



**International  
Collaboration for  
Research methods  
Development  
in Oncology**

**CReDO workshop  
summary report**

**4<sup>th</sup> to 9<sup>th</sup> March 2018**

**Lonavala, India**



## Organised by



## Supported by

**TATA TRUSTS**

*National Cancer Institute, USA*



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**Collaborating partner**



## *About the workshop*

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The Tata Memorial Centre, Mumbai and the National Cancer Grid of India conducted a six-day residential workshop on oncology research protocol development at Lonavla, near Mumbai between 4<sup>th</sup> and 9<sup>th</sup> March 2018. This workshop was the third in a series of workshops and was modeled on similar workshops held in the United States (the AACR/ASCO Workshop on Methods in Clinical Cancer Research, Vail), Europe (ECCO-AACR-EORTC-ESMO Workshop on Methods in Clinical Cancer Research) and Australia (the ACORD Protocol Development Workshop).

The objective of this workshop was to train researchers in oncology in various aspects of clinical trial design and to help them to develop a research idea into a structured protocol. Participation was open to researchers with training in surgical, medical or radiation oncology or any branch related to oncology with preference being given to early and middle-level researchers working in an academic setting, who demonstrate commitment to continuing research in oncology.

The format of the workshop was a combination of protocol development group sessions, didactic talks, small-group breakaway sessions, office-hours (one-to-one direct consultation with experts) and “homework”. The faculty consisted of international and national experts with extensive experience in oncology research and training in research methodology workshops.

## *The Tata Memorial Centre*

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The Tata Memorial Centre (TMC), comprising the Tata Memorial Hospital (TMH) and the Advanced Centre for Training, Research and Education in Cancer (ACTREC) is the oldest and largest cancer centre in the country. TMC has an annual registration of over 42000 new patients with cancer and caters to patients from all over the country. Based on a “Disease Management Group” concept, evidence based treatment is provided to all patients regardless of their socioeconomic status. Over the years, TMC has been responsible for training a large number of cancer specialists and creating quality human resource for comprehensive cancer management in India. TMC also has a long tradition of high-quality research in basic, translational and clinical research in cancer. Currently, several large practice-changing randomized trials have been completed or are ongoing in breast, oral, esophageal, soft tissue and cervical cancers, addressing important questions in the management of these cancers. TMC is committed to advancing the cause of clinical research in general and cancer research in particular.

