
Pattatheyil Arun

Senior Consultant
Head and Neck Surgery
Tata Medical Center Cancer
Hospital Rajarhat Newtown
Kolkata. India 700 160 India

Education and Training

Premedical Education

Matriculation(1986) : De Nobili School CMRI, Dhanbad, Jharkhand State, India.

Higher Secondary(1988): De Nobili School CMRI, Dhanbad, Jharkhand State, India.

Medical Education

Bachelor in Medicine and Surgery (MBBS) in February 1994 and completed internship in May 1995 from Government Medical College, Calicut (Kozhikode), India

Postgraduate Medical Training

- Diploma in Otolaryngology from Calicut Medical College- November 1998
- Master of Surgery (M.S) Otolaryngology from Government Medical College, Calicut- June 1999
- Diploma of National Board of Examinations (Otolaryngology) - December 2001.
- Magister Chirurgiae (M.Ch) In Head and Neck Oncology from Amrita Institute of Medical Sciences, India. January 2007.
- Research Fellowship: National Institutes of Health, Bethesda, Maryland, USA. June 2009

**Head and Neck
Oncology
Professional
experience**

July 2010 to present- Senior Consultant in Head and Neck Surgical Oncology at Tata Medical Center, Kolkata:

1, I have been associated with the Tata Medical Center, a 400 bed advanced tertiary referral cancer center serving Eastern India and neighbouring countries of Bangladesh and Bhutan (www.tmckolkata.com) run by the house of Tatas, since its inception in 2011. I established the Head and Neck Surgical Oncology department here equipped with state of the art diagnostics, well equipped operating rooms with HD endoscopes, carbon dioxide lasers and facilities for endoscopic larynx, skull base surgery and transoral robotic surgery. I perform complex head and neck ablative and plastic reconstructive surgery including microvascular tissue transfer and lead a team of 10 head and neck surgeons who perform an average of 500 complex head and neck surgeries a year Treatment decisions are made at multidisciplinary meetings conducted every week. Support services include Clinical Nutrition, Dental Oncology and Prosthetics, specialized head neck nurses, Speech and Swallowing therapy and Audiometry and a Pain and Palliative Care team.

2, Chief of the Head and Neck Translational Research Initiative at the institute and I am a member of the team managing a Biorespository for cancer specimen for future research at the center.

3. Mentor and supervisor students of a two year superspecialty training course in Head and Neck Surgical Oncology. The eleventh batch of students is due to graduate in May 2021.

July 2009 to July 2010: Associate Professor in Head and Neck Surgery and Plastic Reconstructive Surgery, Amrita Institute of Medical Sciences, Kochi, India- Independent admission rights. Supervision of training program for fellows. Co-ordination of basic and translational research in the department

Jan 30, 2007 to June 2009: Research Fellowship at Head and Neck Surgery Branch, NIDCD, National Institutes of Health, Bethesda, Maryland. Research involved studies on cell signaling in head and neck cancer. Trained in cell culture, isolation and analysis of Protein, DNA and RNA from cancer cell lines by Western Blot analysis, luciferase reporter activity, quantitative RT-PCR, gene silencing by si-RNA, flow cytometry for cell cycle analysis, immunohistochemistry, tissue arrays, immunofluorescence in cell lines and human tissue, cell viability and proliferation assays, Luminex ® high throughput bead-based arrays for cytokines and digital pathology (Aperio® Systems).

December 2003 to Jan 2007 :Superspecialty training

- Trained at Department of Head and Neck and Plastic Reconstructive Surgery, Amrita Institute of Medical Sciences, Kochi. Underwent training in major ablative surgery, skull base surgery and microvascular reconstruction for head and neck cancer in a multidisciplinary setting
- Training in basic molecular biology techniques like DNA and RNA extraction, PCR assays etc.

