cyclin DI and retinoblastoma genes predict clinical outcome in oral cancer patients Timorur Biology. 2016/37(1): 3601-17. 58. Nair M, Reghu KS, Rajeev KR, Kusumokumary P, Sukumaran R. Primary Evring's sarcoma of the spine in pediatric patients: a case series analysis and literature review? Middle East Journal of Cancer: 2015/6(2): 115-20. 59. Naira AS, Joyakrishnan R, Ziadeen S, Ameena M, Nazya NJ; Propiteral Ameloblastoma: a unique presentation' IOSR Journal of Dental and Medicial Sciences (10SR: JDMS). 2016/15(1): 81-5. 50. Naira AS, Joyakrishnan R, Ziadeen S, Ameena M, Nazya NJ; Propiteral Ameloblastoma: a unique presentation in diagnosis of cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015/70(1): 145-52. 64. Pereira SC, Jissa VT, George JK, Thomas S, Sujathan K. Validation of C		mucosa who presented for wide excision: anaesthetic management The Anaesthesiologist. 2015/1(6): 20-2.
Biochemistry and Biotechnology 2015/175(8): 3683-95. Kumar SS, George NA, Anila CR, Sebastian P. Can frozen section be used to assess depth of invasion of early carcinoma of tongue? Oral Oncology 2015/51(11):e87-8. Kumar SS, George NA, Anila CR, Sebastian P. Reply to 'Can frozen section be used to assess depth of invasion of early carcinoma of tongue? / Sarode CS and Sarode SC. Oral Oncology/54; 2016, e13 - 4* Oral Oncology. 2016/51(1):e15. Mathew A, Sebastian P. Hospital based cancer registry: its applications. Regional Cancer Centre, Thiruvananthapuram.' Cancer Registry. Abstract. 2016/21(1):e3-4. Millan A, Kainickal CT, James FV. Treatment of stage I seminoma' Cancer Studies and Molecular Medicine. 2015/2(2):75-9. Millan A, Rashni S, Raghukumar P, Soju B, Menon S, Joyaprakash PG. Yan approach to radiotherapy planning in patients with cardiac implantable electronic device: case report and review of literature journal of Radiology and Radiation therapy. 2016/4(1): Article ID: 1057. Muroli A, Varghese BF, Kumara R, Kannan S. 'Combination of genetic variants in cyclin D1 and retinoblastoma genes predict clinical outcome in oral cancer patients.' Tumour Biology. 2016/37(1): 3601-17. Nair M, Reghu KS, Rojeev KR, Kusumakumary P, Sukumaran R. Primary Eving's Sarcoma of the spine in pediatric patients: a case series analysis and literature review Pfiddle East Journal of Cancer: 2015/6(2): 115-20. Nair M, Reghu KS, Rojeev KR, Kusumakumary P, Sukumaran R. Primary Eving's sarcoma of the spine in pediatric patients: a case series analysis and literature review Pfiddle East Journal of Cancer: 2015/6(2): 115-20. Nair M, Reghu KS, Rojeev KR, Kusumakumary P, Sukumaran R. Primary Eving's Sarcoma of the spine in pediatric patients: a case series analysis and literature review Pfiddle East Journal of Cancer: 2015/6(2): 115-20. Nair M, Reghu KS, Rojeev KR, Kusumakumary P, Sukumaran R, Primary Eving's Sarcoma of the spine in pediatric patients: a case series analysis and literature review Pfiddle East Journal of Registr	51	
 52 Kumar SS, George NA, Anila KR, Sebostian P. Can frozen section be used to assess depth of invasion of early carcinoma of tongue? Oral Oncology 2015/51(11):e87-8. 53 Kumar SS, George NA, Anila KR, Sebostian P. Reply to 'Can frozen section be used to assess depth of invasion of early carcinoma of tongue? / Sarode CS and Sarode SC. Oral Oncology.V54:2016. e134* Oral Oncology.V016/54(1):e15. 54 Mühre A, Sebostian P. Hospital based cancer registry: its applications. Regional Cancer Centre, Thiruvananthapuram: Cancer Registry Abstract. 2016/21(1):43-4. 55 Milan A, Kainickal CT, Jomes PV. Treatment of stage I seminoma' Cancer Studies and Molecular Medicine. 2015/2(2):75-9. 56 Milan A, Kainickal CT, Jomes PV. Treatment of stage I seminoma' Cancer Studies and Molecular Medicine. 2015/2(2):75-9. 56 Milan A, Roshni S, Raghukumar P, Saju B, Menon S, Jayopraksah PG: 'An approach to radiotherapy planning in patients with cardiac implantable electronic device: case report and review of literature? Journal of Radiology and Radiation therapy. 2016/4(1): Article ID: 1057. 57 Murali A, Varghees BT, Kumar R, Kannan S. 'Combination of genetic variants in cyclin D1 and retinoblastoma genes predict clinical outcome in oral cancer patients Tumour Biology. 2016;37(1): 360-17. 58 Nair M, Reghu KS, Rajeev RR, Kusumakumary P, Sukumaran R. Primary Evirigs sarroma of the spine in pediatric patients a case series analysis and literature review Mildle East Journal of Cancer. 2015;6(2): 115-20. 59 Nalin AS, Jayokrishnan R, Ziadeen S, Ameena M, Naziya NJ, Proliferative veruccous leukoplakia: an extensive red and white lesion' IJSS Case Reports & Reviews. 2015;2(1): 9-12. 60 Nalin AS, Jayokrishnan R, Ziadeen S, Ameena M, Naziya NJ, Proliferative veruccous leukoplakia: an extensive red and white lesion' IJSS Case Reports & Reviews. 2015;2(1): 9-12. 61 Nariyanan N, Karunakaran Y, Paul W.Nemugopal K. S		
tongue? Oral Oncology. 2015/51(11):e87-8. Kumar SS, George NA, Anila KR, Sebastian P: Reply to 'Can frozen section be used to assess depth of invasion of early carcinoma of tongue? / Sarode GS and Sarode SC. Oral Oncology. V54; 2016. e13 4* Oral Oncology. 2016/54(1):e15. Mathew A, Sebastian P. Hospital based cancer registry: its applications. Regional Cancer Centre, Thiruxananthapuram: Cancer Registry. Abstract. 2016/21(1)::43-4. Milan A, Kainickal CT, James RV. Treatment of stage I seminoma' Cancer Studies and Molecular Medicine. 2015/2(2): 75-9. Milan A, Kainickal CT, James RV. Treatment of stage I seminoma' Cancer Studies and Molecular Medicine. 2015/2(2): 75-9. Milan A, Roshini S, Roghukumar P, Suju B, Menon S, Joyapraksah PG: An approach to radiotherapy planning in patients with cardiac implantable electronic device case report and review of literature' Journal of Radiology and Radiation therapy. 2016/4(1): Article ID: 1057. Muroli A, Varghee BR, Kumara R, Kannan S. 'Combination of genetic variants in cyclin D1 and retinoblastoma genes predict clinical outcome in oral cancer patients' Tumour Biology. 2016/37(1): 3601-17. Nalin AR, Reghu KS, Rejev KR, Kusumankumary P, Sukumaran R. 'Pimary Eving's sarcoma of the spine in pediatric patients: a case series analysis and literature review! Middle East Journal of Cancer. 2015/6(2): 115-20. Nalin AS, Joyakrishnan R. Ziadeen S, Anneena M, Naziya NJ, Propiferative veruccous leukoplakia: an extensive red and white lesion! 1055 Case Reports & Reviews. 2015/2(1): 9-12. Nalin AS, Joyakrishnan R. Ziadeen S, Anneena M, Naziya NJ, Propiferative veruccous leukoplakia: an extensive red and white lesion! 1055 Case Reports & Reviews. 2015/2(1): 9-13. Nalin AS, Joyakrishnan R. Ziadeen S, Anneena M, Naziya NJ, Propiferative veruccous leukoplakia: an extensive red and white lesion! 1055 Case Reports & Reviews. 2015/2(1): 9-15. Nalin AS, Joyakrishnan R. Ziadeen S, Anneena M, Naziya NJ, Propiferative veruccous leukoplakia: an extensive radio with selection of carvical		Biochemistry and Biotechnology. 2015/175(8): 3683-95.
 Say Carege NA, Anilo KR, Sebastian P. Reply to 'Can frozen section be used to assess depth of invasion of early carcinoma of tongue! / Sarode SG and Sarode SG. Oral Oncology V54; 2016. et al. 4: Oral Oncology, 2016/54(1):e15. Mathew A, Sebastian P. Hospital based cancer registry: its applications. Regional Cancer Centre, Thiruvananthapuram.' Cancer Registry: Abstract. 2016/21(1):43-4. Millan A, Kainickal CT, James FV. Treatment of stage I seminoma' Cancer Studies and Molecular Medicine. 2015/2(2): 75-9. Millan A, Roshini S, Raghukumar P, Saju B, Menon S, Jayopraksah PG. 'An approach to radiotherapy planning in patients with cardiac implantable electronic device: case report and review of literature' Journal of Radiology and Radiation therapy. 2016/4(1): Article ID: 1057. Murdi A, Varghese BT, Kumar R, Kannan S. 'Combination of genetic variants in cyclin D1 and retinoblastoma genes predict clinical outcome in oral cancer patients' Tumour Biology. 2016/37(1): 3601-17. Nair M, Reghu KS, Rojeev KR, Kusumakumary P, Sukumaran R. 'Primary Ewing's sarcoma of the spine in pediatric patients a case series analysis and literature review.' Middle East Journal of Cancer. 2015/6(2): 115-20. Nalin AS, Joyakrishnan R, Ziadeen S, Armeena M, Nazaya NJ, Preripheral Arneioblastoma: a unique presentation' IOSR Journal of Dental and Medical Sciences (IOSR-IDMS). 2016/15(1): 81-5. Nain AS, Joyakrishnan R, Ziadeen S, Armeena M, Nazaya NJ, Proliferative veruccous leukoplakia: an extensive red and white lesion' ISS Case Reports & Reviews. 2015/2(1): 9-12. Narianan N, Karunakaran V, Paul Wenugopal K, Sujuthan K, Maiti KK: 'Aggregation induced Raman scattering of squaraine dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015/70(1): 145-52. Pereiro SC, Jissa VT, George JK. Thomas S, Sujuthan K. Validation of CK-19 and HBME-1 expression pattern in FNAC	52	
of tengue? J. Sarode. GS. and Sarode SC., Oral. Oncology. V54; 201.6. e. 13 4.** Oral. Oncology. 201.6/54(1): e. 15. Mathew A. Sebsstian P. Hospital based cancer registry: its applications. Regional Cancer Centre, Thiruvananthapuram.' Cancer Registry. Abstract. 2016/21(1): 43.4. Milan A. Rainkick of CT, James FV. Treatment of stage I seminoma' Cancer Studies and Molecular Medicine. 2015/2(2): 75.9. Milan A. Roshni S, Raghukumar P, Soju B, Menon S, Jayaprakash PC. An approach to radiotherapy planning in patients with cardiac implantable electronic device: case report and review of literature' Journal of Radiology and Radiation therapy. 2016/4(1): Article ID: 1057. Murdh A. Varghese BT, Kumar R, Kannan S. Combination of genetic variants in cyclin D1 and retinoblastoma genes predict clinical outcome in oral cancer patients' Tumour Biology. 2016/37(1): 3601-17. Nair M, Reghu KS, Rojeev KR, Kusumakumary P, Sukumaran R. Primary Ewing's sarcoma of the spine in pediatric patients: a case series analysis and literature review Middle East Journal of Cancer. 2015/6(2): 115-20. Nain AS. Jayakrishnan R. Ziadeen S, Ameena M, Naziya NJ, Preiriberal Amelioblastoma: a unique presentation' IOSR Journal of Dental and Medical Sciences (IOSR) IDNS). 2016/15(1): 81-15. Nain AS. Jayakrishnan R. Ziadeen S, Ameena M, Naziya NJ, Proliferative veruccous leukoplakia: an extensive red and white lesion' IISS Case Reports & Reviews. 2015/2(1): 9-12. Narayanan N, Karrunakaran V, Paul W. Veruugopal K. Sujathan K. Maiti KK: Aggregation induced Raman scattering of squaraine dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015/70(1): 145-52. Pereira SC, Jissa VT, George JK, Thomas S, Sujathan K. Validation of CK-19 and HBME-1 expression pattern in FNACs to supplement morphological evaluation for preoperative diagnosis of thyroid lesions' British journal of Medicine & Medicial Research. 2016/37(1): 47-75. Peretra SC, Jissa VT, George JK. Thomas S, Preethi TR. Remani P. Suja		tongue?' Oral Oncology. 2015/51(11):e87-8.
 Mathew A, Sebastian R. Hospital based cancer registry: its applications. Regional Cancer Centre, Thiruvananthapuram'. Cancer Registry Abstract. 2016;21(1): 43-8. Milan A, Rainickal CT, James FV. Treatment of stage I seminoma' Cancer Studies and Molecular Medicine. 2015;2(2): 75-9. Milan A, Roshin S, Raghukumar P, Saju B, Menon S, Jayaprakash PG. 'An approach to radiotherapy planning in patients with cardiac implantable electronic device: case report and review of literature' Journal of Radiology and Radiation therapy. 2016;4(1): Article ID: 1057. Murali A, Varghese BT, Kumar R, Kannan S. 'Combination of genetic variants in cyclin D I and retinoblastoma genes predict clinical outcome in oral cancer patients' Tumour Biology. 2016;37(1): 3601-17. Nair M, Reghu KS, Rajeev KR, Kusumakumary P, Sukumaran R. Primary Evings sarcoma of the spine in pediatric patients: a case series analysis and literature review Middle East Journal of Cancer. 2015;6(2): 115-20. Nalin AS, Jayakrishnan R. Ziaudeen S. Ameena M, Nazya NJ, Peripheral Ameloblastoma: a unique presentation' IOSR Journal of Dental and Medical Sciences (IOSR-JDMS). 2016;15(1): 81-5. Nalin AS, Jayakrishnan R. Ziaudeen S, Ameena M, Nazya NJ, Peripheral Ameloblastoma: a unique presentation in diagnosis of Cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015;70(1): 145-52. Narayanan N, Karunakaran Y, Paul Wvenugopal K, Sujathan K, Maiti KK: 'Aggregation induced Raman scattering of squaraine dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015;70(1): 145-52. Pereira SC, Jissa VT, George JK. Thomas S. Sujathan K. 'Validation of CK-19 and HBME-1 expression pattern in FNAC's to supplement morphological evaluation for preoperative diagnosis of folicular cell derived thyroid tumors in FNAC' international Journal of Current Research. 2015;7(10): 21780-88. Perei	53	
Registry Abstract, 2016/21(1):43-4. Milan A, Kainickal CT, James FV. Treatment of stage I seminoma' Cancer Studies and Molecular Medicine. 2015/2(2):75-9. Milan A, Roshini S, Raghukumar P, Saju B, Menon S, Jayaprakash PG. 'An approach to radiotherapy planning in patients with cardiac implantable electronic device: case report and review of literature' Journal of Radiology and Radiation therapy. 2016/47(1): Article ID: 1057. Murali A, Varghese BT, Kumar R, Kannan S. 'Combination of genetic variants in cyclin D1 and retinoblastoma genes predict clinical outcome in oral cancer patients' Tumour Biology. 2016/37(1): 3601-17. Nair M, Reghu KS, Rajeev KR, Kusumakumary P, Sukumaran R. 'Primary Ewing's sarcoma of the spine in pediatric patients: a case series analysis and literature review' Middle East Journal of Cancer. 2015/6(2): 115-20. Nalin AS, Jayakrishnan R, Ziadeen S, Ameena M, Naziya NJ; Peropheral Ameloblastoma: a unique presentation' IOSR Journal of Dental and Medical Sciences (IOSR-IDMS). 2016/15(1): 81-5. Narayanan N, Karunakaran V, Paul W, Venugopal K, Sujathan K, Maiti KK: 'Aggregation induced Raman scattering of squaraine dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015/70(1): 145-52. Pereira SC, Jissa VT, George JK. Thomas S, Sujathan K. 'Validation of CK-19 and HBME-1 expression pattern in FNACs to supplement morphological evaluation for preoperative diagnosis of thyroid lesions' British Journal of Medicine & Medical Research. 2016/13(4): "Article ID: BJMMR-23061. Pereira SC, Jissa VT, Thomas S, Preethi TR, Remani P, Sujathan K: 'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bcl-2: its significance in the differential diagnosis of follicular cell derived thyroid tumors in FNAC' International Journal of Current Research. 2015/7(10): 21780-88 Prabiu DJ, Koshy RC, Mampilily AP: 'A role of emla/paravertebral block in effectively controlling post mastectomy pain in a patient with advanced parkinsonism	F 4	of tongue? / Sarode GS and Sarode SC. Oral Oncology. V54; 2016. e13 - 4' Oral Oncology. 2016/54(1): e15.
 Milan A, Karinickal CT, James FV. Treatment of stage I seminoma' Cancer Studies and Molecular Medicine. 2015/2(2):75-9. Milan A, Roshni S, Roghukumar P, Saju B, Menon S, Jayaprakash PG. 'An approach to radiotherapy planning in patients with cardiac implantable electronic device: case report and review of literature' Journal of Radiology and Radiation therapy. 2016/4(1): Article ID: 1057. Murali A, Vorghese BT, Kumar R, Kannan S. 'Combination of genetic variants in cyclin D1 and retinoblastoma genes predict clinical outcome in oral cancer patients' Tumour Biology. 2016/37(1): 3601-17. Nair M, Reghu KS, Rojeev KR, Kusumakumary P, Sukumaran R. 'Primary Ewing's sarroma of the spine in pediatric patients: a case series analysis and literature review.' Middle East Journal of Cancer. 2015/6(2): 115-20. Nalin AS, Jayakrishnan R, Ziaideen S, Ameena M, Naziya NJ, 'Peripheral Ameloblastoma: a unique presentation' IOSR Journal of Dental and Medical Sciences (IOSR-IDMS). 2016/15(1): 81-5. Nalin AS, Jayakrishnan R, Ziaideen S, Ameena M, Naziya NJ, 'Proliferative veruccous leukoplakia: an extensive red and white lesion' IJSS Case Reports & Reviews. 2015/2(1): 9-12. Narayanan N, Karunakaran V, Paul W, Venugopal K, Sujathan K, Maiti KK. 'Aggregation induced Raman scattering of squaraine dye implementation in diagnosis of cervical cancer dysplasia by SERS imaging Biosensors and Bioelectronics. 2015/70(1): 145-52. Pereira SC, Jissa VT, George JK, Thomas S, Sujathan K. 'Validation of CK-19 and HBME-1 expression pattern in FNACs to supplement morphological evaluation for preoperative diagnosis of thyroid lesions British Journal of Medicine & Medical Research. 2016/13(4): Article ID: BIMMR-23061. Pereira SC, Jissa VT, Thomas S, Preterii TR, Remani P, Sujathan K. 'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bcl-2: its significance in the differential diagnosis of follicular cell deriv	34	
 Milan A, Roshni S, Raghukumar P, Saju B, Menon S, Jayaprakash PG: An approach to radiotherapy planning in patients with cardiac implantable electronic device: case report and review of literature' Journal of Radiology and Radiation therapy. 2016/4(1): Article ID: 1057. Murali A, Varghese BT, Kumar R, Kannan S. Combination of genetic variants in cyclin D1 and retinoblastoma genes predict clinical outcome in oral cancer patients' Tumour Biology. 2016/37(1): 3601-17. Nair M, Reghu KS, Rajeev KR, Kusumakumary P, Sukumaran R. Primary Ewing's sarcoma of the spine in pediatric patients: a case series analysis and literature review. Middle East Journal of Cancer. 2015/6(2): 115-20. Nalin AS, Jayakrishnan R, Ziadeen S, Ameena M, Naziya NJ; Proliferative veruccous leukoplakia: an extensive red and white lesion' IJSS Case Reports & Reviews. 2015/2(1): 9-12. Nalin AS, Jayakrishnan R. Ziaudeen S, Ameena M, Naziya NJ; Proliferative veruccous leukoplakia: an extensive red and white lesion' IJSS Case Reports & Reviews. 2015/2(1): 9-12. Narayanan N, Karunakaran V, Paul W, Verugopal K. Sujathan K, Maiti KK: 'Aggregation induced Raman scattering of squaraine dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015/70(1): 145-52. Pereira SC, Jissa VT. George JK. Thomas S, Sujathan K. 'Validation of CK-19 and HBME-1 expression pattern in FNACs to supplement morphological evaluation for preoperative diagnosis of thyroid lesions' British Journal of Medicine & Medical Research. 2016/13(4): Article ID: BIMMR-23061. Pereira SC, Jissa VT. Thomas S, Preethi TR. Remain P. Sujathan K. 'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bcl-2: its significance in the differential diagnosis of follicular cell derived thyroid tumors in FNAC' International Journal of Current Research. 2015/7(1): 21780-88 Pilla VS, Bhagyalekshmi RR, Koshy RC: Kno		
cardiac implantable electronic device: case report and review of literature' Journal of Radiology and Radiation therapy. 2016/4(1): Article ID: 1057. Muridi Avarphese BT, Kumar R, Kannan S. 'Combination of genetic variants in cyclin D1 and retinoblastoma genes predict clinical outcome in oral cancer patients' Tumour Biology. 2016/37(1): 3601–17. Nair M, Reghu KS, Rojeev KR, Kusumakumary R, Sukumaran R. 'Primary Ewing's sarcoma of the spine in pediatric patients: a case series analysis and literature review Middle East Journal of Cancer. 2015/6(2): 115-20. Nalin AS, Jayakrishnan R. Ziaideen S, Ameena M, Naziya NJ, 'Peripheral Ameloblastoma: a unique presentation' IOSR Journal of Dental and Medical Sciences (IOSR-IDMS). 2016/15(1): 81-5. Nalin AS, Jayakrishnan R. Ziaudeen S, Ameena M, Naziya NJ, 'Peripheral Ameloblastoma: a unique presentation' IOSR Journal of Dental and Medical Sciences (IOSR-IDMS). 2016/15(1): 81-5. Nalin AS, Jayakrishnan R. Ziaudeen S, Ameena M, Naziya NJ, 'Peripheral Ameloblastoma: a unique presentation' IOSR Journal of Dental and Medical Sciences (IOSR-IDMS). 2016/15(1): 91-12. Narayanan N, Karunakaran N, Paul W/Venugopal K. Sujathan K. Maiti KK.'Aggregation induced Raman scattering of squaraine dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015/70(1): 145-52. Pereira SC, Jissa VT, George JK. Thomas S, Sujathan K.'Validation of CK-19 and HBME-1 expression pattern in FNACs to supplement morphological evaluation for preoperative diagnosis of thyroid lesions' British Journal of Medicine & Medical Research. 2016/13(4): Article ID: BlyMmR-23061. Pereira SC, Jissa VT, Thomas S, Preethi TR, Remani P, Sujathan K.'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bcl-2: its significance in the differential diagnosis of follicular cell derived thyroid tumors in FNAC' International Journal of Current Research. 2015/10(0): 21780-88 Pillot XB, Bhagveleskhmi KR, Koshy RC: Knowledge, attitude and practice		
 2016/4(I): Article ID: I057. Murali A Kyanjese BT, Kumar R, Kannan S. 'Combination of genetic variants in cyclin D1 and retinoblastoma genes predict clinical outcome in oral cancer patients Tumour Biology. 2016/37(I): 3601-17. Nair M, Reghu KS, Rajeev KR, Kusumakumary P, Sukumaran R. 'Primary Ewing's sarcoma of the spine in pediatric patients: a case series analysis and literature review' Middle East Journal of Cancer. 2015/6(2): 115-20. Nalin AS, Jayakrishnan R. Ziadeen S, Ameena M, Naziya NJ; 'Peripheral Ameloblastoma: a unique presentation' IOSR Journal of Dental and Medical Sciences (IOSR-IDMS). 2016/15(I): 81-5. Nalin AS, Jayakrishnan R. Ziadeen S, Ameena M, Naziya NJ; 'Proliferative veruccous leukoplakia: an extensive red and white lesion' IJSS Case Reports & Reviews. 2015/2(I): 9-12. Narayanan N, Karunakaran V, Paul W, Venugopal K. Sujathan K. Maiti KK. 'Aggregation induced Raman scattering of squaraine dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015/70(I): 145-52. Pereira SC, Jissa VT, George JK. Thomas S, Sujathan K. 'Validation of CK-19 and HBME-1 expression pattern in FNACs to supplement morphological evaluation for preoperative diagnosis of thyroid lesions' British Journal of Medicine & Medical Research. 2016/13(4): Article ID: BJMMR-23061. Pereira SC, Jissa VT, Thomas S, Preethi TR, Remani P. Sujathan K.'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bcl-2: its significance in the differential diagnosis of follicular cell derived thyroid tumors in FNAC International Journal of Medical Nano Bc. 15/71(ID): 21780-88 Pillai WS, Bhagyalekshmi KR, Koshy RC. 'Knowledge, attitude and practice of current cardiopulmonary resuscitation guidelines: a survey among nurses' IOSR Journal of Nursing and Health Science. 2016/5(2): 9-11. Prabhu DJ, Koshy RC, Mampilly AP. 'A role of emia/parav	56	
 Murali A, Varghese BT, Kumar R, Kannan S. 'Combination of genetic variants in cyclin D1 and retinoblastoma genes predict clinical outcome in oral cancer patients' Tumour Biology. 2016/37(1): 3601–17. Nair M, Reghu KS, Rojeev KR, Kusumakumary P, Sukumaran R. Primary Ewing's sarcoma of the spine in pediatric patients: a case series analysis and literature review! Middle East Journal of Cancer. 2015/6(2): 115–20. Nalin AS, Jayakrishnan R, Ziadeen S, Ameena M, Naziya NJ: Peripheral Ameloblastoma: a unique presentation' IOSR Journal of Dental and Medical Sciences. (IOSR-IDMS). 2016/15(1): 81–5. Nalin AS, Jayakrishnan R, Ziaudeen S, Ameena M, Naziya NJ: Proliferative veruccous leukoplakia: an extensive red and white lesion' IJSS Case Reports & Reviews. 2015/2(1): 9-12. Narayanan N, Karunakaran V, Paul W, Venugopal K, Sujathan K, Maiti KK. 'Aggregation induced Raman scattering of squaraine dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging Biosensors and Bioelectronics. 2015/70(1): 145–52. Pereira SC, Jissa VT, George JK. Thomas S, Sujathan K. 'Validation of CK-19 and HBME-1 expression pattern in FNACs to supplement morphological evaluation for preoperative diagnosis of thyroid lesions' British Journal of Medicine & Medical Research. 2016/13(4): Article ID: BIMMR-23061. Pereira SC, Jissa VT, Thomas S, Preethi TR, Remani P, Sujathan K. 'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bcl-2: its significance in the differential diagnosis of follicular cell derived thyroid tumors in FNAC' International Journal of Current Research. 2015/7(10): 21780-88 Pillai VS, Bhagyalekshmi KR, Koshy RC. 'Knowledge, attitude and practice of current cardiopulmonary resuscitation guidelines: a survey among nurses IOSR Journal of Nursing and Health Science. 2016/5(2): 9-11. Prabith UJ, Koshy RC, Mampilly AP: A role of emila/paravertebral block in effectively controlling post mastectomy pain in a patien		
clinical outcome in oral cancer patients Tumour Biology, 2016/37(1): 3601-17. Nair M, Reghu KS, Rojeev KR, Kusumakumary P, Sukumarana R, Primary Ewing's sarcoma of the spine in pediatric patients: a case series analysis and literature review Middle East Journal of Cancer. 2015/6(2): 115-20. Nalin AS, Jayakrishnan R, Ziadeen S, Ameena M, Naziya NJ, Proliferative veruccous leukoplakia: an extensive red and white lesion' IJSS Case Reports & Reviews. 2015/2(1): 81-5. Nalin AS, Jayakrishnan R, Ziaudeen S, Ameena M, Naziya NJ, Proliferative veruccous leukoplakia: an extensive red and white lesion' IJSS Case Reports & Reviews. 2015/2(1): 9-12. Narayanan N, Karunakaran V, Paul W, Venugopal K, Sujathan K, Maitt KK. 'Aggregation induced Raman scattering of squaraine dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015/70(1): 145-52. Pereira SC, Jissa VT, George JK, Thomas S, Sujathan K. 'Validation of CK-19 and HBME-1 expression pattern in FNACs to supplement morphological evaluation for preoperative diagnosis of thyroid lesions' British Journal of Medicine & Medical Research. 2016/13(4): Article ID: BJMMR-23061. Pereira SC, Jissa VT, Thomas S, Preethi TR, Remani P, Sujathan K: 'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bc-2: its significance in the differential diagnosis of follicular cell derived thyroid tumors in FNAC' International Journal of Current Research. 2015/7(10): 21780-88 Piliai VS, Bhogyalekshmi KR, Koshy RC. 'Knowledge, attitude and practice of current cardiopulmonary resuscitation guidelines: a survey among nurses I JOSR Journal of Nursing and Health Science. 2016/5(2): 9-11. Prabhu DJ, Koshy RC, Mampilly AP: A role of emia/paravertebral block in effectively controlling post mastectomy pain in a patient with advanced parkinsonism: a case report' The Anaesthesiologist. 2015/1(6): 7-8. Prabhu DJ, Koshy RC, Mampilly AP: A role of emia/paravertebral block in effectively controlling post mastection of ce		2016/4(1): Article ID: 1057.
 Nair M, Rephu KS, Rajeev KR, Kusumakumary P, Sukumaran R. 'Primary Ewing's sarcoma of the spine in pediatric patients: a case series analysis and literature review' Middle East Journal of Cancer. 2015/6(2): 115-20. Nalin AS, Jayakrishnan R, Ziadeen S, Ameena M, Naziya NJ, 'Peripheral Ameloblastoma: a unique presentation' IOSR Journal of Dental and Medical Sciences (IOSR-JDMS). 2016/15(1): 81-5. Nalin AS, Jayakrishnan R, Ziadeen S, Ameena M, Naziya NJ, 'Proliferative veruccous leukoplakia: an extensive red and white lesion' IJSS Case Reports & Reviews. 2015/2(1): 9-12. Narayanan N, Karunakaran V, Paul W, Venugopal K, Sujathan K, Maiti KK. 'Aggregation induced Raman scattering of squaraine dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging Biosensors and Bioelectronics. 2015/70(1): 145-52. Pereira SC, Jissa VT, George JK, Thomas S, Sujathan K. 'Validation of CK-19 and HBME-1 expression pattern in FNACs to supplement morphological evaluation for preoperative diagnosis of thyroid lesions' British Journal of Medicine & Medical Research. 2016/13(4): Article ID: BJMMR-23061. Pereira SC, Jissa VT, Thomas S, Preethi TR, Remani P, Sujathan K. 'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bct-2: its significance in the differential diagnosis of follicular cell derived thyroid tumors in FNAC' International Journal of Current Research. 2015/7(0): 21780-88 Pilait VS, Bhagyalekshmir KR, Koshy RC: Knowledge, attitude and practice of current cardiopulmonary resuscitation guidelines: a survey among nurses' IOSR Journal of Nursing and Health Science. 2016/5(2): 9-11. Prabhu DJ, Koshy RC, Mampilly AP: A role of emla/paravertebrab block in effectively controlling post mastectomy pain in a patient with advanced parkinsonism: a case report: The Anaesthesiologist. 2015/10:7-8. Prabitha U, Sushy RC, Mampilly AP: A role of emla/paravertebrab block in effectively	5/	
series analysis and literature review Middle East Journal of Cancer; 2015/6(2): 115-20. Nalin AS, Joyakrishnan R, Ziadeen S, Ameena M, Naziya NJ: Peripheral Ameloblastoma: a unique presentation' IOSR Journal of Dental and Medical Sciences (IOSR-IDMS), 2016/15(1): 81-5. Nalin AS, Joyakrishnan R, Ziaudeen S, Ameena M, Naziya NJ: Proliferative veruccous leukoplakia: an extensive red and white lesion' IJSS Case Reports & Reviews. 2015/2(1): 9-12. Narayanan N, Karunakaran V, Paul W, Venugopal K, Sujathan K, Maiti KK. 'Aggregation induced Raman scattering of squaraine dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015/70(1): 145-52. Pereira SC, Ijssa VT, George JK. Thomas S, Sujathan K. 'Validation of CK-19 and HBME-1 expression pattern in FNACs to supplement morphological evaluation for preoperative diagnosis of thyroid lesions' British Journal of Medicine & Medical Research. 2016/13(4): Article ID: BIMMR-23061. Pereira SC, Ijssa VT, Thomas S, Preethi TR, Remani P, Sujathan K. 'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bcl-2: its significance in the differential diagnosis of follicular cell derived thyroid tumors in FNAC' International Journal of Current Research. 2015/7(10): 21780-88 Pillai VS, Bhagyalekshmi KR, Koshy RC. 'Knowledge, attitude and practice of current cardiopulmonary resuscitation guidelines: a survey among nurses' IOSR Journal of Nursing and Health Science. 2016/5(2): 9-11. Probhu DJ, Koshy RC, Mampilly AP. 'A role of emla/paravertebral block in effectively controlling post mastectomy pain in a patient with advanced parkinsonism: a case report' The Anaesthesiologist. 2015/1(6): 7-8. Prabhu DJ, Koshy RC, Mampilly AP. 'A role of emla/paravertebral block in effectively controlling post mastectomy pain in a patient with advanced parkinsonism: a case report' The Anaesthesiologist. 2015/1(6): 7-8. Prabhu DJ, Koshy RC, Mampilly AP. 'A role of emla/paravertebral block in effectively controlling post	F0	clinical outcome in oral cancer patients' Tumour Biology. 2016/37(1): 3601-17.
 Nalin AS, Jayakrishnan R, Ziadeen S, Ameena M, Naziya NJ, 'Peripheral Ameloblastoma: a unique presentation' IOSR Journal of Dental and Medical Sciences (IOSR-IDMS). 2016/15(1): 81-5. Nalin AS, Jayakrishnan R, Ziaudeen S, Ameena M, Naziya NJ, 'Proliferative veruccous leukoplakia: an extensive red and white lesion' IJSS Case Reports & Reviews. 2015/2(1): 9-12. Narayanan NJ, Karunakaran V, Paul W, Venugopal K, Sujathan K, Maiti KK. 'Aggregation induced Raman scattering of squaraine dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015/70(1): 145-52. Pereira SC, Jissa VT, George JK, Thomas S, Sujathan K. 'Validation of CK-19 and HBME-1 expression pattern in FNACs to suplement morphological evaluation for preoperative diagnosis of thyroid lesions' British Journal of Medicine & Medical Research. 2016/13(4): Article ID: BJMMR-23061. Pereira SC, Jissa VT, Thomas S, Preethi TR, Remani P, Sujathan K. 'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bcl-2: its significance in the differential diagnosis of follicular cell derived thyroid tumors in FNAC' International Journal of Current Research. 2015/7(10): 21780-88 Pilliol VS, Bnagyalekshmi KR, Koshy RC. 'Knowledge, attitude and practice of current cardiopulmonary resuscitation guidelines: a survey among nurses' IOSR Journal of Nursing and Health Science. 2016/5(2): 9-11. Prabhu DJ, Koshy RC, Mampilly AP. 'A role of emla/paravertebral block in effectively controlling post mastectomy pain in a patient with advanced parkinsonism: a case report' The Anaesthesiologist. 2015/1(6): 7-8. Prabitha VG, Suchetha S, Jayanthi JL, Baiju KV, Rema P, Anuraj K, Mathews A, Sebastian P, Subhash N.: Detection of cervical lesions by multivariate analysis of diffuse reflectance spectra: a clinical study' Lasers in Medical Science. 2016/31(1): 6-75. Preethi GU, Joseph MM, Unnikrishnan BS,	58	
Dental and Medical Sciences (IOSR-IDMS). 2016/15(1): 81-5. Nalin AS, Jayakrishnan R, Ziaudeen S, Ameena M, Naziya NJ: Proliferative veruccous leukoplakia: an extensive red and white lesion' IJSS Case Reports & Reviews. 2015/2(1): 9-12. Narayanan N, Karunakaran V, Paul W, Venugopal K, Sujathan K, Maiti KK. 'Aggregation induced Raman scattering of squaraine dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015/70(1): 145-52. Pereira SC, Jissa VT, George JK, Thomas S, Sujathan K. 'Validation of CK-19 and HBME-1 expression pattern in FNACs to supplement morphological evaluation for preoperative diagnosis of thyroid lesions' British Journal of Medicine & Medical Research. 2016/13(4): Article ID: BJMMR-23061. Pereira SC, Jissa VT, Thomas S, Preethi TR, Remani P, Sujathan K. 'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bcl-2: its significance in the differential diagnosis of follicular cell derived thyroid tumors in FNAC' international Journal of Current Research. 2015/7(10): 21780-88 Pillai VS, Bhagyalekshmi KR, Koshy RC. 'Knowledge, attitude and practice of current cardiopulmonary resuscitation guidelines: a survey among nurses' IOSR Journal of Nursing and Health Science. 2016/5(2): 9-11. Prabhu DJ, Koshy RC, Mampilly AP.'A role of emla/paravertebral block in effectively controlling post mastectomy pain in a patient with advanced parkinsonism: a case report' The Anaesthesiologist. 2015/1(6): 7-8. Prabitha VG, Suchetha S, Jayanthi JL, Baiju KV, Rema P, Anuraj K, Mathews A, Sebastian P, Subhash N. 'Detection of cervical lesions by multivariate analysis of diffuse reflectance spectra: a clinical study Lasers in Medical Science. 2016/31(1): 67-75. Preethi GU, Joseph MM, Unnikrishnan BS, Shiji R, Sreelekha TT. 'Biomedical applications of natural polymer based nanofibrous scaffolds' International Journal of Medical Nano Research. 2015/2: Article ID: 2. Priyakumari T, Sivarajan V, Mony RP, Venugopal M. 'Wilms tumor in a	FO	series analysis and literature review' Middle East Journal of Cancer. 2015/6(2): 115-20.
 Nalin AS, Jayakrishnan R, Ziaudeen S, Ameena M, Naziya NJ. Proliferative veruccous leukoplakia: an extensive red and white lesion' IJSS Case Reports & Reviews. 2015/2(1): 9-12. Narayanan N, Karunakaran V, Paul W. Venugopal K, Sujathan K. Maiti KK. 'Aggregation induced Raman scattering of squaraine dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015/70(1): 145-52. Pereira SC, Jissa VT, George JK, Thomas S, Sujathan K. 'Validation of CK-19 and HBME-1 expression pattern in FNACs to supplement morphological evaluation for preoperative diagnosis of thyroid lesions' British Journal of Medicine & Medical Research. 2016/13(4): Article ID: BJMMR-23061. Pereira SC, Jissa VT, Thomas S, Preethi TR, Remani P, Sujathan K. 'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bcl-2: its significance in the differential diagnosis of follicular cell derived thyroid tumors in FNAC' International Journal of Current Research. 2015/7(10): 21780-88 Pillai VS, Bhagyalekshmi KR, Koshy RC. 'Knowledge, attitude and practice of current cardiopulmonary resuscitation guidelines: a survey among nurses' IOSR Journal of Nursing and Health Science. 2016/5(2): 9-11. Prabhu DJ, Koshy RC, Mampilly AP: A role of emla/paravertebral block in effectively controlling post mastectomy pain in a patient with advanced parkinsonism: a case report' The Anaesthesiologist. 2015/1(6): 7-8. Prabitiha VG, Suchetho S, Jayanthi JL, Baiju KV, Rema P, Anuraj K, Mathews A, Esbastian P, Subhash N: 'Detection of cervical lesions by multivariate analysis of diffuse reflectance spectra: a clinical study Lasers in Medical Science. 2016/31(1): 67-75. Preethi GU, Joseph MM, Unnikrishnan BS, Shiji R, Sreelekha TT. 'Biomedical applications of natural polymer based nanofibrous scaffolds' International Journal of Medical Nano Research. 2015/2: Article ID: 2. Priyakumari T, Si	37	
 lesion' IJSS Case Reports & Reviews. 2015/2(1): 9-12. Narayanan N, Karunakaran V, Paul W, Venugopal K, Sujathan K, Maiti KK. 'Aggregation induced Raman scattering of squaraine dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015/70(1): 145-52. Pereira SC, Jissa VT, George JK, Thomas S, Sujathan K. 'Validation of CK-19 and HBME-1 expression pattern in FNACs to supplement morphological evaluation for preoperative diagnosis of thyroid lesions' British Journal of Medicine & Medical Research. 2016/13(4): Article ID: BJMMR-23061. Pereira SC, Jissa VT, Thomas S, Preethi TR, Remani P, Sujathan K. 'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bcl-2: its significance in the differential diagnosis of follicular cell derived thyroid tumors in FNAC' International Journal of Current Research. 2015/7(10): 21780-88 Pillai VS, Bhagyalekshmi KR, Koshy RC' Knowledge, attitude and practice of current cardiopulmonary resuscitation guidelines: a survey among nurses' IOSR Journal of Nursing and Health Science. 2016/5(2): 9-11. Prabhu DJ, Koshy RC, Mampilly AP.' A role of emla/paravertebral block in effectively controlling post mastectomy pain in a patient with advanced parkinsonism: a case report 'The Anaesthesiologist. 2015/1(6): 7-8. Prabitha VG, Suchetha S, Jayanthi JL, Baiju KV, Rema P, Anuraj K, Mathews A, Sebastian P, Subhash N. 'Detection of cervical lesions by multivariate analysis of diffuse reflectance spectra: a clinical study Lasers in Medical Science. 2016/31(1): 67-75. Preethi GU, Joseph MM, Unnikrishnan BS, Shiji R, Sreelekha TT. 'Biomedical applications of natural polymer based nanofibrous scaffolds' International Journal of Medical Nano Research. 2015/2: Article ID: 2. Priya KL. 'Chemotherapy protocols for breast cancer' Indian Journal of Oncology Nursing. 2015/13(1): 14-7. Priyakumari T, Sivarajan V, Mony RP, Venugopal M. 'Wilms tumo	60	Dental and Medical Sciences (IOSR-JDMS). 2016/15(1): 81-5. Nalin AS Javakrishnan P. Ziaudoon S. Amoona M. Naziva NII 'Proliforativa varussous laukoplakia: an extensive red and white
 Narayanan N, Karunakaran V, Paul W, Venugopal K, Sujathan K, Maiti KK 'Aggregation induced Raman scattering of squaraine dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015/70(1): 145-52. Pereira SC, Jissa VT, George JK, Thomas S, Sujathan K. 'Validation of CK-19 and HBME-1 expression pattern in FNACs to supplement morphological evaluation for preoperative diagnosis of thyroid lesions' British Journal of Medicine & Medical Research. 2016/13(4): Article ID: BJMMR-23061. Pereira SC, Jissa VT, Thomas S, Preethi TR, Remani P, Sujathan K. 'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bcl-2: its significance in the differential diagnosis of follicular cell derived thyroid tumors in FNAC' International Journal of Current Research. 2015/7(10): 21780-88 Pillai VS, Bhagyalekshmi KR, Koshy RC. 'Knowledge, attitude and practice of current cardiopulmonary resuscitation guidelines: a survey among nurses' IOSR Journal of Nursing and Health Science. 2016/5(2): 9-11. Prabhu DJ, Koshy RC, Mampilly AP. 'A role of emla/paravertebral block in effectively controlling post mastectomy pain in a patient with advanced parkinsonism: a case report' The Anaesthesiologist. 2015/1(6): 7-8. Prabitha VG, Suchetha S, Jayanthi JL, Baiju KV, Rema P, Anuraj K, Mathews A, Sebastian P, Subhash N. 'Detection of cervical lesions by multivariate analysis of diffuse reflectance spectra: a clinical study' Lasers in Medical Science. 2016/31(1): 67-75. Preetri GU, Joseph MM, Unnikrishnan BS, Shiji R, Sreelekha TT. 'Biomedical applications of natural polymer based nanofibrous scaffolds' International Journal of Medical Nano Research. 2015/2: Article ID: 2. Priya KL. 'Chemotherapy protocols for breast cancer' Indian Journal of Oncology Nursing. 2015/13(1): 14-7. Priyakumari T, Sivarajan V, Mony RP, Venugopal M. 'Wilms tumor in a child with bilatera	60	
 dye: implementation in diagnosis of cervical cancer dysplasia by SERS imaging' Biosensors and Bioelectronics. 2015/70(1): 145-52. Pereira SC, JissaVT, George JK, Thomas S, Sujathan K. 'Validation of CK-19 and HBME-1 expression pattern in FNACs to supplement morphological evaluation for preoperative diagnosis of thyroid lesions' British Journal of Medicine & Medical Research. 2016/13(4): Article ID: BJMMR-23061. Pereira SC, JissaVT, Thomas S, Preethi TR, Remani P, Sujathan K. 'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bcl-2: its significance in the differential diagnosis of follicular cell derived thyroid tumors in FNAC' International Journal of Current Research. 2015/7(10): 21780-88 Pillai VS, Bhagyalekshmi KR, Koshy RC: Knowledge, attitude and practice of current cardiopulmonary resuscitation guidelines: a survey among nurses' IOSR Journal of Nursing and Health Science. 2016/5(2): 9-11. Prabhu DJ, Koshy RC, Mampilly AP: 'A role of emla/paravertebral block in effectively controlling post mastectomy pain in a patient with advanced parkinsonism: a case report The Anaesthesiologist. 2015/1 (6): 7-8. Prabitha VG, Suchetha S. Jayanthi JL. Baiju KV, Rema P. Anuraj K, Mathews A, Sebastian P, Subhash N. 'Detection of cervical lesions by multivariate analysis of diffuse reflectance spectra: a clinical study' Lasers in Medical Science. 2016/31(1): 67-75. Preethi GU, Joseph MM, Unnikrishnan BS, Shiji R, Sreelekha TT: Biomedical applications of natural polymer based nanofibrous scaffolds' International Journal of Medical Nano Research. 2015/2: Article ID: 2. Priya KL: 'Chemotherapy protocols for breast cancer' Indian Journal of Oncology Nursing. 2015/13(1): 14-7. Priyakumari T, Sivarajan V, Mony RP, Venugopal M. 'Wilms tumor in a child with bilateral polycystic kidneys and PHACE syndrome: successful treatment outcome using partial nephrectomy and chemotherapy Journal of P	61	Narryanan N. Karunakaran V. Paul W. Venugonal K. Suigthon K. Maiti KK. 'Aggregation induced Raman scattering of squaraine
 52. Pereira SC, Jissa VT, George JK, Thomas S, Sujathan K. 'Validation of CK-19 and HBME-1 expression pattern in FNACs to supplement morphological evaluation for preoperative diagnosis of thyroid lesions' British Journal of Medicine & Medical Research. 2016/13(4): Article ID: BJMMR-23061. Pereira SC, Jissa VT, Thomas S, Preethi TR, Remani P, Sujathan K. 'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bcl-2: its significance in the differential diagnosis of follicular cell derived thyroid tumors in FNAC' International Journal of Current Research. 2015/7(10): 21780-88 Pillai VS, Bhagyalekshmi KR, Koshy RC. 'Knowledge, attitude and practice of current cardiopulmonary resuscitation guidelines: a survey among nurses' IOSR Journal of Nursing and Health Science. 2016/5(2): 9-11. Prabhu DJ, Koshy RC, Mampilly AP. 'A role of emla/paravertebral block in effectively controlling post mastectomy pain in a patient with advanced parkinsonism: a case report'The Anaesthesiologist. 2015/1(6): 7-8. Prabitha VG, Suchetha S, Jayanthi JL, Baiju KV, Rema P, Anuraj K, Mathews A, Sebastian P, Subhash N. 'Detection of cervical lesions by multivariate analysis of diffuse reflectance spectra: a clinical study' Lasers in Medical Science. 2016/31(1): 67-75. Preethi GU, Joseph MM, Unnikrishnan BS, Shiji R, Sreelekha TT. 'Biomedical applications of natural polymer based nanofibrous scaffolds' International Journal of Medical Nano Research. 2015/2: Article ID: 2. Priya KL: 'Chemotherapy protocols for breast cancer' Indian Journal of Oncology Nursing. 2015/13(1): 14-7. Priyakumari T, Sivarajan V, Mony RP, Venugopal M. 'Wilms tumor in a child with bilateral polycystic kidneys and PHACE syndrome: successful treatment outcome using partial nephrectomy and chemotherapy' Journal of Pediatric Hematology Oncology. 2016/38(1): 6-9. Rajitha L, James FV, Geetha N, Prabhakaran P. 'Targeted agents		
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Research. 2016/13(4): Article ID: BJMMR-23061. Pereira SC, Jissa VT, Thomas S, Preethi TR, Remani P, Sujathan K. 'Over expression of cytosolic galectin-3 correlates with anti-apoptotic protein Bcl-2: its significance in the differential diagnosis of follicular cell derived thyroid tumors in FNAC' International Journal of Current Research. 2015/7(10): 21780-88 Pillai VS, Bhagyalekshmi KR, Koshy RC: 'Knowledge, attitude and practice of current cardiopulmonary resuscitation guidelines: a survey among nurses' IOSR Journal of Nursing and Health Science. 2016/5(2): 9-11. Prabhu DJ, Koshy RC, Mampilly AP. 'A role of emla/paravertebral block in effectively controlling post mastectomy pain in a patient with advanced parkinsonism: a case report' The Anaesthesiologist. 2015/1(6): 7-8. Prabitha VG, Suchetha S, Jayanthi JL, Baiju KV, Rema P, Anuraj K, Mathews A, Sebastian P, Subhash N. 'Detection of cervical lesions by multivariate analysis of diffuse reflectance spectra: a clinical study' Lasers in Medical Science. 2016/31(1): 67-75. Preethi GU, Joseph MM, Unnikrishnan BS, Shiji R, Sreelekha TT. 'Biomedical applications of natural polymer based nanofibrous scaffolds' International Journal of Medical Nano Research. 2015/2: Article ID: 2. Priya KL: 'Chemotherapy protocols for breast cancer' Indian Journal of Oncology Nursing. 2015/13(1): 14-7. Priyakumari T, Sivarajan V, Mony RP, Venugopal M. 'Wilms tumor in a child with bilateral polycystic kidneys and PHACE syndrome: successful treatment outcome using partial nephrectomy and chemotherapy' Journal of Pediatric Hematology Oncology. 2016/38(1): 6-9. Raj B, Patel FD, Chakraborty S, Kapoor R, Sharma SC, Kumaravelu S, Raghukumar P, Aprem AS. 'Bladder-rectum spacer balloon versus vaginal gauze packing in high dose rate brachytherapy in cervical cancer: a randomised study (Part II)' Clinical Oncology . 2015/27(12): 713-9. Rajitha L, James FV, Geetha N, Prabhakaran P. 'Targeted agents in epithelial ovarian cancer: review on emerging therapies and future developments' ecanc	02	
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 Pillai VS, Bhagyalekshmi KR, Koshy RC. 'Knowledge, attitude and practice of current cardiopulmonary resuscitation guidelines: a survey among nurses' IOSR Journal of Nursing and Health Science . 2016/5(2): 9-11. Prabhu DJ, Koshy RC, Mampilly AP. 'A role of emla/paravertebral block in effectively controlling post mastectomy pain in a patient with advanced parkinsonism: a case report' The Anaesthesiologist. 2015/1 (6): 7-8. Prabitha VG, Suchetha S, Jayanthi JL, Baiju KV, Rema P, Anuraj K, Mathews A, Sebastian P, Subhash N. 'Detection of cervical lesions by multivariate analysis of diffuse reflectance spectra: a clinical study' Lasers in Medical Science. 2016/31(1): 67-75. Preethi GU, Joseph MM, Unnikrishnan BS, Shiji R, Sreelekha TT. 'Biomedical applications of natural polymer based nanofibrous scaffolds' International Journal of Medical Nano Research. 2015/2: Article ID: 2. Priya KL 'Chemotherapy protocols for breast cancer' Indian Journal of Oncology Nursing. 2015/13(1): 14-7. Priyakumari T, Sivarajan V, Mony RP, Venugopal M. 'Wilms tumor in a child with bilateral polycystic kidneys and PHACE syndrome: successful treatment outcome using partial nephrectomy and chemotherapy' Journal of Pediatric Hematology Oncology. 2016/38(1): 6-9. Rai B, Patel FD, Chakraborty S, Kapoor R, Sharma SC, Kumaravelu S, Raghukumar P, Aprem AS. 'Bladder-rectum spacer balloon versus vaginal gauze packing in high dose rate brachytherapy in cervical cancer: a randomised study (Part II)' Clinical Oncology . 2015/27(12): 713-9. Rajitha L, James FV, Geetha N, Prabhakaran P. 'Targeted agents in epithelial ovarian cancer: review on emerging therapies and future developments' ecancermedicalscience. 2016/10(1): Article ID: 626. Rajitha L, Prem S, Koshy SM, Jayasudha AV. 'Hypercalcaemia with disseminated osteolytic lesions: a rare presentation of 		
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 Prabitha VG, Suchetha S, Jayanthi JL, Baiju KV, Rema P, Anuraj K, Mathews A, Sebastian P, Subhash N. 'Detection of cervical lesions by multivariate analysis of diffuse reflectance spectra: a clinical study' Lasers in Medical Science. 2016/31(1): 67-75. Preethi GU, Joseph MM, Unnikrishnan BS, Shiji R, Sreelekha TT. 'Biomedical applications of natural polymer based nanofibrous scaffolds' International Journal of Medical Nano Research. 2015/2: Article ID: 2. Priya KL. 'Chemotherapy protocols for breast cancer' Indian Journal of Oncology Nursing. 2015/13(1): 14-7. Priyakumari T, Sivarajan V, Mony RP, Venugopal M. 'Wilms tumor in a child with bilateral polycystic kidneys and PHACE syndrome: successful treatment outcome using partial nephrectomy and chemotherapy' Journal of Pediatric Hematology Oncology. 2016/38(1): 6-9. Rai B, Patel FD, Chakraborty S, Kapoor R, Sharma SC, Kumaravelu S, Raghukumar P, Aprem AS. 'Bladder-rectum spacer balloon versus vaginal gauze packing in high dose rate brachytherapy in cervical cancer: a randomised study (Part II)' Clinical Oncology . 2015/27(12): 713-9. Rajitha L, James FV, Geetha N, Prabhakaran P. 'Targeted agents in epithelial ovarian cancer: review on emerging therapies and future developments' ecancermedicalscience. 2016/10(1): Article ID: 626. Rajitha L, Prem S, Koshy SM, Jayasudha AV. 'Hypercalcaemia with disseminated osteolytic lesions: a rare presentation of 		
by multivariate analysis of diffuse reflectance spectra: a clinical study' Lasers in Medical Science. 2016/31(1): 67-75. Preethi GU, Joseph MM, Unnikrishnan BS, Shiji R, Sreelekha TT. 'Biomedical applications of natural polymer based nanofibrous scaffolds' International Journal of Medical Nano Research. 2015/2: Article ID: 2. Priya KL. 'Chemotherapy protocols for breast cancer' Indian Journal of Oncology Nursing. 2015/13(1): 14-7. Priyakumari T, Sivarajan V, Mony RP, Venugopal M. 'Wilms tumor in a child with bilateral polycystic kidneys and PHACE syndrome: successful treatment outcome using partial nephrectomy and chemotherapy' Journal of Pediatric Hematology Oncology. 2016/38(1): 6-9. Rai B, Patel FD, Chakraborty S, Kapoor R, Sharma SC, Kumaravelu S, Raghukumar P, Aprem AS. 'Bladder-rectum spacer balloon versus vaginal gauze packing in high dose rate brachytherapy in cervical cancer: a randomised study (Part II)' Clinical Oncology . 2015/27(12): 713-9. Rajitha L, James FV, Geetha N, Prabhakaran P. 'Targeted agents in epithelial ovarian cancer: review on emerging therapies and future developments' ecancermedicalscience. 2016/10(1): Article ID: 626. Rajitha L, Prem S, Koshy SM, Jayasudha AV. 'Hypercalcaemia with disseminated osteolytic lesions: a rare presentation of	66	Prabitha VG, Suchetha S, Jayanthi JL , Baiju KV, Rema P , Anuraj K, Mathews A , Sebastian P , Subhash N. Detection of cervical lesions
 Preethi GU, Joseph MM, Unnikrishnan BS, Shiji R, Sreelekha TT. 'Biomedical applications of natural polymer based nanofibrous scaffolds' International Journal of Medical Nano Research. 2015/2: Article ID: 2. Priya KL. 'Chemotherapy protocols for breast cancer' Indian Journal of Oncology Nursing. 2015/13(1): 14-7. Priyakumari T, Sivarajan V, Mony RP, Venugopal M. 'Wilms tumor in a child with bilateral polycystic kidneys and PHACE syndrome: successful treatment outcome using partial nephrectomy and chemotherapy' Journal of Pediatric Hematology Oncology. 2016/38(1): 6-9. Rai B, Patel FD, Chakraborty S, Kapoor R, Sharma SC, Kumaravelu S, Raghukumar P, Aprem AS. 'Bladder-rectum spacer balloon versus vaginal gauze packing in high dose rate brachytherapy in cervical cancer: a randomised study (Part II)' Clinical Oncology . 2015/27(12): 713-9. Rajitha L, James FV, Geetha N, Prabhakaran P. 'Targeted agents in epithelial ovarian cancer: review on emerging therapies and future developments' ecancermedicalscience. 2016/10(1): Article ID: 626. Rajitha L, Prem S, Koshy SM, Jayasudha AV. 'Hypercalcaemia with disseminated osteolytic lesions: a rare presentation of 		by multivariate analysis of diffuse reflectance spectra: a clinical study' Lasers in Medical Science. 2016/31(1): 67-75.
 Priya KL. 'Chemotherapy protocols for breast cancer' Indian Journal of Oncology Nursing. 2015/13(1): 14-7. Priyakumari T, Sivarajan V, Mony RP, Venugopal M. 'Wilms tumor in a child with bilateral polycystic kidneys and PHACE syndrome: successful treatment outcome using partial nephrectomy and chemotherapy' Journal of Pediatric Hematology Oncology. 2016/38(1): 6-9. Rai B, Patel FD, Chakraborty S, Kapoor R, Sharma SC, Kumaravelu S, Raghukumar P, Aprem AS. 'Bladder-rectum spacer balloon versus vaginal gauze packing in high dose rate brachytherapy in cervical cancer: a randomised study (Part II)' Clinical Oncology . 2015/27(12): 713-9. Rajitha L, James FV, Geetha N, Prabhakaran P. 'Targeted agents in epithelial ovarian cancer: review on emerging therapies and future developments' ecancermedicalscience. 2016/10(1): Article ID: 626. Rajitha L, Prem S, Koshy SM, Jayasudha AV. 'Hypercalcaemia with disseminated osteolytic lesions: a rare presentation of 	67	Preethi GU, Joseph MM, Unnikrishnan BS, Shiji R, Sreelekha TT. 'Biomedical applications of natural polymer based nanofibrous
 Priyakumari T, Sivarajan V, Mony RP, Venugopal M. 'Wilms tumor in a child with bilateral polycystic kidneys and PHACE syndrome: successful treatment outcome using partial nephrectomy and chemotherapy' Journal of Pediatric Hematology Oncology. 2016/38(1): 6-9. Rai B, Patel FD, Chakraborty S, Kapoor R, Sharma SC, Kumaravelu S, Raghukumar P, Aprem AS. 'Bladder-rectum spacer balloon versus vaginal gauze packing in high dose rate brachytherapy in cervical cancer: a randomised study (Part II)' Clinical Oncology . 2015/27(12): 713-9. Rajitha L, James FV, Geetha N, Prabhakaran P. 'Targeted agents in epithelial ovarian cancer: review on emerging therapies and future developments' ecancermedicalscience. 2016/10(1): Article ID: 626. Rajitha L, Prem S, Koshy SM, Jayasudha AV. 'Hypercalcaemia with disseminated osteolytic lesions: a rare presentation of 		scaffolds' International Journal of Medical Nano Research. 2015/2: Article ID: 2.
successful treatment outcome using partial nephrectomy and chemotherapy' Journal of Pediatric Hematology Oncology. 2016/38(1): 6-9. Rai B, Patel FD, Chakraborty S, Kapoor R, Sharma SC, Kumaravelu S, <i>Raghukumar P</i> , Aprem AS. 'Bladder-rectum spacer balloon versus vaginal gauze packing in high dose rate brachytherapy in cervical cancer: a randomised study (Part II)' Clinical Oncology . 2015/27(12): 713-9. Rajitha L, James FV, Geetha N, Prabhakaran P. 'Targeted agents in epithelial ovarian cancer: review on emerging therapies and future developments' ecancermedicalscience. 2016/10(1): Article ID: 626. Rajitha L, Prem S, Koshy SM, Jayasudha AV. 'Hypercalcaemia with disseminated osteolytic lesions: a rare presentation of	68	Priya KL. 'Chemotherapy protocols for breast cancer' Indian Journal of Oncology Nursing. 2015/13(1): 14-7.
 2016/38(1): 6-9. Rai B, Patel FD, Chakraborty S, Kapoor R, Sharma SC, Kumaravelu S, <i>Raghukumar P</i>, Aprem AS. 'Bladder-rectum spacer balloon versus vaginal gauze packing in high dose rate brachytherapy in cervical cancer: a randomised study (Part II)' Clinical Oncology . 2015/27(12): 713-9. <i>Rajitha L, James FV, Geetha N, Prabhakaran P</i>. 'Targeted agents in epithelial ovarian cancer: review on emerging therapies and future developments' ecancermedicalscience. 2016/10(1): Article ID: 626. <i>Rajitha L, Prem S, Koshy SM, Jayasudha AV</i>. 'Hypercalcaemia with disseminated osteolytic lesions: a rare presentation of 	69	Priyakumari T, Sivarajan V, Mony RP, Venugopal M. 'Wilms tumor in a child with bilateral polycystic kidneys and PHACE syndrome:
 Rai B, Patel FD, Chakraborty S, Kapoor R, Sharma SC, Kumaravelu S, <i>Raghukumar P</i>, Aprem AS. 'Bladder-rectum spacer balloon versus vaginal gauze packing in high dose rate brachytherapy in cervical cancer: a randomised study (Part II)' Clinical Oncology . 2015/27(12): 713-9. Rajitha L, James FV, Geetha N, Prabhakaran P. 'Targeted agents in epithelial ovarian cancer: review on emerging therapies and future developments' ecancermedicalscience. 2016/10(1): Article ID: 626. Rajitha L, Prem S, Koshy SM, Jayasudha AV. 'Hypercalcaemia with disseminated osteolytic lesions: a rare presentation of 		successful treatment outcome using partial nephrectomy and chemotherapy' Journal of Pediatric Hematology Oncology.
 Rai B, Patel FD, Chakraborty S, Kapoor R, Sharma SC, Kumaravelu S, <i>Raghukumar P</i>, Aprem AS. 'Bladder-rectum spacer balloon versus vaginal gauze packing in high dose rate brachytherapy in cervical cancer: a randomised study (Part II)' Clinical Oncology . 2015/27(12): 713-9. Rajitha L, James FV, Geetha N, Prabhakaran P. 'Targeted agents in epithelial ovarian cancer: review on emerging therapies and future developments' ecancermedicalscience. 2016/10(1): Article ID: 626. Rajitha L, Prem S, Koshy SM, Jayasudha AV. 'Hypercalcaemia with disseminated osteolytic lesions: a rare presentation of 		2016/38(1): 6-9.
2015/27(12): 713-9. 71 Rajitha L, James FV, Geetha N, Prabhakaran P. 'Targeted agents in epithelial ovarian cancer: review on emerging therapies and future developments' ecancermedicalscience. 2016/10(1): Article ID: 626. 72 Rajitha L, Prem S, Koshy SM, Jayasudha AV. 'Hypercalcaemia with disseminated osteolytic lesions: a rare presentation of	70	Rai B, Patel FD, Chakraborty S, Kapoor R, Sharma SC, Kumaravelu S, <i>Raghukumar P</i> , Aprem AS. 'Bladder-rectum spacer balloon
71 Rajitha L, James FV, Geetha N, Prabhakaran P. 'Targeted agents in epithelial ovarian cancer: review on emerging therapies and future developments' ecancermedicalscience. 2016/10(1): Article ID: 626. 72 Rajitha L, Prem S, Koshy SM, Jayasudha AV. 'Hypercalcaemia with disseminated osteolytic lesions: a rare presentation of		versus vaginal gauze packing in high dose rate brachytherapy in cervical cancer: a randomised study (Part II)' Clinical Oncology .
71 Rajitha L, James FV, Geetha N, Prabhakaran P. 'Targeted agents in epithelial ovarian cancer: review on emerging therapies and future developments' ecancermedicalscience. 2016/10(1): Article ID: 626. 72 Rajitha L, Prem S, Koshy SM, Jayasudha AV. 'Hypercalcaemia with disseminated osteolytic lesions: a rare presentation of		2015/27(12): 713-9.
72 Rajitha L, Prem S, Koshy SM, Jayasudha AV. 'Hypercalcaemia with disseminated osteolytic lesions: a rare presentation of	71	Rajitha L, James FV, Geetha N, Prabhakaran P. Targeted agents in epithelial ovarian cancer: review on emerging therapies and
72 Rajitha L, Prem S, Koshy SM, Jayasudha AV. 'Hypercalcaemia with disseminated osteolytic lesions: a rare presentation of		future developments' ecancermedicalscience. 2016/10(1): Article ID: 626.
childhood acute lymphoblastic leukaemia' ecancermedicalscience. 2015/9(1): Article ID: 542.	72	Rajitha L, Prem S, Koshy SM, Jayasudha AV. 'Hypercalcaemia with disseminated osteolytic lesions: a rare presentation of
		childhood acute lymphoblastic leukaemia' ecancermedicalscience. 2015/9(1): Article ID: 542.