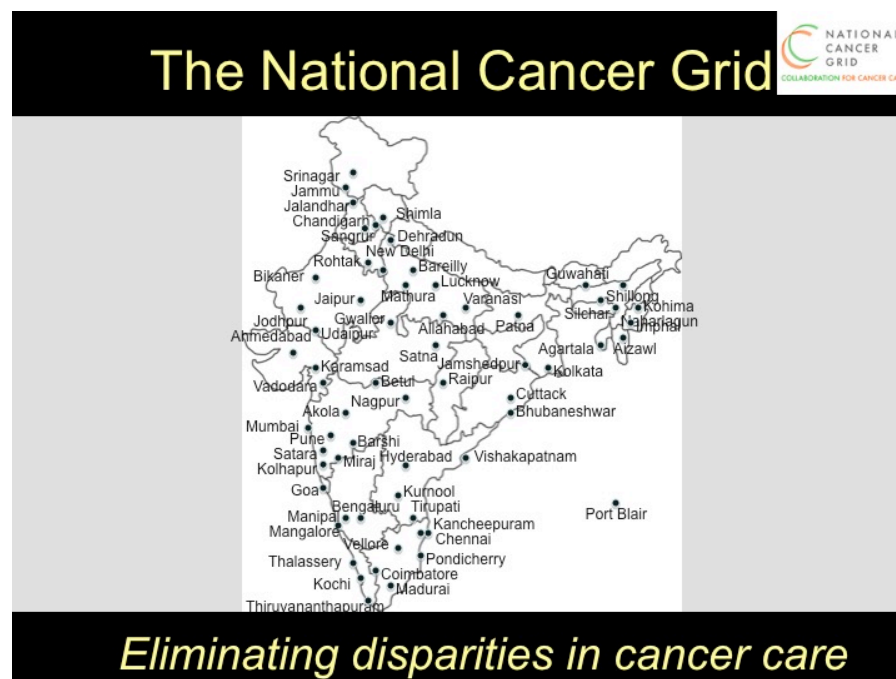


## *The National Cancer Grid of India*

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The National Cancer Grid (NCG) of India is a collaboration of 135 major cancer centres, research institutes, charitable trusts and patient groups, virtually covering the entire length and breadth of the country and is amongst the largest cancer networks in the world. Funded by the Government of India through the Department of Atomic Energy, the NCG has the primary mandate of working towards uniform standards of care across India by adopting evidence-based management guidelines, which are implementable across these centres. It is also intended to facilitate exchange of expertise between centres and to create a ready network of centres for collaborative research in cancer. The NCG is poised to transform the overall spectrum of cancer care, education and research in India and serve as a model for other specialties to emulate. Initiatives of the NCG include adoption of uniform management guidelines for treatment of common cancers in India, institutional peer review, a central “National Cancer Library”, refresher courses in surgical pathology, training in clinical research methods, palliative care, standardization of surgical pathology including immunohistochemistry, radiation oncology quality assurance amongst others.

The best 6 research proposals submitted for the workshop are being considered for funding by the National Cancer Grid, as multi-centric trials.



### *Workshop Advisory Board*

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Rajendra Badwe	Tata Memorial Centre, Mumbai
Marc Buyse	International Drug Development Institute, Belgium and California
Mahesh Parmar	MRC-CTU at University College London
Arnie Purushotham	King's College, London
Ian Tannock	Princess Margaret Cancer Centre, Toronto

### *Workshop Organising Committee*

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Girish Chinnaswamy	Tata Memorial Centre, Mumbai
Durga Gadgil	Tata Memorial Centre, Mumbai
C S Pramesh	Tata Memorial Centre, Mumbai
Priya Ranganathan	Tata Memorial Centre, Mumbai
Manju Sengar	Tata Memorial Centre, Mumbai
Shivakumar Thiagarajan	Tata Memorial Centre, Mumbai

## Workshop faculty

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Ajay Aggarwal	Clinical Oncologist and Senior Visiting Research Fellow at The Institute of Cancer Policy, King's College, London
Christopher Booth	Medical Oncologist and Health Services Researcher at Queen's University, Kingston, Canada
Marc Buyse	Founder, International Drug Development Institute and CluePoints, Belgium and USA
Girish Chinnaswamy	Associate Professor in Paediatric Oncology, Tata Memorial Centre, Mumbai
Chris Frampton	Professor of Biostatistics, University of Otago, New Zealand
Durga Gadgil	Consultant, Tata Memorial Research Administrative Council
Allan Hackshaw	Professor of Epidemiology & Medical Statistics at University College London, and Deputy Director of the Cancer Research UK & UCL Cancer Trials Centre
Avijit Hazra	Professor, Department of Pharmacology, Institute of Postgraduate Medical Education & Research, Kolkata,
Sally Hunsberger	Mathematical Statistician, Biostatistics Research Group, National Institute of Allergy and Infectious Disease, USA
Ruth Langley	Medical Oncologist, Medical Research Council – Clinical Trials Unit at University College London
Marie-Cecile Le Deley	Associate Professor of Biostatistics at University Paris-Sud / Paris-Saclay and Head of the Biostatistics and Methodology Unit of Oscar Lambret Cancer Centre
Indranil Mallick	Senior Consultant, Department of Radiation Oncology, Tata Medical Center, Kolkata
Vikram Mathews	Professor and Head of the Department of Haematology, Christian Medical College, Vellore.
Lisa Meier McShane	Acting Associate Director for the Division of Cancer Treatment and Diagnosis, U.S. National Cancer Institute, National Institutes of Health.
Usha Menon	Head of the Gynaecological Cancer Research Centre, Department of Women's Cancer at University College London and Consultant Gynaecologist at University College Hospital, London.