Feb 2003 to December 2003: At Amrita Institute of Medical Sciences and Research Centre, Kochi as Investigator, Pfizer Research Project in addition to outpatient, surgical ,casualty and teaching assignments

Publications

1. **Nuclear NF- κ B p65 is phosphorylated at Serine 276 by protein kinase A and contributes to the malignant phenotype of head and neck cancer.** Arun P, Brown MS, Ehsanian R, Chen Z and Van Waes C. *Clinical Cancer Research* October 2009 15; 5974
2. **'Sure closure'-skin stretching system, our clinical experience.** Subramania KI, Mohit S, Sasidharan PR, Abraham MK, Arun P, Kekatpure V. *Indian Journal of Plastic Surgery.*2005 38(2) 132-137.
3. **Functional reconstruction of near total glossectomy defects using composite gastro omental-dynamic gracilis flaps.** Sharma M, Iyer S, Kuriakose MA, Vijayaraghavan S, Arun P, Sudhir VR, Chatni SS, Sharan R. *J Plast Reconstr Aesthet Surg.* 2008 Aug 27. PMID: 18760683.
4. **Bortezomib-induced apoptosis with limited clinical response is accompanied by inhibition of canonical but not alternative nuclear factor- κ B subunits in head and neck cancer.** Allen C, Saigal K, Nottingham L, Arun P, Chen Z, Van Waes C. *Clin Cancer Res.* 2008 Jul 1;14(13):4175-85. PMID: 18593997
5. **NF- κ B in carcinoma therapy and prevention.** Brown M, Cohen J, Arun P, Chen Z, Van Waes C. *Expert Opin Ther Targets.* 2008 Sep;12(9):1109-22. PMID: 18694378
6. **Attenuated Transforming Growth Factor β Signaling Promotes Nuclear Factor- κ B Activation in Head and Neck Cancer.** Cohen J, Chen Z, Lu SL, Yang XP, Arun P, Ehsanian R, Brown MS, Lu H, Yan B, Diallo O, Wang XJ, Van Waes. C *Cancer Res.* 2009 Apr 15;69(8):3415-24. Epub 2009 Apr 7.
7. **Current and Potential Inflammation Targeted Therapies in Head and Neck Cancer.** Wang F, Arun P. Freidman J, Chen Z, Van Waes. C. *Curr Opin Pharmacol.* 2009 Aug; 9(4):389-95. Epub 2009 Jun 29.
8. **CK2 modulation of NF- κ B, TP53, and the malignant phenotype in head and neck cancer by anti-CK2 oligonucleotides in vitro or in vivo via sub-50-nm nanocapsules.** Brown MS, Diallo O, Ehsanian R, Yang XP, Arun P, Lu H, Korman V, Unger G, Ahmed K. Chen Z, Van Waes C. *Clin Cancer Res.* 2010 Apr 15;16(8):2295-307.

9. **YAP Dysregulation By Delta NP63-mediated Gene Repression Or Phosphorylation Promotes, Proliferation, Survival And Migration In Head And Neck Cancer.** Ehsanian R, Brown M, Lu H, Yang XP, **Arun P**, Yan B, Duggal P, Chuang R, Sudol M, Chen Z, Van Waes C. *Oncogene*. 2010 Nov 18;29 (46):6160-71.

10. **HSP90 Inhibitor SNX5422/2112 Targets the Dysregulated Signal and Transcription Factor Network and Malignant Phenotype of Head and Neck Squamous Cell Carcinoma** Friedman JA, Wise SC, Hu M, Gouveia C, Vander Broek R, Freudlsperger C, Kannabiran VR, **Arun P**, Mitchell JB, Chen Z, Van Waes C.. *Transl Oncol*. 2013 Aug 1;6(4):429-41. doi: 10.1593/tlo.13292. PMID: 23908686; PMCID: PMC3730018.

11. **Morbidity Profile and Functional Outcome of Modified Facial Translocation Approaches for Skull Base Tumors.** Kekatpure, V, Rajan GP, Patel D, Trivedi NP, **Arun P**, Iyer S, Kuriakose MA. *Skull Base* 2011;21:255-260.