73	Rajitha L, Ratheesan K, Sukumaran R, Nair SP. 'Metastatic lobular carcinoma of breast mimics primary cervix carcinoma: two
	case reports and a review of the literature' ecancermedicalscience . 2015/9(1): Article ID: 571.
74	Ramakrishnan R, Koshy RC, Rajasree O. 'Efficacy of Dexmedetomidine for endotracheal tube tolerance, analgesia and sedation: a
	prospective randomized double blind controlled trial 'Egyptian Journal of Anaesthesia . 2016/32(1): 131-6.
75	Ranjith S, Muralee M, Ahamed MI . 'Colorectal metastasis vs. second primary: diagnostic dilemma' Kerala Surgical Journal .
	2015/22(1): 63-9.
76	Reghu KS, Binitha R, Priyakumari T, Kusumakumary P. 'Mucoepidermoid carcinoma of parotid gland as a subsequent neoplasm in
	children treated for acute lymphoblastic leukemia' Journal of Cancer Research and Therapeutics . 2015/11(3): Article ID: 655.
77	Rema P, Muralee M, Jayasudha AV, Suchetha S, Ahamed MI. 'Carcinoma breast with endometrial metastasis' Indian Journal of
	Gynecologic Oncology. 2015/13(1): Article ID: 20.
78	Rema P, Suchetha S, Ahamed MI. 'Primary malignant melanoma of vagina treated by total pelvic exenteration' Indian Journal of
, 0	Surgery, 2016/78(1): 65.
79	Rema P, Suchetha S, Kumar A, Ahamed MI. 'The role of adjuvant hysterectomy after radiotherapy in cervical cancer' Indian
//	
80	Journal of Surgery. 2015/77(Suppl.3): 902-5. Sabale A, Prahladan A, Kalidos K, Koshy SM, Ramachandran K. 'Unusual continuous intra-abdominal spread of primary testicular
00	
81	lymphoma along the spermatic cord and gonadal vessels: report of 2 cases' Radiology Case Reports. 2015/10(4): 76-80.
01	Sajeed A, Haridas G, Joseph J, Mathews S, Preethi TR. 'Carcinoma lung presenting as ovarian mass: a case report' Journal of
02	Medical Science and Clinical Research. 2015/3(11): 8417-21.
82	Santhi S, Sureshkumar R, Vijay S, Jayadevan S, Geetha N, Hariharan S. 'Characterization of CEBPA mutations and polymorphisms
	and their prognostic relevance in de novo acute myeloid leukemia patients' Asian Pacific Journal of Cancer Prevention.
	2015/16(9): 3785-92.
83	Kumar SN, lype EM, Thomas S, Sankar UV. 'Adenoid cystic carcinoma of the trachea' Indian Journal of Surgical Oncology.
	2016/7(1): 62-6.
84	Saritha VN, George JK, Jaleel A, Surendran A, Saravanakumar M, Kalavathy MC, Somanathan T, Rema P, Sujathan K. 'Analysis of
	differentially expressed proteins in the exfoliated cells of normal and squamous cell carcinoma of the uterine cervix to define
	candidate markers for cervical cancer' International Journal of Biochemistry and Biotechnology . 2016/5(1): 626-36.
85	Sebastian P, Mathew A, George PS, Amma PG, Kalavathy MC. 'Population Cancer Registry, Trivandrum district' Caner Registry
	Abstract (CRAB). 2015/20(1): 103-10.
86	Sen A. 'Engorged myometrial vein sign in uterine torsion' European Journal of Obstetrics & Gynecology and Reproductive
	Biology. 2016/198(1): 176-7
87	Shafeek S, Muralee M, Ahamed MI . 'Pulmonary metastasis and intrathoracic lymph node involvement from colorectal cancer:
07	
88	the bizarre journeys of a renegade cell' Kerala Surgical Journal. 2016/23(1): 79-82. Shajy L, Paul V, Marichamy P, Sujathan K , Sruthi VS. 'Classification of sputum cytology images using radical bias network for early
00	, , , , , , , , , , , , , , , , , , , ,
89	detection of lung cancer' International Journal of Applied Engineering Research. 2015/10(70): 216-25 Sharath S, Muralee M, Ahamed MI. Therapeutic dilemmas in an oligometastatic renal cell carcinoma' Kerala Surgical Journal.
07	
90	2016/23(1): 67-8.
90	Singh R, Krishnan R, George NA, Balagopal PG, Ahamed MI, Sebastian P. 'Bilateral chylothorax following neck dissection: case
0.1	report and review of literature' Indian Journal of Surgical Oncology. 2016/7(1): 115-8.
91	Singh RK, Leekha N, Varghese BT, Anila KR. 'Primary melanoma of infratemporal fossa: a case report' Indian Journal of Surgical
00	Oncology. 2015/6(3):276-9.
92	Sivadas VP, Gulati S, Iype EM, Balan A, Kannan S. 'Prognostic implication of the loss of TGFBR2 expression in oral carcinoma'
	Neoplasma . 2015/62(3): 398-404.
93	Smitha P, Paul V, Marichamy P, Sujathan K, Jalal BN. Scoring of HER2 expression from immunohistochemistry images of breast
	cytology' International Journal of Applied Engineering Research. 2015/10(70): 145-53.
94	Sreelekha R. 'Diagnostic measures in cancer' Indian Journal of Oncology Nursing. 2016/15(1): 8-13.
95	Sreelesh KP, Nair SG, Prabhakaran P. 'Kidney stones and crushed bones secondary to hyperparathyroidism' Proceedings (Baylor
	University Medical Centre), 2016/29(1): 44-5.
96	Subha R, Koshy RC. 'Reactive thrombocytosis and pseudohyperkalemia entities we come across occasionally' Egyptian Journal o
	Anaesthesia. 2015/31(3): 265-6.
97	Sudha P, Koshy RC. 'Analysis of the effects of drugs and techniques used in anesthesia on tumour recurrence, metastasis and
''	survival in ovarian serous adenocarcinoma' International Surgery Journal. 2016/3(1): 62-70.
98	Sudha P, Koshy RC. 'Excision of recurrent clival giant cell tumour by endoscopic skull base surgery - anesthetic problems and
	management: a case report'The Anaesthesiologist. 2016/1(8): 16-8.
	· · · · · · · · · · · · · · · · · · ·