Mahesh Parmar	Professor of Medical Statistics and Epidemiology and Director of the MRC Clinical Trials Unit at UCL and the Institute of Clinical Trials and Methodology at University College London.
C S Pramesh	Professor, Thoracic Surgery and Co-ordinator, National Cancer Grid of India
Shankar Prinja	Associate Professor of Health Economics at the PGIMER School of Public Health, Chandigarh, India
Arnie Purushotham	Professor of Breast Cancer at King's College London and Director of King's Health Partners Comprehensive Cancer Centre
Preetha Rajaraman	U.S. Health Attaché for India and Regional Representative for South Asia in the Office of Global Affairs/Office of the Secretary, Dept. of Health and Human Services.
Priya Ranganathan	Professor of Anaesthesiology, Tata Memorial Centre, Mumbai
Manju Sengar	Professor, Adult hematolymphoid disease management group, Medical Oncology and Officer-in-charge, Clinical Research Secretariat, Tata Memorial Centre
Sudha Sivaram	Chief of the Public Health, Networks and Research branch at the Center for Global Health at the US National Cancer Institute (NCI).
Jeff Sloan	Professor of Biostatistics and Oncology Professor of Health Science Research Mayo Clinic, Rochester, MN, USA
James Spicer	Professor of Experimental Cancer Medicine, King's College London, and Consultant in Medical Oncology, Guy's and St. Thomas' Hospitals London, UK
Martin Stockler	Professor of Oncology and Clinical Epidemiology, University of Sydney and Oncology Co-Director at the NHMRC Clinical Trials Centre
Shivakumar Thiagarajan	Assistant Professor, Head and Neck surgical oncology, Tata Memorial Centre
Jack Welch	Senior advisor to the US National Cancer Institute's Center for Global Health



## Workshop participants

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1.	Abhishekh B.	JIPMER, Pondichery
2.	Akash Agarwal	Dr RML Institute of Medical Sciences, Lucknow
3.	Ameya Puranik	Tata Memorial Centre, Mumbai
4.	Anupama Rajanbabu	Amrita Institute Of Medical Sciences, Kochi
5.	Aparna Iyer	Tata Memorial Centre, Mumbai
6.	Arunangshu Ghoshal	Tata Memorial Centre, Mumbai
7.	Ashwin Desouza	Tata Memorial Centre, Mumbai
8.	Avipsa Das	Tata Memorial Centre, Mumbai
9.	Badira Cheriyaalinkal Parambil	Tata Memorial Centre, Mumbai
10.	Bharat Chandrakant Nandu	P D Hinduja Hospital , Mumbai
11.	Bonala Sreenivasa Rao	SVIMS Cancer Center, Tirupati
12.	B V Subramanian	SVIMS Cancer Center, Tirupati
13.	Chandana Adhikarla	Tata Memorial Centre, Mumbai
14.	Chandran Nallathambi	Tata Medical Center, Kolkata
15.	Christina Malichewe	Muhimbili University Of Health And Allied Sciences, Tanzania
16.	Deepika Singh Saraf	Indian Council Of Medical Research, New Delhi
17.	Gaurav Prakash	PGIMER, Chandigarh
18.	Geetha Muthath	Malabar Cancer Centre, Thalassery
19.	Hari Sankaran	Amrita Institute Of Medical Sciences, Kochi
20.	Helen Kamei	Dr. B Borooah Cancer Institute (Regional Cancer Center), Guwahati
21.	Jayachandran Pk	Cancer Institute (WIA), Adyar, Chennai
22.	Joseph Del Paggio	University Of Toronto
23.	Kalasekhar V.S	Tata Memorial Centre, Mumbai
24.	Limalemla Jamir	Indian Institute Of Public Health - PHFI
25.	Litika Vermani	Cachar Cancer Hospital, Silchar, Assam
26.	Luisa Bonilla	University Health Network, Toronto
27.	Malu Rafi	Regional Cancer Center, Trivandrum
28.	Meetakshi Gupta	Tata Memorial Centre, Mumbai

29.	Nandini Vallath	Tata Trusts, Mumbai
30.	Niju Pegu	Dr. B Borooah Cancer Institute (Regional Cancer Center), Guwahati
31.	Nikita Mehra	Cancer Institute (WIA), Adayar, Chennai.
32.	Nita Radhakrishnan	SSPH & Post Graduate Teaching Institute, Noida
33.	Pragnya Chigurupati	Tata Memorial Centre, Mumbai
34.	Prasad Tanawade	Kolhapur Cancer Centre
35.	Praveen Ravishankaran	Cachar Cancer Hospital And Research Centre, Silchar, Assam
36.	Priyamvada Gupta	Tata Memorial Centre, Mumbai
37.	Raajit Chanana	Tata Memorial Centre, Mumbai
38.	Revathy Krishnamurthy	Tata Memorial Centre, Mumbai
39.	Richa Ashok Bansal	Tata Memorial Centre, Mumbai
40.	Sajith Babu Thavarool	Malabar Cancer Centre, Thalassery
41.	Sampita Mohanty	Tata Memorial Centre, Mumbai
42.	Sanjeeva Gunasekera	National Cancer Institute, Sri Lanka
43.	Saurabh Sharma	Indian Council Of Medical Research
44.	Sheetal V Kulkarni	Tata Memorial Centre, Mumbai
45.	Smitha C Saldanha	Kidwai Cancer Institute, Bangalore
46.	Sumsum P Sunny	Narayana Hrudayalaya, Bangalore
47.	Sunu Lazar Cyriac	University Health Network, Toronto
48.	Swaratika Majumdar	Tata Memorial Centre, Mumbai
49.	Ujwala Prakash Wakpaijan	Cancer Institute (WIA), Adayar, Chennai
50.	Umesh Jayarajah	Ministry Of Health, Sri Lanka
51.	Vandana Agarwal	Tata Memorial Centre, Mumbai
52.	Vandana Bharadwaj	St Johns National Academy Of Health Sciences, Bangalore
53.	Yasir Jeelani Samoon	Christian Medical College, Vellore
54.	Anju Joseph	Narayana Hrudayalaya, Bangalore
55.	Rama Ranganathan	Cancer Institute (WIA), Adayar, Chennai
56.	Kunal Oswal	Tata Trusts, Mumbai
57.	Rishav Kanodia	Tata Trusts, Mumbai

### *Workshop application process*

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Application for the workshop was through a competitive online application system.

### *Criteria for participation*

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Applicants should have fulfilled the following criteria:

1. Trained or be in-training in any branch of oncology (surgical, medical or radiation) or any specialty allied to oncology
2. Have an interest in clinical research and show commitment to devote time to clinical research in the years following the workshop
3. Be ready with a research concept (idea) which can be developed into a full-fledged research project
4. Be fluent in written and spoken English and have good computer skills.
5. Have support from their Supervisor/ Head of Department and Institution to carry out the proposed research project

### *Application details:*

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Participants were selected through a competitive online application process.

Each application contained the following details:

1. Applicant details
2. Proposed trial description
3. Applicant's statement of purpose
4. Supervisor's statement of support

### *Selection of participants:*

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The workshop committee selected 53 participants from a total of 130 applicants. In addition, 4 participants were given direct entry based on the felt need to augment national capacity in biostatistics and public health amongst the NCG centres. Preference was given to early or mid-career level researchers from academic institutions who demonstrated commitment to continuing research in oncology.

Each application was reviewed by at least two international expert reviewers who rated the applications based on:

1. Quality of research concept
2. Applicant's statement of purpose
3. Supervisor's statement of support
4. Value addition to the applicant's institution

Applicants who were accepted for the workshop had to develop the clinical research concept submitted with their application into a complete clinical trial protocol during the course of the workshop.

## *Workshop fees*

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### **Participants from India:**

Academic institutions: Indian Rupees Ten thousand only

Industry participants: Indian Rupees One lakh fifty thousand only

### **Participants from outside India:**

World Bank Low, lower-middle and upper-middle income economies: Two hundred US dollars only

World Bank High income economies: One thousand US dollars only

The registration fees offset a very small fraction of the actual workshop costs per participant and included the following:

- Shuttle-bus service from a pre-specified pickup point in Mumbai to the workshop venue on 3<sup>rd</sup> March 2018
- Shuttle-bus service from the workshop venue to a pre-specified drop-off point in Mumbai or Mumbai airport on 9<sup>th</sup> March 2018
- Accommodation (twin sharing) in the workshop venue from 4<sup>th</sup> to 9<sup>th</sup> March 2018
- Food and beverages throughout the duration of the workshop
- Wi-fi access throughout the duration of the workshop
- Access to all workshop material

## *Workshop venue*

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The workshop was held at the Leadership Development Academy of Larsen and Toubro, which is located at Lonavla, 100 kilometres away from Mumbai.