99	Sudha P, Manju B. 'Comparison of the effect of two different doses of rocuronium on intubating conditions' International
100	Surgery Journal. 2016/3(1): 582-5. Sudha P. 'Gap analysis of major operation theatre complex of a tertiary cancer centre against NABH accreditation standards'
100	Kerala Medical Journal. 2015/8(3):84-8.
101	Sukumaran R, Nair RA, Jacob PM, Anila KR, Prem S, Binitha R, Kusumakumary P. 'Flow cytometric analysis of mixed phenotype
101	acute leukemia: experience from a tertiary oncology center' Indian Journal of Pathology and Microbiology. 2015/58(2): 181-6.
102	Sukumaran R, Somanathan T, Jayasree K. 'Odontogenic ghost cell carcinoma with pulmonary metastasis' Journal of Oral and
	Maxillofacial Pathology 2015/19(3): 371-4.
103	Kumar PS, Nair SS, Devarajan G. 'ICT skills of academic community in postgraduate colleges in Kerala' Journal of Knowledge &
	Communication Management. 2015/5(1): 83-95.
104	Sureshkumar R, Santhi S, Vijay S, Aswathy CG, Jayadevan S, Geetha N, Hariharan S. 'Mutation analysis of IDH1/2 genes in
	unselected de novo acute myeloid leukaemia patients in India: identification of a novel IDH2 mutation' Asian Pacific Journal of
	Cancer Prevention. 2015/16(9): 4095-101.
105	Sureshkumar R, Santhi S, Vijay Ś, Prem S, Hariharan S. 'A case report of concurrent IDH1 and NPM1 mutations in a Novel
	t(X;2)(q28;p22) translocation in acute myeloid leukemia without maturation (AML-MT)' Malaysian Journal of Medical Science.
107	2015/22(5): 93-7.
106	Tangudu NK, Verma VK, Clemons TD, Beevi SS, Hay T, Mahidhara G, Raja M, <i>Nair RA</i> , Alexander LE, Patel AB, Jose J, Smith NM,
	Zdyrko B, Bourdoncle A, Luzinov I, Iyer KS, Clarke AR, Kumar LD. 'RNA interference using c-Myc-conjugated nanoparticles
107	suppresses breast and colorectal cancer models' Molecular Cancer Therapeutics. 2015/14(5): 1259-69. Vasagam NS, Krishna JKM, Giriyappa K. 'A software model for estimation and prediction of unevenly spaced livestock
107	
108	population' International Journal of Advanced Research in Computer Science and Software Engineering. 2016/6(3): 747-51. Veena VS, George PS, Jayasree K, Sujathan K. 'Comparative analysis of cell morphology in sputum samples homogenized with
100	dithiothreitol, N-acetyl-L cysteine, Cytorich red preservative and in cellblock preparations to enhance the sensitivity of sputum
	cytology for the diagnosis of lung cancer. Diagnostic Cytopathology. 2015/43(7): 551-8.
109	Veerbhadran S, Venkat EH, <i>Mathew AP</i> , Dash PK, Unnikrishnan M.'A strategy for near normal reconstruction of sternum' Indian
	Journal of Thoracic and Cardiovascular Surgery. 2015/31(4): 336-9.
110	Vijayalekshmi K, George B, Sudhakar S. 'Removal of antibodies from direct antiglobulin test positive red blood cells: a
	comparison of three elution methods' Academic Medical Journal of India. 2015/3(2): 51-4.
111	Vishnu V. 'Information-seeking behavior of oncology professionals' Informatics Studies. 2016/3(1): 42-8.
	Abstracts in Journals
112	Arjunan A, Anjali VR, Mathew BS, George PS, Mathew A, Mathews A, Rajeev KR, Ratheesan K. 'Clinical outcome of medullo-blastoma in
	adults: a single institution experience.(AROI 2015 abstract)' Journal of Cancer Research and Therapeutics . 2015/11(Suppl.1):S4.
113	Arjunan A, Dhas M, Kusumakumary P, Mathew BS, Mathews A, Priyakumari T, Nair M, Binitha R. 'Pineoblastoma: a retrospective analysis
114	(AROI 2015 abstract)' Journal of Cancer Research and Therapeutics. 2015/11(Suppl.1):S5 Arjunan A, Dhas M, Mathew BS, Mathew A, Jiji V, Rajeev KR, Ratheesan K, Jayaprakash PG. 'Pineal parenchymal tumours: 5-year
114	
115	experience of a single institution (AROI 2015 abstract). Journal of Cancer Research and Therapeutics. 2015/11 (Suppl.1): Arjunan A, Dhas M, Mathew BS, Mathews A, Jiji V, Rajeev KR, Aparna MP, Ratheesan K. 'Papillary tumour of the pineal region: treatment
113	outcome of two cases (AROI 2015 Abstract)'. Journal of Cancer Research and Therapeutics. 2015/11 (Suppl.1):S4.
116	Arjunan A, Ibrahim S, Mathews S, Jayaprakash PG. 'Carcinoma breast presenting with metastasis to uterine cervix: a case report
	(AROI 2015 Abstract)' Journal of Cancer Research and Therapeutics. 2015/11(Suppl.1): S12.
117	Arjunan A, Kusumakumary P, Priyakumari T, Binitha R, Nair M, George PS, Rahman RCP, Ratheesan K. 'Retrospective analysis of
	paediatric ependymoma: a single institution experience (AROI 2015 Abstract) 'Journal of Cancer Research and Therapeutics.
	2015/11(Suppl.1): S7.
118	Azariah B, Kumar RR, Kainickal CT, Rafi M, Babu G, Ramdass B. 'Cavernous sinus metastasis from carcinoma buccal mucosa: a
1.10	rare presentation (AROI 2015 abstract)' Journal of Cancer Research and Therapeutics. 2015/11(Suppl.1): S7.
119	Azariah B, Mathews S, Kumar RP, Jayaprakash PG. 'Image based brachytherapy in carcinoma cervix using single pre-brachy MRI: a
	single institution experience (36th American Brachytherapy Society annual meeting abstract)' Brachytherapy. 2015/14(Suppl.1):
120	S63. **Azariah B, Mathews S, Mohandas S, Jiji V, Jayaprakash PG. 'Can trans abdominal ultrasound replace computer tomography
120	
	imaging for conformal intracavitory brachytherapy in carcinoma cervix?: a preliminary analysis (36th American Brachytherapy
121	Society annual meeting abstract)' Brachytherapy. 2015/14(Suppl.1): S30. Babu G, Mathews S, Azariah B, Kumar R, Jayaprakash PG. 'Outcome of cervix cancer patients treated with CT based plans- data
121	from a limited resource setting (3rd ESTRO Forum abstract)' Radiotherapy and Oncology . 2015/115(Suppl.1): S550-1.
	The order a minimod resource setting (s. 2011/01 ordinal abstract) readiotherapy and Oricology . 2013/113(3apph.1). 3330-1.