Set in the lush green surroundings of the Sahyadri hills, the academy has a fully-equipped training centre with learning halls, library facilities and well-furnished accommodation. It also offers recreational facilities for swimming, volley ball, basketball, tennis, golf, carrom, chess, table tennis and snooker along with a gymnasium, spa, jacuzzi and sauna



## *Workshop sessions*

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### **Pre-workshop webinars**

Starting from January 2018, participants attended a series of webinars on the following topics:

1. Overview of the workshop
2. Research Study designs
3. Elements of a research protocol
4. Research ethics and Informed consent
5. Biostatistics (two sessions)

The webinars were interactive and participants were encouraged to submit their questions and problems for discussion during the seminar

### **During the workshop**

The workshop sessions were carefully formulated to meet the objectives while stimulating interactive discussions and avoiding monotony.

Learning sessions were in the following four formats:

#### **A. Lectures**

These were interactive presentations given by experts on common aspects of the methodology, design and conduct of clinical research proposals. Most of these principles helped participants to complete their research protocols and complement the discussions during the PDGs. These talks were carefully scheduled to aid participants according to the stage of the protocol they were likely to develop on that day.

#### **B. Protocol Development Groups (PDGs)**

The PDGs formed the core activity of the workshop and enable participants to convert their one-page research idea into a full-fledged research protocol ready for IRB / Ethics submission. Workshops participants were divided into groups of eight/nine each, with each of these groups being mentored by 3 to 5 experts on clinical trials / research protocols. Each of the PDG sessions gave participants constructive critiques of their respective projects by the mentors, while applying the knowledge gained from the other sessions.

#### **C. Meet the expert sessions or “Office hours”**

These were direct one-on-one sessions between workshop participants and faculty experts, to clarify specific problems with protocols. Individual assistance with protocols from experts with unique strengths allowed participants to gain from the experience and knowledge of mentors from outside their own PDGs. These sessions could also be used for career guidance and advice on other aspects of research like grant writing, getting research funding etc.

#### **D. Focused group sessions**

Focused sessions were held on specific topics, which were not covered during the common sessions but were important parts of certain research protocols; these also dealt with essential elements to the success of research projects, as well as stimulated discussions around challenges and hurdles for different kinds of protocols. These groups were deliberately kept small to facilitate active interactions between the participants and the faculty.

#### **Topics for focused group discussions**

Methodological aspects of randomized trials
Novel trial designs
Qualitative Research
Screening studies
Patient-reported outcomes and Quality of Life research
Implementation research
Questionnaire-based studies
Biomarker-based research
Health Economics
Random doubts in Statistics

#### ***Special session: selection of the best protocols at the workshop***

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The faculty mentors for each protocol development group selected the best protocol(s) in their group based on novelty, relevance and feasibility. The selected research ideas (six in all) were presented to all faculty and participants, during a one-hour session on 8<sup>th</sup> March 2018.

#### ***Evaluation of participants***

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An online pre and post-test evaluation of participants was conducted to assess the impact of workshop. The test questionnaire included a total of 30 items covering various aspects of clinical research methodology and protocol development. These topics were extensively covered during the workshop in the form of didactic lectures and small group discussions.

For the pre-test evaluation, the average rate of correct responses was 56 percent. This improved to 70 percent for the post-test evaluation.



## Feedback from participants

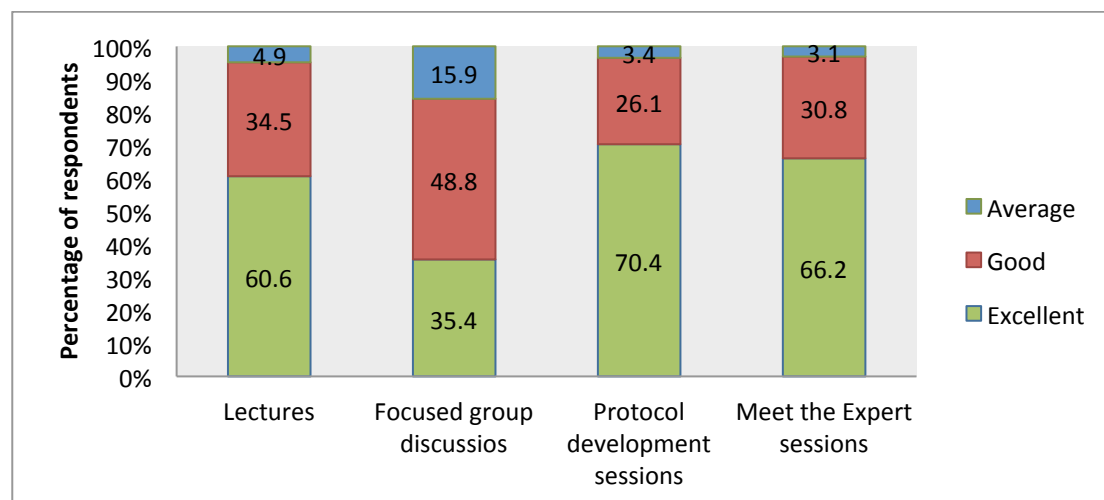
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We conducted a post-workshop online survey to feedback to obtain feedback from the participants

The feedback form included following domains:

1. Quality of the teaching sessions: didactic lectures, focused group discussions, “meet the expert” sessions and protocol development break-out sessions
2. Satisfaction with workshop arrangements (venue, amenities, travel, food and overall arrangements)
3. Other suggestions

### 1. Quality of teaching sessions:



### 2. Satisfaction with workshop arrangements (venue, amenities, travel, food and overall arrangements)

More than 95% of respondents rated the arrangements as excellent

### *What faculty and participants had to say:*

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*“A fantastic workshop, where participants and faculty all have a wonderful time and much is learnt by all.”*

- Chris Frampton

*“A beautifully organized meeting.... A socially and intellectually stimulating week...”*

- James Spicer

*“Thank you for another beautifully-run, intellectually-stimulating and uplifting week”*

- Martin Stockler

*“Congratulations to all the organizing team and faculty for a very successful event. Excellent group of participants again”*

- Allan Hackshaw

*“A memorable experience for a lifetime....”*

- Ujwala Wakpaijan, Cancer Institute, Adayar

*“Had a wonderful time...Very well organized....”*

- Geetha Muttath, Malabar cancer Centre, Thalassery

*“Great workshop, excellent academics.... I learnt so much from my mentors...”*

- B Sreenivasa Rao, SVIMS, Tirupati

*“A very meticulously planned workshop covering all the important topics”*

- Sheetal Kulkarni, Tata Memorial Centre, Mumbai

*“A very engaging and interactive workshop...”*

- Kunal Oswal, Tata Trusts

*“Thanks to the organizing team at CReDO for the workshop and the hospitality...Going back having learnt ‘life skills’ to survive in the research world.... Wonderful experience...”*

- Nita Radhakrishnan. SSPH&PGTI, Noida.

*“The experience has certainly been an enriching one and I have learnt several research concepts anew and unlearnt a few things I thought I knew before. “*

- Smita Saldanha, Kidwai Institute of Oncology, Bangalore

*“It was really a great learning process during that 1 week. More than the science, I think there was lot of practical aspects also that was learned. Things like the long term commitment and dedication for fruitful research, how to critically analyse clinically meaningful data, importance of developing a habit of publication, and importance of team work in research were just a few of the major learning points. Hope I would be able to carry forward what I learned there, to the future also in a positive way. You people have really done a great work, and please make sure it continues in the future, since the impact it can create to science and research in India is immense.”*

- Sunu Lazar Cyriac, Princess Margaret Cancer Centre, Toronto
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## **CReDO 2018 Workshop**

LDA, Lonavla  
March 4 - 9, 2018

### Research ideas discussed at the workshop

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1.	Abhishekh B	Effect of blood transfusions on survival outcome in surgically treated lung cancer patients- A multicentre study
2.	Akash Agarwal	A single arm phase II trial to evaluate the role of adjuvant chemotherapy in resected gallbladder cancers
3.	Ameya Puranik	Phase 2 trial of <sup>177</sup> Lu-DOTA TATE peptide receptor radionuclide therapy (PRRT) for advanced metastatic medullary thyroid cancers
4.	Anupama R	Early Recovery After Surgery (ERAS) Protocol: Does it work in Gynaecologic Malignancy in Indian Setting?
5.	Aparna Iyer	Comprehensive short term supervised respiratory Prehabilitation in lung cancer patients with COPD and its impact on pre-operative symptom score, lung functions, exercise capacity, and post-op morbidity
6.	Arunangshu Ghoshal	A pilot feasibility study of multidisciplinary intervention for cancer cachexia
7.	Ashwin DeSouza	Pressurised Intraperitoneal Aerosol Chemotherapy (PIPAC) in Colorectal Peritoneal Metastasis refractory after 2 lines of chemotherapy: a phase II study.
8.	Avipsa Das	Risk stratified adjuvant radiotherapy for early stage oral cavity cancers - a randomized control trial
9.	Badira Cheriyaalinkal Parambil	Can Early Response Assessment by Positron Emission and Computerized Tomography (PET-CT) allow Omission of Radiotherapy in Indian Children with Classical Hodgkin Lymphoma (cHL) Treated with an Intensified Chemotherapy Regimen
10.	Bharat Nandu	Non-randomised Prospective Cohort Study for Functional and Clinical Outcomes of Shoulder Dysfunction in Patients Undergoing Neck Dissection for Head & Neck Cancers
11.	Bonala Sreenivasa Rao	Clinical outcome of prophylactic Extended field radiotherapy with dose escalation to radiological positive pelvic lymph nodes by intensity modulated radiotherapy (IMRT) in locally advanced carcinoma cervix
12.	B V Subramanian	A comparative analysis of three different dose fractionation regimens of high dose rate brachytherapy in treatment of carcinoma of uterine cervix
13.	Chandana Adhikarla	Building resident physicians' capacity to increase cancer patients' referral to a tobacco cessation program: a study of feasibility and impact of 'Refer to Quit' a novel educational intervention for oncology residents.