Geetha N, Surendran A, Nair SG, Lali VS, Prakash NP. 'Plasma cell leukemia: review of 40 cases from India (ESMO Asia 2015 abstract)' Annals of Oncology . 2015/26(Suppl.9): ix90. 123 Jayaprakash PG, Raju P, Arjunan A, Mathews S, Saju B, George PS, Mathew A, Mathew BS. 'Stereotactic radiosurgery for brain metastasis: analysis of outcome (AROI 2015 abstract).' Journal of Cancer Research and Therapeutics. 2015/11(Suppl.1): S4. 124 Jayapriya G, Jayasree K, Mathews A, Geetha N, Priyakumari T. 'Vascular tumours of bone: A five-year retrospective study in a tertiary care centre (APCON 2015 abstract)' Indian Journal of Pathology and Microbiology, 2015/58(Suppl. 1): S51. Jayasudha AV, Nair RA, Jacob PM, Sukumaran R, Nair SG. Frequency and distribution of peripheral T cell lymphoma in a 125 tertiary care centre in Kerala: a two year study (APCON 2015 abstract) 'Indian Journal of Pathology and Microbiology. 2015/58(Suppl.1): \$116. lithesh G, Preethi TR, Mathews A, Somanathan T, Jayasree K. 'Primary renal synovial sarcoma: a report of three cases (APCON 2015 abstract)' Indian Journal of Pathology and Microbiology. 2015/58(Suppl. 1): \$130. John N, Nayak N, Anila KR, Nair SP, Mony RP, Jayasree K. 'Guided fine needle aspiration biopsy of solid pancreatic lesions: 2 year retrospective study (APCON 2015 abstract) 'Indian Journal of Pathology and Microbiology, 2015/58(Suppl. I): S35. John J, Roshni S, Sankar AS, Sivanandan CD, Sajeed A, Raghukumar P, Shaiju VS, George PS, Jayaprakash PG. 'Dosimetric comparison of volumetric intensity-modulated ARC(RAPIDARC) therapy, intensity-modulated radiotherapy, and 3D conformal radiotherapy for primary liver tumours (7th Asian Oncology summit abstract)' European Journal of Cancer. 2015/51 (Suppl.2): Article ID:e34 Krithika E, Nair RA, Nair SP, Jayasudha AV, Sukumaran R. 'Follicular dendritic cell sarcoma: report of two cases with review of literature (APCON 2015 abstract)' Indian Journal of Pathology and Microbiology . 2015/58(Suppl.1):S118. 130 Mathews S, Anjali VR, Mohandas S, Sreelish K, Sarin B, Menon S, Jayaprakash PG. Imaging in gynecologic brachytherapy: lessons learned' Journal of Cancer Research and Therapeutics. 2015/11 (Suppl. 1): S48. 131 Mathews S, Azariah B, Babu G, Kumar RP, Jayaprakash PG. 'CT optimized brachytherapy for locally advanced carcinoma cervix: clinical outcome analysis (36th American Brachytherapy Society annual meeting abstract)' Brachytherapy. 2015/14(Suppl.1):S61. Mohandas S, Roshni S, Vasudevan A, Preethi TR, Mathew AP, Lijeesh AL, Haridas G, Jayaprakash PG. 'Primary malignant melanoma of the esophagus (AROI 2015 Abstract)' Journal of Cancer Research and Therapeutics. 2015/11(Suppl.1):S32. Nair SP, Jayasree K, Nayak N, Preethi TR, Mathews A, Somanathan T. 'An analysis of cytology of germ cell tumors with histopathological and serum tumour marker correlation: a tertiary care centre experience (APCON 2015 abstract)' Indian Journal of Pathology and Microbiology . 2015/58(Suppl.1): \$65-6. Rajan V, Geetha N, Nair SG. 'Response to bortezomib in newly diagnosed multiple myeloma: a single centre experience from India (ESMO ASIA 2015 abstract)' Annals of Oncology, 2015/26(Suppl.9); ix90. Ramya C, Nair RA, Sukumaran R, Jacob PM, Jayasudha AV. 'Study of aberrant immunophenotypic expression in acute leukemias (APCON 2015 abstract)' Indian Journal of Pathology and Microbiology, 2015/58(Suppl.1):S35. Sukumaran R, Nair RA, Jacob PM, Jayasudha AV. Primary gastrointestinal lymphomas: anatomical distribution and histological subtypes - a retrospective analysis of 152 cases (APCON 2015 abstract)' Indian Journal of Pathology and Microbiology. 2015/58(Suppl.1): S116-7. 137 Yousuf FP, Mathews A, Jayasree K. 'Inflammatory myofibroblastic tumor (APCON 2015 abstract)' Indian Journal of Pathology and Microbiology, 2015/58(Suppl.1): \$133-4 Chapters in Books Chandramohan K, Mathew AP. 'Metabolic syndrome and endometrial cancer'. In: Uterine Cancer/ edited by Shalini Rajaram...et al. 138 New Delhi: Springer, 2015:387-95. 139 Rema P. 'Synchronous cancers of the ovary and endometrium'. In: Uterine cancer/ edited by Shalini Rajaram ...et al., New Delhi: Springer, 2015:405-9. 140 Sankaranarayanan R, Ramadas K, Hemantha A, Subramanian S, Newell J. 'Oral cancer: prevention, early detection and treatment'. In: Disease control priorities, 3rd ed.V3. Cancer/ edited by Hellen Gelband…et al.Wasington:World Bank, 2015:85-99. Suchetha S. 'Effects of Tamoxifen and other SERMs in the endometrium and follow-up of patients'. In: Uterine cancer: diagnosis and treatment/ edited by Shalini Rajaram...et al. New Delhi: Springer, 2015:437-41. Conference Papers Anila KR, Nayak N, Jayasree K. 'Cytomorphologic spectrum of lymphocytic thyroiditis and correlation of cytological grading with biochemical parameters'. In: Proceedings of the 45th annual conference on Indian Academy of Cytologists (CYTOCON 2015). Dehradun: IAC, 2015:53-4. 143 Anila KR. 'Cytomorphologic spectrum of hurthle cell lesions of thyroid: analysis of 54 cases'. In: Proceedings of the International CME in pathology, histopathology cytopathology. Goa: Indian Academy of Cytologists and International Academy of Cytology, 2016:67-8. 144 Arun Kumar N, Pisharody R, Patil S, Satish B, Nair K, Ramachandran R , Nair SG, Nair RA, Jayasree K. A rare case of post transplant lymphoproleferative disorder (PTLD) after 18 years of renal transplant'. In: Proceedings of Kerala Institute of Medical Sciences.

Thiruvanathapuram: KIMS, 2016:26-8.

- Chandran RK, Aswathy CG, Preethi GN, Raj A, Hariharan S. 'The incidence, patterns and prognostic significance of BCR/ABL gene rearrangements in three clinical phases of chronic myeloid leukemia patients using fluorescence in situ hybridization (FISH)'. In: Proceedings of the 28th Kerala Science Congress. Thiruvananthapuram: Kerala State Council for Science, Technology and Environment, 2016;1516-21. Drishya G, Ashokan L, Nambiar I, Shaji SK, *Lakshmi S*, Kumar GB, Nair BG. 'In vitro culture of primary cells from cancer patients-146 screening for potent MMP-9 inhibitors'. In: Proceedings of the 39th All India Cell Biology conference on Cellular Organisation and Dynamics. Thiruvananthapuram: Indian Society of Cell Biology, 2015:119. George PS, Mathew A. 'Assessment of completeness in Trivandrum Cancer Registry data: capture-Re-capture method. In: Proceedings of the Annual Scientific Conference of 37th International Association of Cancer Registries, Mumbai: IACR, 2015. p.89. George PS, Mathew A. 'Geo-relationship between cancer cases and the environment in Trivandrum, India'. In: Proceedings of the 148 37th Annual Scientific Conference of International Association of Cancer Registries. Mumbai: 2015:38. George PS, Mathew A. 'Spatial distribution of cancer incidence in Trivandrum Taluk: geographic information system'. In: Souvenir and abstracts of the International conference on statistics for twenty first century, Thiruvananthapuram: University of Kerala, 2015:26-7. Hariharan S, Geetha N, Santhi S, Sureshkumar R, Sruthy M, 'Cytogenetic abnormalities and its impact on treatment response and survival: a study from Kerala'. In: Proceedings of the 6th International Translational Cancer Research Conference. Ahmedabad: The Guiarat Cancer & Research Institute, 2016:84. James AR, Shiji R, Kusumakumary P, Nair M, Sreelekha TT. 'Role of translocations, mutations and MDRI to assess drug response in pediatric acute lymphoblastic leukemia: a multiplex approach'. In: Proceedings of the 28th Kerala Science Congress, Thiruvananthapuram: Kerala State Council for Science, Technology and Environment, 2016:433-40.

 James AR, Unnikrishnan BS, Kumar MTK, Sreelekha TT. 'In silico in vitro studies indicate the potentionality of Galactoxyloglucan imatinib mesylate nanoparticles against multidrug resistant cells'. In: Proceedings of the International seminar on recent biochemical approaches in therapeutics. Thiruvananthapuram: University of Kerala, 2015:12. Jayapriya G, Jayasree K, Geetha N, Koshy SM. 'Chordoma: a retrospective case series analysis'. In: Proceedings of the 2nd annual conference of Indian Musculoskeletal Oncology Society. Kochi: ISMOS, 2016:58-9. ayasudha S, Madhukumar K, Nair CMK, Nair RG, Anandakumar VM, Elias TS 'High temperature thermoluminescence emission of 154 SrSO4 nanophosphors doped with Eu and Mn. In: Proceedings of the National Seminar on New materials and Nanotechnology (NSNMN-2015). Thiruvananthapuram: Heera College of Engineering and Technology, 2015:11-4. John NP, Sukumaran R, Nair RA, Jayasree K. 'ALK positive anaplastic large cell lymphoma (ALCL) with primary bone involvement'. In: Proceedings of the 2nd annual conference of Indian Musculoskeletal Oncology Society. Kochi: IMSOS, 2016:53-4. Johnson LR, Rema P, Suchetha S, Ahamed MI. 'Adenoid cystic carcinoma of vulva: a case series'. In: Proceedings of the 4th biennial meeting of Asian Society of Gynecologic Oncology. Seoul: ASGO, 2015:371-2.