14.	Chandran Nallathambi	Dose escalated neoadjuvant radiation concurrent with weekly Paclitaxel and Carboplatin for localised esophageal cancer - A phase 1/2 study (ES-CROSS)
15.	Christina Malichewe	The feasibility and Outcomes of treatment of AML patients with Oral Metronomic Chemotherapy as compared to Low dose Cytarabine in Tanzania.
16.	Deepika Saraf	Oral microbiome and risk of Esophageal squamous cell carcinoma in Indian population.
17.	Gaurav Prakash	Correlation of M1 and M2 tumor related macrophages phenotype and Th1/Th2 immune response with treatment outcome and survival in patients of Hodgkin's lymphoma
18.	Geetha M	Contributory factors and magnitude of Financial burden on head and neck patients- a prospective observational study
19.	Hari Sankaran	Seasonal trends of acute promyelocytic leukemia in India: A population based cancer registry time series
20.	Helen Kamei	Analysis of impact of the time of interval between surgery and chemotherapy in advanced ovarian cancer- a Prospective Study in Regional Cancer Center
21.	Hemantkumar Nemade	Study of factors delaying treatment in head and neck cancer patients in India
22.	Joseph Del Paggio	Awareness of disease nature, extent, and treatment intent in people recently diagnosed with advanced cancer, their support group, and their oncologists: a prospective, longitudinal (single centre, multicenter, international) cohort study
23.	Kalasekhar Vijaya Sekharan	A Phase-2/phase-3 randomized control trial comparing hydroxyurea and L-asparaginase for cytorreduction in pediatric AML patients presenting with hyperleucocytosis
24.	Limalemla Jamir	Role of Diet in Oral and Hypo-pharyngeal cancers in Meghalaya, North East India
25.	Litika Vermani	Elucidating the role of cancer stem cell and epithelial mesenchymal transition genes in the aetiology of colorectal cancers presenting in younger adults.
26.	Luisa Bonilla	Proof of concept phase I trial of angiotensin II inhibitor (Losartan) or Losartan with Leuprorelin as treatment for recurrent adult granulosa cell tumour: The LoLe trial.
27.	Malu Rafi	Randomised study of omega 3 supplement for head and cancer patients on radical chemo-radiotherapy
28.	Meetakshi Gupta	Rapid Palliation in Locally Advanced Cervical Cancer: A Phase III randomized trial
29.	Nandini Vallath	Impact of a mentored pain and policy fellowship in implementing narcotic policy reforms in identified states/union territories and the key learnings for transitions in field practices- an implementation research
30.	Niju Pegu	Quality of Life outcomes following esophagectomy for esophageal carcinoma: A Prospective Observational Study

31.	Nikita Mehra	Efficacy of Rituximab in Ph-negative B-cell ALL with positive MRD Post Induction: An Open-label, Single-arm, Non-randomized Phase 2 Trial
32.	Nita Radhakrishnan	A multicentric phase III randomized trial to evaluate the efficacy of an early response-based treatment algorithm for children diagnosed with Hemophagocytic Lymphohistiocytosis
33.	Pragnya Chigurupati	Study evaluating the dynamics of lymphatic drainage of ipsilateral arm in women with early breast cancer
34.	Prasad Tanawade	Randomized controlled clinical trial to compare radiotherapy dose de-intensification in HPV positive advanced carcinoma of oropharynx with standard dose chemoradiotherapy.
35.	Praveen Ravishankaran	Primary Surgery Vs. Chemoradiation in Locally Advanced Squamous cell carcinoma of the Oral cavity: A non-randomised, prospective Study.
36.	Priyamvada Gupta	Randomized Trial of Concurrent versus Sequential Radiotherapy and Chemotherapy in Adjuvant Treatment of Breast Cancer (CONSTANT)
37.	Raajit Chanana	A randomized study to compare crizotinib with chemotherapy vs crizotinib in ALK mutation positive Non-small cell lung cancer in palliative setting.
38.	Revathy Krishnamurthy	A phase III Randomised Controlled Trial of Standard versus Dose Escalated Adjuvant <b>RADI</b> otherapy in <b>LoCally Advanced BreasT CancEr</b> (ERADICATE trial)
39.	Richa Bansal	Prevalence of Human Papilloma Virus In Spouses of Men diagnosed with oral and oropharyngeal cancer.
40.	Sajith Babu Thavarool	Development and validation of a geriatric assessment tool for Indian patients undergoing curative treatment for cancer
41.	Sampita Mohanty	Randomised Trial comparing Prophylactic versus Reactive Nasogastric Tube Insertion for Enteral Nutrition in Patients with Locally Advanced Head and Neck Carcinoma Treated with Chemo-radiotherapy.
42.	Sanjeeva Gunasekera	A longitudinal observational study to assess Quality of Life (QOL) of primary caregivers of children with Acute Lymphocytic Leukaemia (ALL) at National Cancer Institute, Sri Lanka (NCISL)
43.	Saurabh Sharma	Prognostic biomarkers in Oral Squamous Cell Carcinoma- A Systematic review and Meta-analysis.
44.	Sheetal Kulkarni	Pre-operative nutritional status and its impact on peri and immediate post-operative complication among patients undergoing Radical cystectomy at Tata Memorial Hospital, Parel, Mumbai.
45.	Smitha Carol Saldanha	A prospective phase III randomized study to evaluate the efficacy of olanzapine along with the standard antiemetic regimen for prevention of nausea and vomiting in patients receiving highly emetogenic chemotherapy
46.	Sumsum Sunny	A phase II trial to determine the efficacy of photodynamic therapy (PDT) in the treatment of oral potentially-malignant lesion

47.	Sunu Lazar Cyriac	Maintenance DPX-Survivac in high-risk cervical, vulvar and vaginal cancers, post definitive radiation with or without chemotherapy
48.	Swaratika Majumdar	A prospective observational cohort study to identify the usefulness of risk-based screening strategy for detecting long term complications in adult cancer survivors of leukemia and lymphoma.
49.	Ujwala Prakash	Randomised trial of extra facial hysterectomy versus observation in patients with FIGO stage 1B & 2A in cervical cancer with histopathology of adeno carcinoma after pelvic radiation therapy.
50.	Umesh Jayarajah	Intravenous corticosteroids for the management of acute and long-term side effects of radioactive iodine therapy in patients with thyroid cancer
51.	Vandana Agarwal	Effect of perioperative steroids on outcomes after major hepatic resection
52.	Vandana Bharadwaj	Voriconazole versus liposomal amphotericin B in the prevention of invasive fungal infection in children with acute lymphoblastic leukemia
53.	Yasir Samoon	Effect of addition of bendamustine instead of carmustine in BEAM conditioning in refractory lymphomas: A single arm phase II trial.

## *Acknowledgements*

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We would like to acknowledge the following organizations

### **Funding agencies**

Tata Trusts, Mumbai

Tata Memorial Centre, Mumbai

National Cancer Institute, USA

King's College, London

American Society of Clinical Oncology

Indian Council of Medical Research

### **Collaborating partner**

The Medical Oncology Group of Australia (MOGA) Incorporated through the Australia and Asia Pacific Clinical Oncology Research Development (ACORD) Initiative

### **Endorsing agencies**

Medical Research Council - Clinical Trials Unit at University College London

Cancer Research UK

This conference was organized **under the auspices of** the European Organisation for Research and Treatment of Cancer (EORTC)

Pre-workshop online learning was facilitated by **Project ECHO**.