 Johnson LR, Suchetha S, Nair RP, Ahamed I, Liaquat RJ. The role of subcutaneous suction drain following median laparotomy in 157 gynecological oncosurgery'. In: Proceedings of the 4th Biennial meeting of the Asian Society of Gynecologic Oncology, Seoul: ASGO, 2015:250. Joseph MM, Nair JB, Ramya AN, Baby NT, Pillai KR, Maiti KK, Sreelekha TT. 'Galactoxyloglucan silver nanoparticles as excellent anticancer agent and SERS substrate'. In: Proceedings of the International seminar on recent biochemical approaches in therapeutics. Thiruvananthapuram: University of Kerala, 2015:1. 159 Kalavathy MC, Saritha VN, Akhila RS, Jayasree K, Mathew A. Reproductive factors and premalignant conditions of cervix uteri cancer: Hospital based screening programme'. In Proceedings of the 37th International Association of Cancer Registries Annual Scientific Conference, Mumbai: IACR, 2015:83. 160 Krishna IKM. 'Cancer survival using mixture models'. In: Souvenir and abstracts of 2nd International conference on statistics for 21st century. Thiruvananthapuram: University of Kerala, 2016:22. Krishna JKM, George PS, Mathew A. Biasedness in cancer survival estimates when non-uniform loss to follow-up and non-proportional 161 hazards'. In: Souvenir and abstracts of the International conference on statistics for twenty first century. Thiruvananthapuram: University of Kerala, 2015:14-5. Krithika E, Jayasree K. 'Osteoblastoma: a case report and review of literature'. In: Proceedings of the 2nd annual conference of
- 2014)'. In: Proceedings of the 37th International Association of Cancer Registries Annual Scientific Conference, Mumbai: IACR, 2015:84.

Mathew A, George PS, Kalavathy MC, Amma PG, Sebastian P, Nandakumar A. 'Urban-rural differences of cancer incidence and mortality in Trivandrum, Kerala (2012-2013)'. In: Proceedings of 37th International Association of Cancer Registries Annual scientific

Mathew A, George PS, Kalavathy MC, Amma PG, Sebastian P, Nandakumar A. 'Trends in cancer incidence in Trivandum Taluk (2005-

Indian Musculoskeletal Oncology Society. Kochi: ISMOS, 2016: 55-6.

conference, Mumbai: IACR, 2015:46.

Mathew A, Krishna JKM, George PS. 'Red meat intake and colorectal cancer: a meta-analysis'. In: Proceedings of the International Biometric Society-Indian Regional and Public Health Evidence South Asia Joint conference, Manipal: Manipal University, 2016:30-1. Mathew A. 'Cancer registry statistics for public health assessment'. In: Souvenir and abstracts of 2nd International conference on 166 statistics for 21st century. Thiruvananthapuram: University of Kerala, 2016:17. 167 Mathew A. Statistics leads to cancer epidemiology. In: Souvenir and abstracts of International conference on statistics for twenty first century, Thiruvananthapuram: University of Kerala, 2015:6. 168 Nair R, Madhukumar K, Nair CMK, Jayasudha S, Elias TS. 'Effect of annealing temperature on thermoluminescence of rare earth doped CaSO4'. In: Proceedings of the National Seminar on New materials and Nanotechnology, Haldia: Science and Technology Department, Govt. of India, 2015:89-92. 169 Nair VB, James FV, Kannan S. 'Similar expression pattern of MIRNA in cervical cancer cells irrespective of HPV infection type: a NGS approach'. In: Proceedings of the 28th Kerala Science Congress, Thiruvananthapuram: Kerala State Council for Science, Technology and Environment, 2016:1797-804. 170 Ramya C, Jayasree K, Geetha N, Koshy SM. 'Spine tumours: a retrospective study of 5 years'. In: Proceedings of the 2nd annual conference of Indian musculoskeletal oncology society, Kochi: ISMOS, 2016:52. 171 Shruthi B, Nayak N. 'Utility of histogel in routine cell block technique: a pilot study'. In: Proceedings of the 45th annual conference on Indian Academy of Cytologists (CYTOCON 2015), Dehradun: IAC, 2015:58. 172 Shruthi B, Preethi TR, Jayasree K. 'Cellular angiofibroma of scrotum: a case report and literature review'. In: Proceedings of the International CME in pathology, histopathology cytopathology'. Goa: Indian Academy of Cytologists and International Academy of Cytology, 2016:113. 173 Sinto MS, Deepak Roshan VG, Kannan S. 'Molecular crosstalk between the NFkB and STAT3 signaling pathways play key role in regulating cancer progression in oral carcinoma'. In: Proceedings of the 35th Annual convention of Indian Association for Cancer Research, Jaipur: IACR, 2016. Sivaram AP, Nayak N, Anila KR, Krithika E, Nair P, Jayaprakash B. 'Clinical, radiological and morphologic mimickers of lung carcinoma: case reports of 3 benign lesions diagnosed on fine needle aspiration'. In: Proceedings of the 45th Annual conference of Indian Academy of Cytologists (CYTOCON 2015). Dehradun: IAC, 2015:87. Sreelekha KR, George PS, Sivan R, Mathew A. 'Estimation of breast cancer survival using bootstrap technique'. In: Souvenir and abstracts of the International conference on statistics for twenty-first century.Thiruvananthapuram: University of Kerala, 2015:70-1 176 Sreelekha TT, Joseph MM, Kumar MTK. 'Galactoxyloglucan-Doxorubicin nanoparticles exerts superior cytotoxic effects on cancer cells by inhibiting tyrosine kinase; a mechanistic and in silico study'. In: Proceedings of the 7^{th} International Conference on Drug Discovery and Therapy. Sharjah: University of Sharjah, 2016:77. Sreelekha TT. 'Polysaccharide nano conjugates for targeted drung delivery and imaging of cancer cells'. In: Proceedings of the International seminar on recent biochemical approaches in therapeutics. Thiruvananthapuram: University of Kerala, 2015:7. 178 Sujathan K. 'Computer aided screening of cervical cancer using methodologies of quantitative cytology'. In: International conference on Cytopathology. Toronto: OMICS, 2015:23. Sukumaran R, Nair RA, Jayasudha AV, Jacob PM. Epidermodysplasia verruciformis associated with T cell lymphoma, squamous cell carcinoma and Langerhans cell histiocytosis'. In: Proceedings of the International CME in pathology, histopathology cytopathology. Goa: Indian Academy of Cytologists and International Academy of Cytology, 2016:114. 180 Unnikrishnan BS, James AR, Preethi GU, Sreelekha TT. 'Development of Galactoxyloglucan - Imatinib mesylate nanoparticles with sustained drug release in leukemia therapy'. In: Proceedings of the 28th Kerala Science Congress. Thiruvananthapuram: Kerala State Council for Science, Technology and Environment, 2016:361-7. Venugopal A. 'Local anaesthetic systemic toxicity (LAST)'. In: Proceedings of the 31st South zone conference in Anaesthesiology. Thiruvananthapuram: Indian Society of Anaesthesiologists, 2015:325-31.

Administration, Standing Committees & Right to Information

a. ADMINISTRATION

Director : Dr. Paul Sebastian Additional Director (Academic): Dr. P Kusumakumary

: Dr. K Ramadas Medical Superintendent 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	104	18					4	127
Non-Academic	630	102	32	82	3	- 1	4	846
Total	734	120	33	82	3	I	8	973

c.ACADEMIC STAFF STRENGTH

Professors-15, Additional Professors-35, Associate Professors-17, Assistant Professors-44, Lecturers-1

d. NON-ACADEMIC STAFF		Usha J (Smt)	Technical Officer (Lab)	
Administrative Office		Helen B (Smt)	Technical Officer (Lab)	
Anil Kumar V (Sri) Lalitha B (Smt) Jumailathu Beevi K M (Smt) Snehalatha H B (Smt) Vijayan S (Sri) Kalpana Soni S (Smt) Seethalakshmi P S (Smt) Devaraja Panicker K (Sri)	Senior Administrative Officer Asst. Admin Officer Gr. I Office Asst. Sel.Gr Office Asst. Sel.Gr Office Assistant Sr Gr. Office Assistant Despatcher Senior Helper	Rajesh K R (Sri) Renuka P (Smt) Ajaya Kumar R (Sri) Jaya Kumar B (Sri) Riyad R A (Sri) Saneela S (Smt) Sindhumony S (Smt) Sini L S (Smt) Sreelekha V K (Smt)	Technical Officer (Lab) Technical Officer (Lab) Lab.Technician Sr.Gr.	
Balachandran L (Sri) Senior Helper Suliman S (Sri) Hospital Attender Cancer Epidemiology & Bio-statistics Asha N M (Smt) Clerk Gr.l Prasanth Kumar R K (Sri) Data Entry Operator Gr. I		Trophy S (Sri) Veena Devi Thankachy V S (Smt) Beena Rani A S (Sri) Anil Kumar R (Sri) Gopa Kumar (Sri)	Lab.Technician Sr.Gr. Lab.Technician Sr.Gr. Lab.Technician Senior Helper Senior Helper	
Cancer Research	Scientific Officer Gr.I	Clinical Services & Medical Records		
Sreelekha TT (Dr) Hareendran N K (Sri) Vikraman Nair K (Sri) Sreekumaran Nair P (Sri) Clinical Laboratory	(till 6.5.14) Research Assistant Gr. I Senior Animal House Keeper Driver Sr.Gr.	Chandrika D (Smt) Sreekumar B (Sri) Ambily O (Smt) Anil Kumar K (Sri) Geetha O (Smt) John S (Sri)	Medical Records Officer Gr. I Asst. Admn. Officer Clerk Gr. I Clerk (MRT) Gr. I Clerk Gr. I Clerk (MRT) Gr. I	
Thomas Abraham (Dr) Gangadevi C (Smt)	Scientific Officer Gr. I Technical Officer (Lab)	Jaya Kumar P (Sri) Kumari Bindu P K (Smt)	Clerk Gr.I Clerk Gr. I	

Mariamma M.A. (Smt)	Clerk Sr. Gr.	Gracy George (Smt)	Staff Nurse Sr. Gr.
Mariamma M A (Smt) Pradeep Kumar B (Sri)	Clerk Gr. I	Letha B (Smt)	Typist Gr. I
Siju R. Nair (Smt)	Clerk Sr. Gr.	John Evidus P P (Sri)	Hospital Assistant
Sreelatha S (Smt)	Clerk Sr. Gr.	, ,	Mospital Assistant
Thankamony Amma P (Smt)	Clerk Gr. I	ECDC, Palakkad	
Nikhil S Baiju (Sri)	Clerk	Rekha SR (Dr)	Resident Medical Officer
Padmarajan R (Sri)	Typist	Sanil P N (Sri)	Cytotechnologist
Sherly K Ninan (Smt)	Data Entry Operator Gr. I	Nirmala K C (Smt)	Staff Nurse Gr. I
Girija R (Smt)	Clerk (MRT)	Abdul Rahiman P M (Sri)	Senior Helper
Bindu Sadasivan (Smt)	Clinical Records Assistant	Engineering Wing	
Ajitha S (Smt)	Clinical Records Assistant	Alex Varghese (Sri)	Asst. Ex. Engineer (Civil)
Gireesh S (Sri)	Clinical Records Assistant	Rajendran K R (Sri)	Supervisor (Electrical) Sr.Gr.
Liji S (Smt)	Clinical Records Assistant	Santhosh Kumar A R (Sri)	Supervisor (Electrical) Sr.Gr.
Kaladevi S (Smt)	Clinical Records Assistant	Venugopalan Nair V R (Sri)	Supervisor (Electrical)
Savitha VM (Smt)	Clinical Records Assistant	Giji P S (Sri)	Supervisor (Electrical)
Praveen Nair	Clinical Records Assistant	Jayakumar P (Sri)	Electrician Gr.I
Jayalekshmi P (Smt)	Coding Clerk	Rajmohan M B (Sri)	Electrician Gr.I
Sasidharan Nair N (Sri)	Driver Sel.Gr.	Suresh Kumar G (Sri)	Electrician
` '	Driver Gr. I	Sunil Kumar R (Sri)	Electrician
Nazaruddin S (Sri)	Driver Gr. 1 Driver Sr. Gr.	Deepu S S (Sri)	Electrician
Premachandran Nair S (Sri)		Sivarajan L (Sri)	Electronic Technician Sr.Gr.
Anil Kumar T.T. (Sri)	Driver	Jayanthy J K (Smt)	Data Entry Operator Sr.Gr.
Balachandran B.K (Sri)	Driver	Jayabalan Nair B (Sri)	Plumber Gr. I
Rajeendran GC (Sri)	Driver	Shalin Raj R (Sri)	Plumber
Ajitha Kumari R B (Smt)	Senior Helper	Rajan P C (Sri)	Senior Helper
Mariyamma Varghese (Smt)	Senior Helper	Sanjayan S (Sri)	Plumber .
Jayasree R (Smt)	Helper	Finance & Accounts	
Amrithamma M (Smt)	Hospital Assistant	Sanjeev R (Sri)	Controller of Finance
Sivankutty K (Sri)	Hospital Assistant	Sunil VS (Sri)	Accounts Officer
Hari C (Sri)	Dark Room Asst. Gr. I	Sasikumar K (Sri)	Asst. Internal Audit Officer Gr. I
Community Oncology		Beena N (Smt)	Asst. Accounts Officer Gr.1
Sreekumar C (Sri)	Social Investigator Sr.Gr.	Saraladevi P G (Smt)	Asst. Accounts Officer
Jeena Joseph N (Smt)	Protocol Nurse	Johnson X (Sri)	Cashier Cum Receptionist Sr.Gr.
Director's Office		_ Sheela Kumari R (Smt)	Cashier Sel.Gr.
Deepa J (Smt)	Secretary to Director	Sheena Saju	Cashier
Antony P (Sri)	Despatcher	Remila C K (Smt)	Office Assistant Sel.Gr.
Louis T C (Sri)	Hospital Assistant	Girija Kumari L S (Smt)	Office Assistant Sr.Gr.
ECDC, Ernakulam		Mallika Devi S (Smt)	Senior Personal Assistant
Latha A (Dr)	Cytopathologist	Ajitha O S (Smt)	Office Assistant Sr. Gr.
James Thomas M (Sri)	Technical Officer (Cyto)	Veena C L (Smt)	Office Assistant Sr. Gr.
Radha C (Smt)	Cytotechnologist Sr.Gr.	Shajkumar K R (Sri)	Office Assistant Sr Gr.
Lijo TV (Sri)	Lab.Technician Sr.Gr.	John Joseph (Sri)	Office Assistant Gr. I
Renjini Thomas (Smt)	Lab.Technician Sr.Gr.	Sheeja S.S. (Smt)	Office Assistant
Ambika T B (Smt)	Staff Nurse Sr. Gr.	Usha V (Smt)	Data Entry Operator Sr.Gr.
,ona i 2 (5.11t)	34411 144 30 311 311	33114 (31116)	Data Lita / Operator Short

Prabhavathi Devi AK (Smt) Ambili S (Smt)	Clerk Gr. I Clin Records Asst.	Sunitha S (Smt) Salini PS (Smt)	Radiation Technologist Radiation Technologist
,	CIIII Necolus Assi.	Ananda Kumar K (Sri)	R I A Technician Gr. I
Imageology	Dadietien Teeks elect	Usha R (Smt)	Data Entry Operator Gr.I
Asha S (Smt)	Radiation Technologist	` '	Data Entry Operator Om
Binoy B G (Sri)	Radiation Technologist	Nursing Services	Chief Nursing Officer
Jayakumar P (Sri)	Radiation Technologist Technical Officer (Radiation)	Sreelekha R (Smt) Flower Augustine (Smt)	•
Joe D'cruz A (Sri)	Junior Personal Assistant	9 \ , ,	Nursing Supt. Gr. I
Savithri Amma B (Smt)	Technical Officer (Radiation)	Geetha S (Smt)	Nursing Supervisor Nursing Supervisor
Pradeep S (Sri)	Technical Officer (Nadiation)	Lizyamma Jacob (Smt)	9 1
Prasad P P (Sri)		Mariamma James (Smt)	Nursing Supervisor Nursing Supervisor
Santhosh Kumar C S (Sri)	Hospital Assistant	Sally Abraham (Smt)	Head Nurse Sr. Gr.
Sathyalekha S I (Smt)	Technical Officer (Radiation)	Prasanna Kumari S (Smt)	
Shailesh Kumar K N (Sri)	Technical Officer (Radiation)	Rajila Beegum (Smt)	Head Nurse Sr. Gr.
Udayakumar K R (Sri)	Technical Officer (Radiation)	Sunitha Kumari R (Smt)	Head Nurse Sr. Gr. Head Nurse Sr. Gr.
Sreelekha L D (Smt)	Radiation Technologist	Vijayalekshmy Ammal (Smt)	
Veena R R (Smt)	Radiation Technologist	Sheela Rodriguez (Smt)	Head Nurse Sr. Gr.
Vijayakumar C (Sri)	Hospital Attender	Jaya T S (Smt)	Head Nurse Gr. I
Information Systems		Jikki M (Smt)	Head Nurse Gr. I
Neelima N (Smt)	Systems Manager	Sheeba S V (Smt)	Head Nurse Gr. I
Rajesh P (Sri)	System Analyst	Shobha S (Smt)	Head Nurse Gr. I
Shaji J (Sri)	System Analyst	Vijaya A K (Smt)	Head Nurse Gr. I
Pradeep Chandran (Sri)	Junior System Analyst	Aniamma Joseph (Smt)	Head Nurse Gr. I
Basil Varghese (Sri)	Junior System Analyst	Geetha Kumari B S (Smt)	Head Nurse Gr. I
Suseela Devi B (Smt)	Data Entry Operator Sr.Gr.	Shema C (Smt)	Head Nurse
Library & Information Services		Sindhu S (Smt)	Head Nurse
Vishnu V (Dr)	Librarian cum	- Aleyamma Mathew (Smt)	Head Nurse
,	Information Officer	Bensamma Varghese (Smt)	Head Nurse
Saji S Nair (Sri)	Assistant Librarian	Sindhu G S (Smt)	Head Nurse
Haseena K	Library Assistant	Siva Kumari P R (Smt)	Head Nurse
Rahul LR	Library Assistant	Elsamma Joseph (Smt)	Head Nurse
Ganga A P (Smt)	Clinical Records Assistant	Ajitha T L (Smt)	Staff Nurse Sr. Gr.
Balachandran K G (Sri)	Senior Helper	Anila Kumari S (Smt)	Staff Nurse Sr. Gr.
Vijayakumaran Nair R (Sri)	Audio Visual Operator Gr. I	Chandrika P (Smt)	Staff Nurse Sr. Gr.
. ,	тр	Ilin William (Smt)	Staff Nurse Sr. Gr.
Medical Oncology	Davidant Madical Officer Col	Indira Devi G (Smt)	Staff Nurse Sr. Gr.
Lali V S (Dr)	Resident Medical Officer Gr.l	Indu V S (Smt)	Staff Nurse Sr. Gr.
Archana Surendran (Dr)	Resident Medical Officer	Indulekha (Smt)	Staff Nurse Sr. Gr.
Nuclear Medicine		Jessy Thomas (Smt)	Staff Nurse Sr. Gr.
Sheela V (Smt)	Technical Officer (Radiation)	Kumari Sindhu S (Smt)	Staff Nurse Sr. Gr.
Bindu B (Smt)	Technical Officer (RIA)	Laly Joseph (Smt)	Staff Nurse Sr. Gr.
Minyamma K (Smt)	Technical Officer (RIA)	Mangalam S (Smt)	Staff Nurse Sr. Gr.
Sindhu P (Smt)	Technical Officer (RIA)	Marykutty Mathew (Smt)	Staff Nurse Sr. Gr.
Sheeja S R (Smt)	Radiation Technologist Sel.Gr.	Ranichandra V (Smt)	Staff Nurse Sr. Gr.
Sibi K S (Smt)	Radiation Technologist	Rethidevi G S (Smt)	Staff Nurse Sr. Gr.

Sajitha S (Smt)	Staff Nurse Sr. Gr.	Baijudeen B (Sri)	Staff Nurse
Saraswathy Amma P (Smt)	Staff Nurse Sr. Gr.	Beena K G (Smt)	Staff Nurse
Sherly M (Smt)	Staff Nurse Sr. Gr.	Bency Varghese (Smt)	Staff Nurse
Shijikumary N G (Smt)	Staff Nurse Sr. Gr.	Biji P R (Smt)	Staff Nurse
Suma PV (Smt)	Staff Nurse Sr. Gr.	Bilna Sasi (Smt)	Staff Nurse
Swapna C R (Smt)	Staff Nurse Sr. Gr.	Bincy Lukose (Smt)	Staff Nurse
Abraham Shini (Smt)	Staff Nurse Gr. I	Bindhu K G (Smt)	Staff Nurse
Ajitha S (Smt)	Staff Nurse Gr. I	Bindhu Rani PV (Smt)	Staff Nurse
Anitha Kumary PV (Smt)	Staff Nurse Gr. I	Bindu B (Smt)	Staff Nurse
Aleyamma Chacko (Smt)	Staff Nurse Gr. I	Bindu Kumari T C (Smt)	Staff Nurse
Bindhu M (Smt)	Staff Nurse Gr. I	Bini R (Smt)	Staff Nurse
Bindhu PD (Smt)	Staff Nurse Gr. I	Cherupushpam M (Smt)	Staff Nurse
Bini A (Smt)	Staff Nurse Gr. I	Chithra V G (Smt)	Staff Nurse
Binu O (Smt)	Staff Nurse Gr. I	Daisy A (Smt)	Staff Nurse
Geetha Kumari D (Smt)	Staff Nurse Gr. I	Deepa A S (Smt)	Staff Nurse
Joby Paul (Smt)	Staff Nurse Gr. I	Deepa R (Smt)	Staff Nurse
Leemol Mathew (Smt)	Staff Nurse Gr. I	DeepaTP (Smt)	Staff Nurse
Jyothilekshmi D (Smt)	Staff Nurse Gr. I	Divya Das S (Smt)	Staff Nurse
Moly MT (Smt)	Staff Nurse Gr. I	Ducakis S (Smt)	Staff Nurse
Mareena Silas (Smt)	Staff Nurse Gr. I	Fathima S (Smt)	Staff Nurse
Rosamma Joseph (Smt)	Staff Nurse Gr. I	Fathima Suhra M (Smt)	Staff Nurse
Nisha Vidyadhar R (Smt)	Staff Nurse Gr. I	Georgia George (Smt)	Staff Nurse
Lizy Varkey (Smt)	Staff Nurse Gr. I	Gigi Mol Chacko (Smt)	Staff Nurse
Sheeba P (Smt)	Staff Nurse Gr. I	Girija L (Smt)	Staff Nurse
Sindhumol M G (Smt)	Staff Nurse Gr. I	Gracy Sebastian (Smt)	Staff Nurse
Sophiya Lilly (Smt)	Staff Nurse Gr. I	Irshad A P (Sri)	Staff Nurse
Jainamma Standal (Smt)	Staff Nurse Gr. I	Jaichitra MV (Smt)	Staff Nurse
Sheeja DB (Smt)	Staff Nurse Gr. I	Jamshad P (Smt)	Staff Nurse
Sheeja Samuel (Smt)	Staff Nurse Gr. I	Jasna P K (Smt)	Staff Nurse
Sindhu G (Smt)	Staff Nurse Gr. I	Jayasree C G (Smt)	Staff Nurse
Abdul Jaseer E (Sri)	Staff Nurse	Jeeja Rajan (Smt)	Staff Nurse
Ajila M S (Smt)	Staff Nurse	Jesna R (Smt)	Staff Nurse
Ajitha S (Smt)	Staff Nurse	Jijimol S J (Smt)	Staff Nurse
Amrutha L Raj (Smt)	Staff Nurse	Julie Mariam Jacob(Smt)	Staff Nurse
Aneeta George (Smt)	Staff Nurse	Karthika Raj K S (Smt)	Staff Nurse
Anjay P (Smt)	Staff Nurse	Kavitha S G (Smt)	Staff Nurse
, , , ,	(Resigned 31.03.2016)	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
	366		3 3311 1 101 30

Maya N Nair (Smt)	Staff Nurse	Shijitha K S (Smt)	Staff Nurse
Maya S S (Smt)	Staff Nurse	Shiny George (Smt)	Staff Nurse
Mayadevi L (Smt)	Staff Nurse	Shiny PThankappan (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 KThomas (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	Sumayya E K (Smt)	Staff Nurse
Saji G S (Smt)	Staff Nurse	Sama/ya E ix (Sinc)	(Resigned 31/8/15)
Saloma P S (Smt)	Staff Nurse	Suni Mathew (Smt)	Staff Nurse
Sandhya G (Smt)	Staff Nurse	Sunitha L (Smt)	Staff Nurse
Sandhya V Nair (Smt)	Staff Nurse	Swopna K (Smt)	Staff Nurse
Sandhyamol K S (Smt)	Staff Nurse	Thara S S (Smt)	Staff Nurse
Sangeetha K S (Smt)	Staff Nurse	Vasanthakumari R (Smt)	Staff Nurse
Saritha S S (Smt)	Staff Nurse	Sithara Balakrishnan	Staff Nurse
Shabeerali K (Sri)	Staff Nurse	Archana C S (Smt)	Staff Nurse
Sharmi N (Smt)	Staff Nurse	Sahiya V V (Smt)	Staff Nurse
Sheeba P Varghese (Smt)	Staff Nurse	Jafna N (Smt)	Staff Nurse
Sheeba V L (Smt)	Staff Nurse	Arathy S R (Smt)	Staff Nurse
Sheeja BT (Smt)	Staff Nurse	Aparna A(Smt)	Staff Nurse
Sheeja H (Smt)	Staff Nurse	Manju Punnen(Smt)	Staff Nurse
Sheeja Kumari G (Smt)	Staff Nurse	Savitha V(Smt)	Staff Nurse
Sherry M (Smt)	Staff Nurse	Reshmi V P K(Smt)	Staff Nurse
31.511 / 1 1 (31115)	Stan I vai SC	1.0311111 7 1 1.(01111)	Juli i vai je

Neetha Abraham(Smt)	Staff Nurse	Sivaranjini V M(Smt)	Staff Nurse
Nirmal G (Sri)	Staff Nurse	Reshmi E R(Smt)	Staff Nurse
Ajith Clement C (Sri)	Staff Nurse	Dhanya A S(Smt)	Staff Nurse
Resmi V R(Smt)	Staff Nurse	Shiyas S R(Sri)	Staff Nurse
Gayathri Devi K S(Smt)	Staff Nurse	Kavitha G S(Smt)	Staff Nurse
Keerthy M S(Smt)	Staff Nurse	Mohammad Sajin N(Sri)	Staff Nurse
Lekshmi P Nair(Smt)	Staff Nurse	Alex John(Sri)	Staff Nurse
Asha A(Smt)	Staff Nurse	Ashwathi J C(Smt)	Staff Nurse
Harish Nair M(Sri)	Staff Nurse	Laiby V Elizabeth (Smt)	Staff Nurse
Manju V M(Smt)	Staff Nurse	Kavitha Mohan L(Smt)	Staff Nurse
Divya Pauly(Smt)	Staff Nurse	Dhanya I S(Smt)	Staff Nurse
Usha Rani E N(Smt)	Staff Nurse	Dhanya i 3(3iiit)	(Resigned 11.11.2015)
OSHA MAHI E M(SHIL)		Coathy Vary of (Spat)	Staff Nurse
Pismi NI C/Smt	(Resigned 02.11.2015) Staff Nurse	Geethu Karun(Smt) Shirly Joseph(Smt)	Staff Nurse
Bismi N S(Smt)	Staff Nurse	Shirty Joseph (Sittl)	
Likha Prasad(Smt)		V D. D. - - - - - - - - -	(Resigned 23.12.2015) Staff Nurse
Rincy Rajan(Smt)	Staff Nurse	Keerthi R Pillai(Smt)	
Jamsheena E M(Smt)	Staff Nurse	Tania Raj K (Smt)	Staff Nurse
Aswathy S(Smt)	Staff Nurse	Bibin K. Mathew (Sri)	Staff Nurse
Anuroop J S(Sri)	Staff Nurse	Neelima G (Smt)	Staff Nurse
D DT/C ()	(Resigned 23.11.2015)	Anu Priya VM (Smt)	Staff Nurse
Rosamma PT(Smt)	Staff Nurse	Asha S (Smt)	Staff Nurse
Surya S(Smt)	Staff Nurse	Karthika Thampi (Smt)	Staff Nurse
A: 1.1/(C.1)	(Resigned 28.11.2015)	Divya VJ (Smt)	Staff Nurse
Ajeesh K(Sri)	Staff Nurse	Neethu Sasi (Smt)	Staff Nurse
Neethumol N M(Smt)	Staff Nurse	Susan John (Smt)	Staff Nurse
DI KIL MCK	(Relieved 10.10.2015)	Sajitha S (Smt)	Staff Nurse
Dhanya Krishnan M G(Smt)	Staff Nurse	Pratheeksha R (Smt)	Staff Nurse
Anju Dominic(Smt)	Staff Nurse	Sajana K. Badusha (Smt)	Staff Nurse
Soumya T L(Smt)	Staff Nurse	Diana C (Smt)	Staff Nurse
Abhilash Michael(Sri)	Staff Nurse	Riti Merin Abraham (Smt)	Staff Nurse
Aishwarya P G(Smt)	Staff Nurse	Ansha P. Jyothy (Smt)	Staff Nurse
Vishnu Prasad V S(Sri)	Staff Nurse	Lekshmi Mohan (Smt)	Staff Nurse
Meenu M R(Smt)	Staff Nurse	Anu KS (Smt)	Staff Nurse
	(Resigned 29.10.2015)	Preetha B (Smt)	Staff Nurse
Devi Prabhu P(Smt)	Staff Nurse	Sankar MG (Smt)	Staff Nurse
Arya P(Smt)	Staff Nurse	Jinn Joseph (Sri)	Staff Nurse
Biyas S B(Smt)	Staff Nurse	Gireeshkumar S (Sri)	Staff Nurse
Joseph Jennings M M(Sri)	Staff Nurse	Jayakrishnan J (Sri)	Staff Nurse
Binson Baby(Sri)	Staff Nurse	Salini VP (Smt)	Staff Nurse
Sajisha E S(Smt)	Staff Nurse	Anu K. Avirah (Smt)	Staff Nurse
Sandhya Rapheal(Smt)	Staff Nurse	Remya KB (Smt)	Staff Nurse
Bisni Luckose(Smt)	Staff Nurse	Thanu Nadesan (Smt)	Staff Nurse
	(Resigned 30.11.2015)		(Resigned 15.03.2016)
Muhammed Anwar V P M(Sri)	Staff Nurse	Lalu Joy (Smt)	Staff Nurse

Mini MS (Smt)	Staff Nurse	Mariamma Joseph (Smt)	Nursing Assistant
Jubilet Malar C (Smt)	Nursing Assistant	Geetha P K (Smt)	Nursing Assistant
Sreekumari N (Smt)	Nursing Assistant	Bindhu S (Smt)	Nursing Assistant
Kumari Sindhu T S (Smt)	Nursing Assistant	Sali Varughese (Smt)	Nursing Assistant
Sheela M (Smt)	Nursing Assistant	Manju I (Smt)	Nursing Assistant
Mini A K (Smt)	Nursing Assistant	Babitha Beegam R (Smt)	Nursing Assistant
Jessy Thomas (Smt)	Nursing Assistant	Sunitha Devi R R (Smt)	Nursing Assistant
Varghese Thomas (Sri)	Nursing Assistant	Ranjini R (Smt)	Nursing Assistant
Deenamma M J (Smt)	Nursing Assistant	Manju C (Smt)	Nursing Assistant
Sunila R S (Smt)	Nursing Assistant	Jayasree S (Smt)	Nursing Assistant
Smitha D (Smt)	Nursing Assistant	Sheeba L (Smt)	Nursing Assistant
	-	* *	Nursing Assistant
Ambily T K (Smt)	Nursing Assistant	Subha Moly O (Smt)	•
Kumari Prameela R G (Smt)	Nursing Assistant	Sujakumari L (Smt)	Nursing Assistant
Sheeja Rani G (Smt)	Nursing Assistant	Sreelatha S (Smt)	Nursing Assistant
Usha L (Smt)	Nursing Assistant	Manjusha V (Smt)	Nursing Assistant
Jaya Kumari R (Smt)	Nursing Assistant	Sheeja R (Smt)	Nursing Assistant
Reeja A S (Smt)	Nursing Assistant	Kala L K Nair (Smt)	Nursing Assistant
Sreekumari M (Smt)	Nursing Assistant	Sandhyakrishnan L (Smt)	Nursing Assistant
Jessy Xavier (Smt)	Nursing Assistant	Sheeja Raj (Smt)	Nursing Assistant
Subhadra T K (Smt)	Nursing Assistant	Sari A S (Smt)	Nursing Assistant
Hendit Florin S D (Smt)	Nursing Assistant	Darley Grace A E (Smt)	Nursing Assistant
Beenamma Chacko (Smt)	Nursing Assistant	Minimol S S (Smt)	Nursing Assistant
Mary Helen S (Smt)	Nursing Assistant	Rajan J (Sri)	Cleaner
Deepthi S S (Smt)	Nursing Assistant	Santhakumary A (Smt)	Cleaner
Sherly P K (Smt)	Nursing Assistant	Sajeesh C.K. (Sri)	Cleaner
Rema K (Smt)	Nursing Assistant	Ajithakumari N K (Smt)	Cleaner
Felcy Jesslet A (Smt)	Nursing Assistant	Ambili S (C) (Smt)	Cleaner
Ambika V (Smt)	Nursing Assistant	Anila Kumary S (Smt)	Cleaner
Bigimol Dominic (Smt)	Nursing Assistant	Anitha Kumary Amma M (Smt)	Cleaner
Shaija K (Smt)	Nursing Assistant	Anitha V(Smt)	Cleaner
Geetha S (Smt)	Nursing Assistant	Baby D (Smt)	Cleaner
Sneha Latha S (Smt)	Nursing Assistant	Chandramathi Amma S (Smt)	Cleaner
Suja Kuruvilla (Smt)	Nursing Assistant	Chandrasekharan Nair M (Sri)	Cleaner
Laly V J (Smt)	Nursing Assistant	Durgadevi B(Smt)	Cleaner
Suja V (Smt)	Nursing Assistant	Ebsiba D (Smt)	Cleaner
Sindhumol V A (Smt)	Nursing Assistant	Geethakumari K(Smt)	Cleaner
Sajini John (Smt)	Nursing Assistant	Girija S (Smt)	Cleaner
Jessy Philipose (Smt)	Nursing Assistant	Gopakumar P (Sri)	Cleaner
Shyni John (Smt)	Nursing Assistant	Jayanthi D (Smt)	Cleaner
Sheeba P K (Smt)	Nursing Assistant	Justin Raj T (Sri)	Cleaner
Priya S (Smt)	Nursing Assistant	Kala Krishnan (Smt)	Cleaner
Sudha S (Smt)	Nursing Assistant	Kaladevi B (Smt)	Cleaner
Bindu A B (Smt)	Nursing Assistant	Lysal S (Smt)	Cleaner
Sithalekshmi V S (Smt)	Nursing Assistant	Lathakumary K (Smt)	Cleaner

Radha S (Lathika. S) (Smt)	Cleaner	Vanajakumari P (Smt)	Cleaner
Lethakumari K (Smt)	Cleaner	Vijayakumar S (Sri)	Cleaner
Mallika V (Smt)	Cleaner	Palliative Medicine	
Moly B (Smt)	Cleaner	Prasanth CV (Dr)	Resident Medical Officer
Newton C (Sri)	Cleaner	Manju Achamma Varghese (Dr)	Resident Medical Officer
Omana D (Smt)	Cleaner	Dennison G (Sri)	Manufacturing Chemist
Pradeep A (Sri)	Cleaner	Sanal AD	Skilled Worker
Prasanna S (Smt)	Cleaner		Skilled VVOI kei
Premaletha O T (Smt)	Cleaner	Pathology	
Pushpa T (Smt)	Cleaner	Najeeya S (Smt)	Technical Officer (Lab)
Pushpakumari P (Smt)	Cleaner	Nataraj A (Sri)	Technical Officer (Lab)
Radha R (Smt)	Cleaner	Brinda T P (Smt)	Technical Officer (Lab)
Rajalakshmy R (Smt)	Cleaner	Saina A (Smt)	Technical Officer (Lab)
Raheela N (Smt)	Cleaner	Sulochana S (Smt)	Technical Officer (Lab)
Rajeswari L (Smt)	Cleaner	Veena V S (Smt)	Cytotechnologist Sel.Gr.
Raju T (Sri)	Cleaner	Jayalal K S (Sri)	Cytotechnologist Sr.Gr.
Remadevi R (Smt)	Cleaner	Mani K S (Sri)	Cytotechnologist Sr.Gr.
Remany R (Smt)	Cleaner	Anitha S (Smt)	Cytotechnologist
Retnamma P (Smt)	Cleaner	Lathamalathy L (Smt)	Lab.Technician Sel.Gr.
Saju F (Sri)	Cleaner	Jayasree P S (Smt)	Lab.Technician Sr.Gr.
Syamala T (Sakunthala.T) (Smt)	Cleaner	Jiju J S (Sri)	Lab.Technician Sr.Gr.
Sarojam D (Smt)	Cleaner	Sheena Rani G.S. (Smt)	Typist
Sarojam T (Smt)	Cleaner	Krishnankutty R (Sri)	Senior Helper
Sasikala P (Smt)	Cleaner	Pharmacy & Store	
Sailaja A (Smt)	Cleaner	Suresh G (Sri)	Stores Officer
Kumari Sailaja K P (Smt)	Cleaner	Dinesh P S (Sri)	Pharmacist Gr. I
Sobhana S (Smt)-2200	Cleaner	Shaji SS (Sri)	Pharmacist
Sobhana S(Smt)-2218	Cleaner	Mini KL (Smt)	Pharmacist
Sreekanton K (Sri)	Cleaner	Krishnapriya V (Smt)	Pharmacist
Sreelatha P (Smt)	Cleaner	Saritha SS (Smt)	Pharmacist
Stalin Bright N (Sri)	Cleaner	Jalaja Kumari V Š (Smt)	Pharmacist
Subhashini K (Smt)	Cleaner	Thomas Rajasekharan (Sri)	Senior Helper
Sukumary L (Smt)	Cleaner	Vimal Kumar Y S (Sri)	Helper
Suma L (Smt)	Cleaner	Project Cell	1
Sunilkumar G (Sri)	Cleaner	Vijayakumar G (Sri)	Project Assistant Sn Cn
Sureshkumar K (Sri)	Cleaner	. ,	Project Assistant Sr. Gr.
Sushama G(Smt)	Cleaner	Thrivikraman Nair M G (Sri)	Clerk Gr. I
Syamalakumari S (Smt)	Cleaner	Purchase	
Thankamoni M (Smt)	Cleaner	Sasikumar SV (Sri)	Purchase Officer
Thanky S (Smt)	Cleaner	Girija Kumari L S (Smt)	Office Assistant Sr Gr.
Thulasi P (Smt)	Cleaner	Vijayaprasad B (Sri)	Office Assistant
Unnikrishnan S (Sri)	Cleaner	Nandakumaran T (Sri)	Office Assistant
` ,		Vindhya Sugathan	Office Assistant
Valsala P (Smt)	Cleaner		
Valsala T K (Smt)	Cleaner		

Radiation	Physics
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Radiation Physics	
Ramabhadran P (Sri)	Technical Officer (Radiation)
Anitha C (Smt)	Technical Officer (Radiation)
Radhakrishnan NairT (Sri)	Technical Officer (Radiation)
Sherif J S (Sri)	Technical Officer (Radiation)
Sreekala R (Smt)	Technical Officer (Radiation)
Mariamma Jacob (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 DeviT (Smt)	Technical Officer (Radiation)
Jayasree C G (Smt)	Technical Officer (Radiation)
Suja B R (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
Sinding 3.3 (Sint)	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

Jyothikumar S (Sri)	Sergeant
Satheeshkumar K S (Sri)	Tel.Operator Cum Recp. Gr.
Sreekumar C (Sri)	Tel.Operator Cum Recp.
Sukumaran Nair R (Sri)	Security Guard
Vikraman Chettiar B. (Sri)	Security Guard
Krishnan Kutty A. (Sri)	Security Guard
Unnikrishnapillai V (Sri)	Security Guard
Ajithkumar M. (Sri)	Security Guard
Ajikumar S.L.(Sri)	Security Guard
Jayachandran Nair R (Sri)	Security Guard

Supporting Services

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

Surgical Oncology Mohanan Pillai R (Sri)

Mohanan Pillai B (Sri)	Theatre Technician
	(Aneasthesia) Sr.Gr.
Abin Issac (Sri)	Operation Theatre Technician
Rajendran Nair P (Sri)	Operation Theatre Technician
Manju RS (Smt)	Operation Theatre Technician
Kirankumar (Sri)	Operation Theatre Technician
Santhosh S (Sri)	Operation Theatre Technician
Jayasree S (Smt)	Typist Gr. I
Viswakumar N (Sri)	Typist Gr. I
Suresh P S (Sri)	Senior Helper
Senan S (Sri)	Senior Helper

Transfusion Medicine

Scientific Assistant
Lab Technician Sel. Gr.
Lab.Technician Sr.Gr.
Lab.Technician Sr.Gr.

e. Dismissals/Retrenchments: Nil

f. Retirements

Sylaja C (Smt)	Office Assistant Sel.Gr (31.05.2015)
Sudevi R (Smt)	Sr Personal Assistant (31.05.2015)
Anita Nayar (Smt)	Social Investigator Sel. Gr. (31.08.2015)
Gangadharan V (Sri)	Gardener Gr. I (31.05.2015)

g. Obituary: Nil

Standing Committees

	. .		_	•
a.	Scier	ntitic	Com	mittee

- Dr. Asha Kishore Chairman Director, SCTIMST, Thiruvananthapuram
 Dr. Paul Sebastian Alternate Chairman
- 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
- 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
- Dr. Meenu Hariharan Member
 Director of Medical Education (Retired)
 Thiruvananthapuram
- 10. Dr. K. Ramadas ConvenerMedical SuperintendentRegional Cancer Centre, Thiruvananthapuram.

b. Institutional Review Board

- Dr. Paul Sebastian Chairman
 Director, Regional Cancer Centre
 Thiruvananthapuram.
- Dr. P.G. Jayaprakash, Member Prof. & Head, Division of Radiation Oncology Regional Cancer Centre, Thiruvananthapuram.
- Dr. K. Ramachandran, Member Professor & Head, Division of Imageology Regional Cancer Centre, Thiruvananthapuram.
- 4. Dr. P. Kusumakumary Member Additional Director Regional Cancer Centre, Thiruvananthapuram.
- 5. Dr. K. Ramadas Member Medical Superintendent Regional Cancer Centre, Thiruvananthapuram.

- 6 Dr. Iqbal Ahamed M Member Professor & Head Division of Surgical Oncology, Regional Cancer Centre Thiruvananthapuram.
- 7. Dr. K. Jayasree Member Professor & Head, Division of Pathology Regional Cancer Centre, Thiruvananthapuram
- Dr. N. Geetha Member
 Professor & Head
 Division of Medical Oncology
 Regional Cancer Centre, Thiruvananthapuram.
- Dr. Aleyamma Mathew Member Additional Professor & Head Division of Cancer Epidemiology & Biostatistics Regional Cancer Centre, Thiruvananthapuram
- 10. Dr. P. Remani (Till 31 August 2015) Member Additional Professor & Head Division of Cancer Research Regional Cancer Centre, Thiruvananthapuram.
- Dr. S. Kannan (From 1 September 2015) Member Professor & Head
 Division of Cancer Research Regional Cancer Centre, Thiruvananthapuram.
- I2. Dr. Rachel Cherian KoshyProfessor & HeadDivision of Anaesthesiology, Regional Cancer CentreThiruvananthapuram.
- 13. Dr. Francis V. James ConvenerAdditional ProfessorDivision of Radiation OncologyRegional Cancer Centre, Thiruvananthapuram.

c. Ethics Committee

- I. Dr. M. Narendranathan Chairman 'Sreenilayam', Veerabhadra Gardens Pottakuzhi, Pattom P.O., Thiruvananthapuram.
- Dr. M. Radhakrishna Pillai Member
 Director, Rajiv Gandhi Centre for Biotechnology
 Thiruvananthapuram.
- Dr. C.C. Kartha Member
 Professor of Eminence
 Department of Molecular Medicine
 Rajiv Gandhi Centre for Biotechnology
 Thiruvananthapuram.
- 5. Dr.V. Retnavally Member

	Prof. of Pharmacology (Rtd.)		9.	Dr. Beela Sarah Mathew,	
	'Lekshmi', House No. 59			Addl. Professor, Radiotherapy	Member
	Vrindavan Housing Colony		10.	Dr. R. Rejnish Kumar,	
	Pattom, Thiruvananthapuram.			Addl. Professor, Radiotherapy	Member
5.	Adv. Krishnankutty Nair	Member	11.	Ms. R. Sreelekha, Chief Nursing Officer	Member
	'Arathy',T.C. 17/28, JERA 21		12.	Smt. Chandrika D,	
	Jagathy,Thiruvananthapuram.			Medical Records Officer	Member
6.	Smt. Darly Francis	Member	e. H	Hospital Infection Control Committee	
	'Bethelehem', D7D Moolayil Lane		Ī.	Dr. K. Ramadas, Medical Superintendent	Chairmar
	Sasthamangalam, Thiruvananthapuram		2.	Dr. Iqbal Ahamed,	
7.	Dr. Sanjeev V.Thomas	Member		HOD, Surgical Oncology	Member
	Professor of Neurology		3.	Dr. N. Geetha, HOD, Medical Oncology	Member
	Sree Chitra Tirunal Institute for Science &	& Technology	4.	Dr. Rachel Cherian Koshy,	
	Thiruvananthapuram.	3,		HOD, Anaesthesiology	Member
8.	Dr. Igbal Ahamed M	Member	5.	Dr. Swapna R. Nath, HOD, Microbiology	Member
	Professor and Head, Division of Surgical	Oncology	6.	Dr. K. Vijayalekshmi,	. 10111001
	Regional Cancer Centre, Thiruvananthapi		٥.	HOD, Transfusion Medicine	Member
9.	Dr. N. Geetha	Member	7.	Ms. R. Sreelekha, Chief Nursing Officer	Member
	Professor & Head, Division of Medical O	ncology	8.	Nursing Supdt., in charge of	1 ICITIBEI
	Regional Cancer Centre, Thiruvananthapi	0,	0.	Laundry & Linen Services	Member
10	Fr. Shoji Vechoorkarottu	Member	9	Nursing Supdt., in charge of	1 ICITIBEI
	Technologist & Social Worker		7.	Housekeeping Services	Member
	St. Aloysius Minor Seminary		10	Head Nurse in charge of CVAD	Member
	Cheshire Home Lane, Kuravankonam, Ko	wdiar Post		Infection Control Nurse	Member
	Thiruvananthapuram-695003			Controller of Finance	Member
П	Smt.Thankam Gopalakrishnan	Member		Purchase Officer	Member
	A51, 'Lekshmi', T.C. 9/2638(1), Elankom G			Ms. Lizyamma Jacob, Nursing Supervisor	Convene
	Vellayambalam, Thiruvananthapuram-695				CONVENE
12	Dr. Rejnish Kumar R	Convener		uilding Committee	
	Addl. Professor of Radiation Oncology	2011701101	١.	Chief Engineer, PWD	Cl :
	Regional Cancer Centre, Thiruvananthap	uram	_	(Buildings & Local Works)	Chairmar
יוג	- ·	G. 30111	2.	Chief Architect, PWD	Member
_	Medical Audit Committee	Ch aliment	3.	Director of Medical Education	Member
	Dr. K. Ramadas, Medical Superintendent	Chairman	4.	Principal, Medical College,	
۷.	Dr. P.G. Jayaprakash,	Marak		Thiruvananthapuram	Member
_	HOD, Radiotherapy	Member	5.	Director, RCC	Member
3.	Dr. Iqbal Ahamed,		6.	Controller of Finance, RCC	Member
	HOD, Surgical Oncology	Member	7.	Chief Construction Engineer, RCC	Convene
4.	Dr. N. Geetha, HOD, Medical Oncology	Member			
5.	Dr. P. Kusumamumary,				
	HOD, Paediatric Oncology	Member			
6.	Dr. K. Ramachandran, HOD, Imageology	Member			
7.	Dr.V.M. Pradeep, HOD, Nuclear Medicine	e Member			
0	D CL : MIZ I				

Member

8. Dr. Cherian M. Koshy, HOD, Palliative Care

g. Library Committee

١.	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

- I. Sri. V.S. Sunil. Accounts Officer
- 2. Smt. Lalitha B, Assistant Administrative Officer Gr. I
- 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 Sri.V. Surendran Nair, Public Relations Officer

c. Appellate Authority

Dr. K Ramadas, Medical Superintendent

d. Number of Applications

Received: 115 Disposed: 112 Pending: 09

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
- b. Audit committee meetings : Nil

: 1

c. Monitoring committees set up: Administrative committee consisting of all HODs, Medical Superintendent and Additional Directors with the Director as the Head, meets periodically to evaluate the functioning of the Centre.

Other matters

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

ACCOUNTS 2015-2016

REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM (Reg. No. 567/81) BALANCE SHEET AS ON 31st MARCH 2016

Schedule	Schedule Liabilities	Current Year (Rs.)	Current Year (Rs.) Previous Year (Rs.) Schedule Assets	Schedule	Assets	Current Year (Rs.) Previous Year (Rs.)	Previous Year (Rs.)
-	CAPITAL FUND	2,25,01,60,872.17	2,00,47,19,182.17	>	FIXED ASSETS	2,22,93,69,455.76	1,98,17,33,730.76
=	SPECIFIC FUNDS	45,54,23,130.65	33,04,98,625.80		PROVISION FOR DEPRECIATION	(1,16,23,13,963.64) (1,03,03,25,207.12)	(1,03,03,25,207.12)
	GRANT FROM GOVT: OF INDIA	2,03,85,428.00	4,80,00,000.00			1,06,70,55,492.12	95,14,08,523.64
	INTEREST ON GOVT: OF INDIA GRANT		1,00,59,462.61				
	GRANT FROM GOVT: OF KERALA	35,76,43,020.00	56,71,42,586.00	₹	INVESTMENTS	77,02,45,879.00	60,89,89,775.00
	CCL FUND	20,87,17,861.00	20,20,23,346.00				
≡	RADIO THERAPY RESEARCH FUND	7,25,621.00	7,25,621.00		CURRENT ASSETS AND LOANS		
	CURRENT LIABILITIES AND				AND ADVANCES		
	PROVISIONS			\ \	CLOSING STOCK	16,45,72,670.11	9,54,37,194.94
≥	CURRENT LIABILITIES -OTHERS	1,11,73,24,221.30	1,04,21,61,268.16	×	ADVANCES - OTHERS & OTHER	4,51,97,013.40	3,63,89,754.36
					C/A		
	PROVISION FOR GRATUITY	3,19,41,718.00	4,75,69,930.00	×	INVESTIGATION FEES RECEIVABLE	85,32,62,085.14	72,73,79,520.68
>	CREDITORS FOR GOODS SUPPLIED	23,03,83,121.25	10,91,65,398.25	₹	BALANCE WITH BANKS	61,56,64,120.46	43,74,06,341.06
				₹	BALANCEWITHTREASURY	62,20,17,012.00	87,22,61,012.00
				₹	CASH IN HAND	7,17,123.98	8,83,586.98
				λΙΧ	INCOME & EXPENDITURE A/C	53,39,73,597.16	63,19,09,711.33
TOTAL		4,67,27,04,993.37	4,67,27,04,993.37 4,36,20,65,419.99	TOTAL		4,67,27,04,993.37	4,36,20,65,419.99
≷	SIGNIFICANT ACCOUNTING POLICIES						

NOTES ON ACCOUNTS \geq Schedules I to XVI form an integral part of this Balance Sheet.

Thiruvananthapuram 16.10.2017 R. SANJEEV

DR. PAUL SEBASTIAN (Director)

(Controller of Finance)

As per my report of even date attached

For K. Abraham Mathew & Co. Chartered Accountants FRN 0110005

K. Abraham Mathew F.C.A.

Membership No.: 26195

REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM (Reg.No. 567/81) INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31 st MARCH 2016

	_						
Schedule	Expenditure	Current Year (Rs.)	Previous Year (Rs.)	Schedule	Income	Current Year (Rs.)	Previous Year (Rs.)
	OPENING STOCK	9,54,37,194.94	10,69,02,581.00		GRANT IN AID: GOVT OF KERALA	45,29,74,000.00	30,65,40,000.00
∢	PURCHASES MEDICINES, CHEMICALS ETC	69,81,60,229.00	58,25,51,348.50		INVESTIGATION FEEES	53,78,35,073.70	49,45,47,136.57
В	SALARIES AND ALLOWANCES	65,46,52,385.60	62,96,89,568.00		MEDICINE RECEIPTS	58,76,17,867.20	57,26,83,335.34
	UNIFORM AND LIVERIES	10,87,123.00	6,41,018.00		INTEREST INCOME	1,98,06,742.00	1,12,86,131.00
U	RENT, RATES & TAXES	15,01,736.73	2,81,112.84	\vee	TRAINING FEES	2,46,76,475.00	2,01,10,429.00
	POSTAGE, TELEPHONE & TELEGRAM	5,27,681.50	5,45,234.50		FLOOR RENT RECEIVED	00'000'09	00'000'09
Ш	TRAVELLING EXPENSES	2,45,109.00	4,00,328.00		INTEREST ON RADIOTHERAPY RESEARCH FUND	44,789.00	45,979.00
	PRINTING & STATIONERY	21,98,066.00	26,95,152.00		PHOTOCOPYING INCOME	56,980.00	49,900.00
	ADVERTISMENT CHARGES	11,06,192.00	35,71,361.00	_	MISCELLAENOUS INCOME	1,08,68,434.79	45,21,905.61
ட	ELECTRICITY & WATER CHARGES	3,66,94,313.00	3,23,00,280.37		PRIOR PERIOD INCOME	4,85,359.00	34,91,862.90
U	REPAIRS & MAINTENANCE	3,25,12,963.50	2,11,61,430.00		CLOSING STOCK	16,45,72,670.11	9,54,37,194.94
I	SERVICE CONTRACT CHARGES	3,26,28,082.30	2,65,83,834.10		EXCESS OF EXPENDITURE OVER INCOME		5,88,12,184.93
	STATUTORY AUDIT FEES	1,75,000.00	1,75,000.00				
	INTERNAL AUDIT FEES	1,75,000.00	1,75,000.00				
_	COMPUTER EXPENSES	10,72,444.00	6,72,676.00				
	BOOKS & PERIODICALS	16,450.00	14,067.00				
	EXPENSES TO NTR	52,46,840.00	47,52,307.00				
	PRIOR PERIOD EXPENSES	7,84,425.00	1,96,84,802.59				
	MEDICINE ISSUES - FREE	59,098.00	1,15,727.50				
	MISCELLANEOUS EXPENSES	76,76,532.88	1,01,09,904.32				
	Depreciation	13,19,88,756.52	12,45,63,326.56				
	EXCESS OF INCOME OVER EXPENDITURE	9,50,52,767.83					
	TOTAL	1,79,89,98,390.80	1,56,75,86,059.29	TOTAL		08.065,86,98,71	1,56,75,86,059.29

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

Thiruvananthapuram 16.10.2017 DR. PAUL SEBASTIAN

R. SANJEEV (Controller of Finance)

(Director)

As per my report of even date attached For K. Abraham Mathew & Co.

Chartered Accountants FRN 0110005 K. Abraham Mathew F.C.A. Membership No.: 26195

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

TEPM Cost on 14.15 Additions Deduction 313,216 Deprecation 1,000,000 1,000				Gross Block				Depreciation		Net	Net Block
100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 1000000 1000000 100000000	ITEM	_	Additions	Deduction	Cost on	Kate of	Up to 31.3.15	Additions	Total upto	As on 31.3.2016	As on 31.3.2015
1,000,00 1,000,00					31.3.2016	Depreciation			31.3.2016		
NGS NGS NGS NGS NGS NGS NGS NGS	LAND	00:000'1	00:00		00'000'1		00'0		00:00	00'000'1	00'000'1
CONTROL	BUILDINGS	25,10,77,685.57	58,11,804.00		25,68,89,489.57	%0I	12,53,24,931.91	1,31,56,455.77	13,84,81,387.68	11,84,08,101.89	12,57,52,753.66
SCAPE STATE STAT	CIVIL WORKS	3,09,140.63	00'0		3,09,140.63	%01	1,54,169.62	15,497.10	1,69,666.72	1,39,473.91	1,54,971.01
SECONDERINGS 1,598,143,130 1,598,134,3 1,588 1,686,548 1,686,548 1,686,548 1,686,548 1,686,548 1,686,548 1,686,548 1,686,548 1,686,548 1,686,548 1,686,548 1,686,548 1,686,548 1,686,548 1,686,548 1,686,548 1,686,548,548 1,686,548 1,686,548 1,686,548 1,686,548 1,686,548,548 1,686,548 1,6	COBALT UNIT	1,81,23,455.30	00'0		1,81,23,455.30	15%	1,62,73,152.36	2,77,545.44	1,65,50,697.80	15,72,757.50	18,50,302.94
URE AND FITTINGS 291,4666.48 245316300 31,5982848 108 EQUIPPENTS 1021,923037 158 158 158 ALA LAB EQUIPMENTS 1021,923037 158 158 ALA INSTALLATION 46,2840000 591,103000 850,000 158 RICAL NISTALLATION 46,2840000 13,103400 46,2840000 158 NDDTIONING 46,2840000 13,8775000 47,885,803.5 158 NDDTIONING 46,2840000 13,8175000 47,885,803.5 158 NDCYLINDER 43,339,540 124,107290 5,295,025.00 158 ND ELEVATOR 13,084,521.0 18,14785.00 10,1384,321.0 158 ND ELEVATOR 13,088,57.0 140,16,990 7,116,21,830 158 ND ELEVATOR 13,085,76.0 0,00 3,11,489,40 158 NEGY LINEAR ACCELERATOR 36,11,489,40 0,00 36,11,489,40 158 C.D. 12,070,240 649,679,20 12,070,240 158 NEGALINEAR ACCELERATOR 1,17,340,43	WATER SUPPLY AND DRAINAGE	65,63,373.43	00'0		65,63,373.43	%51	43,49,731.13	3,32,046.35	46,81,777.48	18,81,595.96	22,13,642.30
EQUIPMENTS 27,18018.43 7,508.00 27,25,26.43 158 FAL & LAB. EQUIPMENTS 10,21,504,2307 16,928,7000 11,284,229,307 158,4000 FAL & LAB. EQUIPMENTS 1,02,1504,2307 16,928,7000 16,284,000 158,4000 FECH INTERLATION 4,623,8003 1,234,10300 4,788,6003 15,804,000 FECH INTERLATION 4,623,8003 1,241,0729 6,555,502,530 6,05 JUD CYLINDER 1,038,453,205 0,00 1,038,433,205 15,80 JUD CYLINDER 1,338,531,00 1,401,699,00 7,81,336,336 15,80 JUD CYLINDER 1,308,837,00 1,401,699,00 7,81,336,336 15,80 JUN ELEVATOR 1,308,837,00 1,401,699,00 3,701,120 15,80 JOON SALD JOURNALS 6,45,25,07 0,00 7,102,186,300 15,80 JONE ELEVATOR 1,308,837,60 0,00 7,102,186,300 15,80 AL ELEVEDOLINER ACCELERATOR 3,51,140,00 0,00 7,102,186,300 15,80 CC) 1,17,346,40 0,00 <t< td=""><td>FURNITURE AND FITTINGS</td><td>2,91,46,665.48</td><td>24,53,163.00</td><td></td><td>3,15,99,828.48</td><td>%01</td><td>1,53,92,358.38</td><td>16,20,747.01</td><td>1,70,13,105.39</td><td>1,45,86,723.09</td><td>1,37,54,307.10</td></t<>	FURNITURE AND FITTINGS	2,91,46,665.48	24,53,163.00		3,15,99,828.48	% 01	1,53,92,358.38	16,20,747.01	1,70,13,105.39	1,45,86,723.09	1,37,54,307.10
FAL BLEQUIPMENTS 1,0215,04,230,97 1,028,700,00 1,1284,3293,97 158 RGAR LNSTALLMTON 7,9997,128,90 59,11,030,00 85,081,889 158 FTECTION 46,528,100,00 1,384,320,00 1,384,320,00 1,384,330,00 NINDITIONING 46,528,100,30 1,24,10729,00 4,788,580,33 158 JUCYLINDER 4,333,95,24,00 1,24,10729,00 1,038,4532,05 1,538 ND CYLINDER 3,306,1675,60 186,1496,00 4,788,580,00 1,538 ND CYLINDER 1,038,4532,05 0.00 1,338,4532,05 1,538 ND CYLINDER 1,038,473,00 1,401,690,00 4,738,500,00 1,538 ND CYLINDER 1,000,00 1,401,690,00 1,400,00 1,540,00 1,540,00 ND CYLINDER 1,000,00 1,401,690,00 0,00 1,540,00 1,540,00 1,540,00 1,540,00 1,540,00 1,540,00 1,540,00 1,540,00 1,540,00 1,540,00 1,540,00 1,540,00 1,540,00 1,540,00 1,540,00 1,540,00 1,540,00	OFFICE EQUIPMENTS	27,18,018.43	7,508.00		27,25,526.43	15%	25,07,147.50	32,756.84	25,39,904.34	1,85,622.09	2,10,870.93
WICAL INSTALLATION 7,9097,128.90 59,11,030.00 158,100,0158.90 158,100,0158.90 STECTION 46,228,100.00 135,7750.00 4,7865,880.35 158,750.00 ADDITIONINIG 46,228,100.30 13,7750.00 158,600.233.00 158,755.00 ADDITIONINIG 1,038,453.05 10,410,729.00 1,038,453.05 158,755.00 ADD CALINDER 3,061,675.60 186,1496.00 49,23,171.60 158,755.00 ES Y BOOKS AND JOURNALS 6,97,888.88.65 83,14,785.00 10,038,453.00 158,755.00 ES Y BOOKS AND JOURNALS 6,97,888.88.65 83,14,785.00 1,03,845.30 158,755.00 ADONE EQUIPMENTS 3,000 EQUIPMENTS 3,000 EQUIPMENTS 3,000 EQUIPMENTS 1,000,186.30 158,756.00 COND EQUIPMENTS & OTHER ASSETS 6,45,25,071.00 0,00 5,2987,763.00 158,760.00 CT TALEMEDICINES PROJECT 77,186,23.00 1,000 1,000 1,000 CT TALE EQUIPMENTS & OTHER ASSETS 6,45,25,071.00 41,22,236.00 2,007,87,96.00 1,000 E.EQUIP		1,02,15,04,230.97	10,69,28,700.00		1,12,84,32,930.97	%S1	59,48,41,302.86		67,48,80,047.08	45,35,52,883.89	42,66,62,928.11
SECTION	ELECTRICAL INSTALLATION	7,90,97,128.90	59,11,030.00		8,50,08,158.90	%51	5,13,54,237.07	50,48,088.27	5,64,02,325.34	2,86,05,833.56	2,77,42,891.83
Variation Vari	HRE DETECTION	46,28,400.00			46,28,400.00	15%	41,13,470.89	77,239.37	41,90,710.26	4,37,689.74	5,14,929.11
USA	AIR CONDITIONING	4,65,28,130.35	13,57,750.00		4,78,85,880.35	15%	2,85,76,522.88		3,14,72,926.50	1,64,12,953.85	1,79,51,607.47
VEX.	COMPUTER HARDWARE & SOFTWARE	4,35,39,524.00	1,24,10,729.00		5,59,50,253.00	%09	3,62,32,286.86	1,18,30,779.68	4,80,63,066.54	78,87,186.46	73,07,237.14
ES 3061675.60 18.61,496.00 49.23,171.60 15% Y BOOKS AND JOURNALS 6,978818.65 83,14785.00 7,81,03,603.65 15% UD ELEVATOR 1.3088,571.00 1,40,16,989.00 2,71,05,560.00 15% UONE EQUIPMENTS 6,032,47.00 38,950.00 3,70,112.00 15% UONE EQUIPMENTS & CTHEMEDICINES PROJECT 77,18,623.00 0.00 3,70,10,18,63.00 15% UNECY LINEAR ACCELERATOR 5,29,877,63.00 0.00 3,70,10,21,863.00 15% UNECY LINEAR ACCELERATOR 36,11,489.40 0.00 3,70,10,21,863.00 0.00 12,70,23,000 0.00 12,70,23,000 0.00 0.00 12,70,23,000 0.00 0.00 0.00 0.00 0.00 0.00 0.00	GAS AND CYLINDER	1,03,84,532.05	00'0		1,03,84,532.05	15%	75,86,920.62	4,19,641.71	80,06,562.33	23,77,969.72	27,97,611.43
SECONDER NOTE	VEHICLES	30,61,675.60	18,61,496.00		49,23,171.60	15%	18,00,475.47	4,68,404.42	22,68,879.89	26,54,291.71	12,61,200.13
January Janu	LIBRARY BOOKS AND JOURNALS	59.818'88'26'9	83,14,785.00		7,81,03,603.65	%51	3,98,14,609.24	57,43,349.16	4,55,57,958.40	3,25,45,645.25	2,99,74,209.41
CONNATIONS 3.70,112.00 0.00 3.70,112.00 158	LIFT AND ELEVATOR	1,30,88,571.00	1,40,16,989.00		2,71,05,560.00	15%	82,20,084.77	28,32,821.28	1,10,52,906.05	1,60,52,653.95	48,68,486.23
FOWER GENERATOR S, 29,87,763.00 0.00 5, 29,87,763.00 158 FINERGY LINEAR ACCELERATOR 5, 29,87,763.00 0.00 5, 29,87,763.00 158 FILE EMEDICINES ROJECT 77,18,623.00 0.00 77,18,623.00 158 FAL EQUIPMENTS & OTHER ASSETS 6, 45,25,071.00 64,96,792.00 77,10,21,863.00 158 FAL EQUIPMENTS & OTHER ASSETS 6, 45,25,071.00 64,96,792.00 77,10,21,863.00 158 CI) NARGY LINEAR ACCELERATOR 36, 11,489.40 0.00 36, 11,489.40 158 IN PROCRESS 56,08,581.00 41,22,236,00 18,30,760.00 18,30,760.00 18,30,760.00 18,30,760.00 18,30,760.00 10,70,70,24.00 12,07,024.00 12,024.00 12,	ASSETS (DONATIONS)	3,70,112.00	00'0		3,70,112.00	15%	3,44,169.73	3,891.34	3,48,061.07	22,050.93	25,942.27
NERGY LINEAR ACCELERATOR 5,2987,763.00 0.00 5,29,87,763.00 158, 1-TELEMEDICINES PROJECT 77,18,623.00 0.00 77,18,623.00 158, 1-TELEMEDICINES PROJECT 77,18,623.00 0.00 77,18,623.00 158, 1-TELEMEDICINES PROJECT 77,18,623.00 158, 1-TELEMEDICINES PROJECT 77,18,623.00 158, 1-TELEMEDICINES PROJECT 77,18,623.00 158, 1-TELEMEDICINES PROJECT 34,11,489.40 0.00 36,11,489.40 158, 1-TECTION - WORK IN PROGRESS 56,08,581.00 41,22,236.00 18,30,760.00 18,30,760.00 12,07,024	TELEPHONE EQUIPMENTS	60,23,247.00	38,950.00		60,62,197.00	15%	41,60,241.70	2,85,293.30	44,45,535.00	16,16,662.01	18,63,005.30
FTELEMEDICINES PROJECT 77,18,623.00 64,96,792.00 77,18,623.00 15% TALE EQUIPMENTS & OTHER ASSETS 6,45,25,071.00 64,96,792.00 77,10,21,863.00 15% CT) NERGY LINEAR ACCELERATOR 36,11,489.40 0.00 36,11,489.40 15% IN PROGRESS 56,08,581.00 41,22,236.00 36,11,489.40 15% E.E. CHUPMENTS - WORK IN PROGRESS 1,73,31,069.00 30,17,230.00 10,000	HIGH ENERGY LINEAR ACCELERATOR	5,29,87,763.00	00'0		5,29,87,763.00	15%	4,41,20,618.77	13,30,071.63	4,54,50,690.40	75,37,072.60	88,67,144.23
CT CT CT CT CT CT CT CT	ASSETS-TELEMEDICINES PROJECT	77,18,623.00	00'0		77,18,623.00	%51	65,85,618.87	79'056'69'1	67,55,569.49	15'83'023'21	11,33,004.13
NEGY LINEAR ACCELERATOR 36,11,489.40 0.00 36,11,489.40 15% NAROCRESS 56,08,581.00 41,22,236,00 97,30,817.00 STECTION -WORK IN PROGRESS 56,08,581.00 41,22,236,00 18,30,760.00 STECTION -WORK IN PROGRESS 56,08,581.00 41,22,236,00 18,30,760.00 STECTION -WORK IN I,17,34,043.00 90,53,919.00 2,07,87,96,200 STECTION -WORK IN I,17,34,043.00 90,53,919.00 2,07,87,96,200 STECTION -WORK IN I,17,34,043.00 90,53,919.00 2,07,87,96,200 STECTION -WORK IN PROGRESS 1,73,31,069.00 30,17,230.00 30,17,230.00 STECTION -WORK IN PROGRESS 1,73,31,069.00 33,22,539.00 3,32	HOSPITAL EQUIPMENTS & OTHER ASSETS	6,45,25,071.00	64,96,792.00		7,10,21,863.00	15%	3,59,45,763.71	52,61,414.89	4,12,07,178.60	2,98,14,684.40	2,85,79,307.29
Name	(PROJECT)				07 007 11 70	/01	07 000 70 70	1 477 1 4 40	77 700 37 77	C1 C07 7C0	C / 700 NO 0
EQUIPMENTS - WORK IN PROGRESS 56,08,581.00 11,22,236,00 97,30,817.00 ES 12,07,024.00 18,307,60.00 12,07,024.00 12,07,024.00 12,07,024.00 12,07,024.00 12,07,024.00 12,07,024.00 12,07,024.00 12,07,024.00 12,07,024.00 12,07,87,96.20 12,07,024.00 12,07,024.	WORK IN PROGRESS		000		04.704,11,00	%C	07.725,12,02	7+.+10,/+,1	77.100,61,12	0,30,402.13	7,04,070,05
EQUIPMENTS - WIP 120702400 0.00 18,30,760.00 18,30,760.00 12,07,024.0	FIRE DETECTION - WORK IN PROGRESS	56.08.581.00	41.22.236.00		97.30.817.00					97,30,817,00	56.08.581.00
EQUIPMENTS - WIP	VEHICLES		18,30,760.00		18,30,760.00					18,30,760.00	00'0
NCAL INSTALLATION - WORK IN	OFFICE EQUIPMENTS - WIP	12,07,024.00	00'0		12,07,024.00					12,07,024.00	12,07,024.00
AD ELEVATOR 1,25,21,400.00 1,25,21,400.00 30,17,230.00 30,17,230.00 30,17,230.00 30,17,230.00 30,17,230.00 30,17,230.00 30,17,230.00 30,17,230.00 30,17,230.00 30,17,230.00 10,17,230.00 10,17,230.00 10,17,230.00 10,17,230.00 11,17,331,069.00 11,17	ELECTRICAL INSTALLATION - WORK IN	1,17,34,043.00	90,53,919.00		2,07,87,962.00					2,07,87,962.00	1,17,34,043.00
19,85,34,958.00	I IFT AND FI EVATOR	1 252 1 400 00		1 25 21 400 00	000					000	1.25.21.400.00
POWER GENERATION SYSTEM - 79,20,000,000	HOSPITAL & LAB. EQUIPMENTS - WORK		30,17,230.00		30,17,230.00					30,17,230.00	
POWER GENERATION SYSTEM - 79,20,000,000 79,20,000,000 IN PROGRESS 19,85,34,958,00 6,39,61,483,00 26,24,96,441,00 NDTIONING-WORK IN PROGRESS 1,73,31,069,00 48,34,892,00 5,25,630,00 2,16,40,331,00 332,539,00 3,32	IN PROGRESS										
NGS WORK IN PROGRESS 1985,34958.00 6,3961,483.00 2,16,40,331.00 NDTIONING - WORK IN PROGRESS 1,73,31,069.00 48,34,892.00 5,25,630.00 2,16,40,331.00 3,32,539.00 3,32,539.00 3,32,539.00 3,32,539.00 3,32,539.00 3,32,539.00	SOLAR POWER GENERATION SYSTEM - WORK IN PROGRESS		79,20,000.00		79,20,000.00					79,20,000.00	0.00
NDITIONING - WORK IN PROGRESS 1,73,31,069,00 4834,892,00 5,25,630,00 2,16,40,331,00 5,10,10,10,10,10,10,10,10,10,10,10,10,10,	BUILIDINGS WORK IN PROGRESS	19,85,34,958.00	6,39,61,483.00		26,24,96,441.00					26,24,96,441.00	19,85,34,958.00
JULDING - SOIL INVESTIGATION 3,32,539,00 3,32,539,00	AIR CONDITIONING - WORK IN PROGRESS	00.690,18,57,1	48,34,892.00	5,25,630.00	2,16,40,331.00					2,16,40,331.00	1,73,31,069.00
\[\frac{1}{2} \fr	NEW BUILDING - SOIL INVESTIGATION CHARGES - WORK IN PROGRESS		3,32,539.00		3,32,539.00					3,32,539.00	0.00
10,191,13,13,136,13,136,14,133,130,16,13,14,133,130,10,11,13,14,103,10,10,13,13,13,13,13,13,13,13,13,13,13,13,13,		1,98,17,33,730.76	26,06,82,755.00	1,30,47,030.00	2,22,93,69,455.76		1,03,03,25,207.12	13,19,88,756.52	1,16,23,13,963.64	1,06,70,55,492.12	95,14,08,523.64

Thiruvananthapuram 16.10.2017

DR. PAUL SEBASTIAN (Director)

(Controller of Finance) R. SANJEEV

For K. Abraham Mathew & Co. K. Abraham Mathew F.C.A. Membership No.: 26195 Chartered Accountants FRN 0110005

As per my report of even date attached

REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM (Reg. no. 567/81) CANCER CARE FOR LIFE SCHEME INCOME AND EXPENDITURE ACCOUNT FOR THEYEAR ENDED 31st MARCH 2016

Expenditure	Current Year (Rs.)	Previous Year (Rs.)	Income	Current Year (Rs.)	Previous Year (Rs.)
Reimbursement to Patients	1,34,00,739.16	1,31,18,474.00	Interest on FD & Investments	1,67,29,167.00	1,55,79,903.00
Transfer to CCL Membership	4,45,081.50				
Fee A/c					
Excess of Income over	28,83,346.34	24,61,429.00			
Expenditure					
TOTAL	1,67,29,167.00	1,55,79,903.00		1,67,29,167.00	1,55,79,903.00

Thiruvananthapuram 16.10.2017

> DR. PAUL SEBASTIAN (Director)

R. SANJEEV (Controller of Finance) As per my report of even date attached

INDEPENDENT AUDITOR'S REPORT

To

The Members of Regional Cancer Centre Society. Thiruvananthapuram

We have audited the accompanying financial statements of the REGIONAL CANCER CENTRE SOCIETY, Thiruvananthapuram which comprise the Balance Sheet as at 31st March, 2016 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

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance in accordance with the accounting principles generally accepted in India to the extent applicable to the Society. This responsibility includes the 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.

Auditor's 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 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 in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by 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.

Basis for Qualified Opinion

As explained in Annexure I, the society has not obtained confirmations as at the year-end on 31.03.2016 for Investigation Fees 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 of 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.

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 matters described in the Basis of Qualified Opinion paragraph (details in Annexure I), the said 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:

- (i) in the case of the Balance Sheet, of the state of affairs of the Society as at 31st March, 2016; and
- (ii) in the case of the Income and Expenditure Account of the surplus for the year ended on that date.

Emphasis of Matter

We draw attention to Note 1 in Notes on Accounts regarding accounting of Government grants 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.

Thiruvananthapuram 16-10-2017

SCHEDULE – XV SIGNIFICANT ACCOUNTING POLICIES

I. ACCOUNTING ASSUMPTIONS

The accounts have been prepared under the historic cost convention on the basis of a going concern, with revenues recognised and expenses accounted on their accrual (except income from investments, treatment expenditure in respect of patients, which is accounted only at the settlement of bills and leave surrender salary which are accounted as and when income/expense is actually received or 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 the clause no. I above.

3. INVENTORIES

Inventories are valued at cost or net realizable value whichever is less. Cost includes freight and other related incidental expenses and is computed 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 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 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 funds 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. Capital Grant received from NRHM during the previous years has been included under capital fund account as it represents the fixed assets acquired.

7. CAPITAL FUND

Capital Fund Account balance includes the fund balance at the beginning of the year, Capital Grants to the extent used for acquisition / construction of fixed assets, 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 projects are credited to capital fund account as the Society received these assets as free of cost.

10. RETIREMENT BENEFITS

The liability on account of post-employment 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.

Thiruvananthapuram 16.10.2017

> DR. PAUL SEBASTIAN (Director)

R. SANIEEV (Controller of Finance) As per my report of even date attached

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 years 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 registeration fees, ward charges, nuclear medicine, radiotherapy, surgery and lab.
- 3. There is surplus or profit 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 Tax Act 1961.
- 4. Contingent liability towards property tax and interest thereon is amounting to Rs. I, 04, 67, 369/- Non-refund of Grant-in-aid is contingent upon the fulfillment 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 35,57,81,524/- and similarly Grant-in-Aid from Government of India of Rs. 2,03,85,428/- 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.

Thiruvananthapuram 16.10.2017

> DR. PAUL SEBASTIAN (Director)

R. SANIEEV (Controller of Finance) As per my report of even date attached

TO WHOMSOEVER IT MAY CONCERN

1. During the year 2015-16, The Regional Cancer Centre Society, Thiruvananthapuram has received Rs. 1,710.94 lakhs under the head of account 2210-05-105-52-36 (NP) Grant in Aid- Non-Salary and Rs. 2,818.80 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)
Α	Head of Account- 2210-05-105-52-36(NP)- Grant in Aid- Non Salary	
1	G.O.(Rt)No. 1857/15/H & FWD dated 19 June 2015	285.00
2	G.O.(Rt)No. 2392/15/H & FWD dated 25 July 2015	285.00
3	G.O.(Rt)No. 3246/2015/H & FWD dated 15 Oct 2015	285.00
4	G.O.(Rt)No. 27/2016/H & FWD dated 05 Jan 2016	285.00
5	G.O(Rt)No. 427/2016/H & FWD dated 08 Feb 2016	570.94
	Total	1710.94
В	Head of Account- 2210-05-105-52-31 (NP)- Grant in Aid- Salary	
1	G.O.(Rt)No. 1857/15/H & FWD dated 19 June 2015	470.00
2	G.O.(Rt)No. 2392/15/H & FWD dated 25 July 2015	470.00
3	G.O.(Rt)No. 3246/2015/H & FWD dated 15 Oct 2015	470.00
4	G.O.(Rt)No. 27/2016/H & FWD dated 05 Jan 2016	470.00
5	G.O(Rt)No. 427/2016/H & FWD dated 08 Feb 2016	938.80
	Total	2818.80
	Grand Total (A+B)	4529.74

^{2.} The amount was used during the year 2015-16 for the following purposes:

SI. No.	Purpose	Amount (Rs. in lakhs)
1.	Operational expenditure including salary	4529.74
	Total	4529.74

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

Thiruvananthapuram 16.10.2017

> DR. PAUL SEBASTIAN (Director)

R. SANJEEV (Controller of Finance) As per my report of even date attached

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 P.O, Thiruvananthapuram-695011, Kerala State for the year ended 31st March, 2016 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 2015-2016 was Rs.4,53,10,487.39
- Foreign Contribution worth Rs.1,09,91,152.53 was received by the Association during the year ended 31st March,2016.
- 3. The balance in foreign contribution account together with interest earned thereon at the end of the financial year 2015-2016 was Rs.4,93,36,182.76
- 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.

Thiruvananthapuram 19 November 2016

REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM

(Reg. No.567/81)

Foreign contribution for Research Projects Balance Sheet as at 31st March 2016

LIABILITIES	Amt (Rs Ps.)	Amt (Rs. Ps.)	ASSETS	Amt (Rs. Ps.)
CAPITAL FUND			FIXED ASSETS	
			Computer	21,83,574.00
Capital Fund Account Balance		1,11,03,017.84	Printer & UPS	2,71,010.00
			Fax Machine	51,359.00
			Refrigerator	11,953.00
			Deep Freezer	1,23,674.00
Project Balances as Per Schedule		1,85,44,608.99	Vehicle	23,80,744.00
			FAN	3,687.00
			Furniture	6,68,672.29
Research Funds as per Schedule		3,07,91,573.77	Equipments	40,76,541.00
			Air Conditioner	2,23,239.00
			Photocopier	3,22,735.00
			Building Addl. Facilitites	7,85,829.55
CURRENT LIABILITIES			INVESTMENTS	
Salary Recovery	40,079.00		Term Deposit with Syndicate Bank	27,94,240.00
			Term Deposit with S.B.T	3,82,36,242.00
Payable to Res: Project a\c	2,38,581.00		Term Deposit with Fed.Bank	24,84,341.00
			Term Deposit with PNB	16,58,942.00
Other Current Liabilities	1,55,000.00	4,33,660.00		
			CURRENT ASSETS &	
			LOANS AND ADVANCES	
			Cash in Hand	81,265.00
			Cash at Bank	12,82,703.76
			Interest Accrued but not due	32,03,109.00
			Projects receivable	2,000.00
			Imprest	7,000.00
			Rent Deposits	20,000.00
TOTAL		6,08,72,860.60	TOTAL	6,08,72,860.60

Vide my report of even date attached.

Thiruvananthapuram 19th November 2016 Finance Manager (Projects)

DIRECTOR

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 2016

RECEIPTS	Amt (Rs)	PAYMENTS	Amt (Rs)
To Opening Balance:-		By Project Expenses:-	
Cash in Hand	31,716.00	" Revenue Expenses paid	97,99,201.94
Cash at Bank	43,63,910.39		
		" Capital Expenses paid	80,450.00
Foreign Receipts for various Projects	1,09,91,152.53		
(As per Schedule attached)		Other expenses paid	60,461.00
Rent Deposit	10,000.00	Donation for Kinginicheppu	17,75,207.87
Recovery from Salary	2,22,317.00	Salary Recovery Account	2,16,627.00
Other Advance Recovered	45,000.00	Other Advances paid	47,000.00
Donation received for RCC	8,57,361.65	Paid to Research Projects	3,53,499.00
Interest Received	1,74,958.00	Taxes paid	70,418.00
Tax recoveries	70,418.00	Term Deposits renewed	1,05,82,729.00
Term Deposits matured	75,82,729.00	To Closing Balance:-	
		Cash in Hand	81,265.00
		Cash at Bank	12,82,703.76
TOTAL	2,43,49,562.57	TOTAL	2,43,49,562.57

Vide my report of even date attached.

Thiruvananthapuram 19th November 2016 Finance Manager (Projects)

DIRECTOR

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 2016

Liabilities	Amt (Rs. Ps.)	Amt (Rs. Ps.)	Assets	Amt (Rs. Ps.)	Amt (Rs. Ps.)
Capital Fund		99,63,577.62			
·			Fixed Assets:- Sch-2		1,13,951.15
R&D Fund -Sch.5		7,32,92,366.38			
			Investments		
Training Fund(Schedule-6)		1,88,03,881.55	TERM DEPOSITS :		
			Syndicate Bank	14,64,543.81	
Internal Projects Balances		24,40,750.00	Union Bank of India	13,13,125.00	
(Schedule-7)			SBT	9,34,10,354.00	
Current Liabilities			Punjab Nat. Bank	65,24,116.00	10,27,12,138.81
Security Deposits	2,03,752.00		Current Assets &		
Project Balances as per Sch-I	4,52,60,599.21		Loans and Advances		
FC payable	2,000.00		Foreign Contribution		
EPF Recovery	32,322.00	4,54,98,673.21	Receivable Account	2,38,581.00	
			Cash in Hand - Sch-3	1,43,094.00	
			Cash at Bank - Sch-4	2,91,38,310.07	
			Rent Deposit	20,000.00	
			Interest Accrued but	1,52,27,556.00	
			not Due		
			TDS	24,05,617.73	4,71,73,158.80
TOTAL		14,99,99,248.76	TOTAL		14,99,99,248.76

Vide my report of even date attached

Thiruvananthapuram 19th November 2016 Finance Manager (Projects)

DIRECTOR

PROJECT CELL REGIONAL CANCER CENTRE SOCIETY, TRIVANDRUM (REG. No. 567/81)

Income and Expenditure Account for the year ended on 31st March 2016

Expenditure	Amt (Rs. Ps.)	Income	Amt (Rs. Ps.)
Salary Paid	4,53,964.00	Income from Projects	27,19,152.00
Travelling Expenses	13,335.00	Interest received	1,22,59,226.92
Audit Fee	60,000.00		
Printing & Stationery	23,000.00		
Computer Stationery	2,464.00		
Postage Expenses	1,100.00		
Other Miscellaneous Expenses	18,057.73		
Depreciation	14,111.47		
Excess of Income Over Expenditure	1,43,92,346.72		
TOTAL	1,49,78,378.92	TOTAL	1,49,78,378.92

Vide my report of even date attached

Thiruvananthapuram 19th November 2016 Finance Manager (Projects)

DIRECTOR

REGIONAL CANCER CENTRE SOCIETY, PERIPHERAL CENTRE OF RCC AT NEENDAKARA

Income and Expenditure Account for the year ended on 31st March 2016

Expenditure	Amount (Rs. Ps.)	Income	Amount (Rs.Ps.)
Salary	19,06,713.00	Grant-in-Aid received (G.O Rt.No.2810/2015/ H&FWD, Dt.03/09/2015)	15,00,000.00
Medicines	9,66,528.00	Grant-in-Aid received (G.O Rt.No.436/2016/ H&FWD, Dt.09/02/2016)	19,56,000.00
Consumables	53,822.00	Excess expenditure advanced by RCC	5,784.00
Travel Expenses	75,886.00		
Contingencies	1,85,500.00		
Detection Camp Expenses	86,731.00		
Furniture	73,840.00		
Laboratory Equipment	1,12,764.00		
TOTAL	34,61,784.00	TOTAL	34,61,784.00

Thiruvananthapuram 25th July 2016

Finance Manager (Projects)

DIRECTOR

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

SI.No.	Letter No. & date	Amount (Rs. in lakhs)
- 1	Grant-in-Aid received (Rt.No.2810/2015/H&FWD, Dt.03/09/2015)	15.00
2	Grant-in-Aid received (Rt.No.436/2016/H&FWD, Dt.09/02/2016)	19.56
	Total	34.56

Certified that out of Rs. 34,56,000/- of grants-in-aid sanctioned for the peripheral Centre at Neendakara, Kollam District, Regional Cancer Centre during the year 2015-16, a sum of Rs.34,61,784/- has been utilized for the purpose for which it has been sanctioned. The Income and Expenditure 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 Organisation, Genera, Switzerland

International Agency for Research on Cancer (IARC), Lyon, France

Union for International Cancer Control (UICC) Geneva, Switzerland

World Health Organisation, Regional Office, New Delhi

National Cancer Institute, Bethesda, Maryland, USA

Memorial Sloan-Kettering Cancer Centre, New York, USA

National Cancer Centre, Singapore

Health Research Foundation, Japan

Kagoshima University, Japan

Finnish Cancer Society, Finland

Indian Council of Medical Research, New Delhi

Atomic Energy Commission, Government of India

Bhabha Atomic Research Centre, Bombay

Indian Space Research Organisation

Sree Chitra Tirunal Institute of Medical Sciences & Technology, Thiruvananthapuram

Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram

Centre for Cellular and Molecular Biology, Hyderabad

University of Kerala, Thiruvananthapuram

Kerala University of Health Sciences, Thrissur

Mahatma Gandhi University, Kottayam

University Grants Commission

Kerala State Committee on Science, Technology and Environment, Thiruvananthapuram

C-DAC, Thiruvananthapuram

Centre for Earth Science Studies, Thiruvananthapuram

Medical College, Thiruvananthapuram

Sree Avittam Thirunal Hospital for Women and Children, Thiruvananthapuram

Dental College, Thiruvananthapuram

Department of Economics and Statistics, Kerala

Drugs Controller, Thiruvananthapuram

College of Pharmaceutical Sciences, Thiruvananthapuram

Corporation of Thiruvananthapuram

Regional Cancer Association, Thiruvananthapuram

Asianet TV

Kairali TV

Care Plus. Thiruvananthapuram

Asraya, Thiruvananthapuram

Navoothan Charitable Foundation

Prathyasa, Thiruvananthapuram

SDM Cancer Relief Fund, California

All our well-wishers and friends