12. **Aberrant IKK α and IKK β cooperatively activate NF- κ B and induce EGFR/AP1 signaling to promote survival and migration of head and neck cancer.** Liesl K. Nottingham, Carol H. Yan, Xiping Yang, Han Si, Tsu-Fan Cheng, Clint Allen, **Pattathayil Arun**, David Gius, Lenny Dang, Carter Van Waes, and Zhong Chen (Manuscript submitted for publication)

13. **Phase II 2-arm trial of the proteasome inhibitor, PS-341 (bortezomib) in combination with irinotecan or PS-341 alone followed by the addition of irinotecan at time of progression in patients with locally recurrent or metastatic squamous cell carcinoma of the head and neck (E1304): a trial of the Eastern Cooperative Oncology Group.** Gilbert J, Lee JW, Argiris A, Haigentz M Jr, Feldman LE, Jang M, **Arun P**, Van Waes C, Forastiere AA. *Head Neck*. 2013 Jul;35(7):942-8

14. **Book Chapter-Cancer of the Skin and Ear. Essentials of Head and Neck Cancer** . Alberto Staffieri, Paul Sebastian, Madan Kapre, Bipin T Varghese, Rehan Kazi (Eds). Byword Books. ISBN-13:978-8181930712

15. **Synchronous Bilateral Acinic Cell Carcinoma of the Parotid.** Sourav Guha, Rajdeep Guha, Kapila Manikantan, Rajeev Sharan, Pattathayil Arun, Inranil Mallick, Sanjoy Chatterjee. *Journal of Cancer Science and Therapy*. Vol 4(4):092-093(2012) 14.

16. **Phase II Two Arm Trial of the Proteasome Inhibitor,PS-341(VELCADETM) in Combination with Irinotecan or PS-341 Alone Followed by the Addition of Irinotecan at the Time of Progression in Patients with Locally Recurrent or Metastatic Squamous Cell Carcinoma of the Head and Neck (SCCHN) (E1304): A Trial of the Eastern Cooperative Oncology Group.** Gilbert J, Lee JW, Athanassios A, Haigentz M, Feldman LE, Jang M, **Arun P**, Van Waes C, Forasteire AA. *Head Neck*. 2013 Jul;35(7):942-8

17. **CT Angiographic Study of the Proximal Leg Peroneal Perforator, and its Application in the Design of Chimeric Flaps for Complex Oromandibular Defects.** Gautam Biswas , Sharan Rajeev, Adhish Basu, **Pattatheyl Arun**. April 2014. Journal of Reconstructive Microsurgery 30(S 01)DOI: 10.1055/s-0034-1373919

18. **Infratemporal fossa clearance for oral squamous cancer: Is it time to shift the paradigm ?.** Amarnath Bang, Pattatheyl Arun, Rajeev Sharan, Sanjoy Chatterjee, Bhavesh. May 2014. Journal of Clinical Oncology 32(15_suppl):e17047-e17047 DOI: 10.1200/jco.2014.32.15_suppl.e17047

19. **Risk-factors in pT1-2N0M0 squamous cancers of the oral cavity and the role of adjuvant radiotherapy.** I. Mallick S. Bhaumik, K. Sarkar, **P. Arun**, S. Chatterjee et al. April 2016. Radiotherapy and Oncology 119:S503-S504.DOI: 10.1016/S0167-8140(16)32292-

20. **Therapeutic Neck Dissection in Oral Squamous Cell Carcinoma: Is Selective Neck Dissection the Way Ahead? .** Kapila Manikantan, B.Bang, Rajeev Sharan, **P. Arun** et al . July 2016 Kathmandu University Medical Journal 14(55):221-225

21. **Nasal ala pressure sores following head and neck reconstructive surgery: A retrospective analysis from a tertiary Cancer hospital.** Sonal Rastogi, Tshering Bhutia, Annu Singh, Pattatheyl Arun. January 2017. Indian Journal of Anaesthesia 61(1):74 DOI: 10.4103/0019-5049.198393.

22. Anirban Das, Indranil Mallick. **Pattatheyl Arun**, Arpita Bhattacharyya et al. **Encouraging Outcomes With Manageable Toxicity Using Neoadjuvant Chemotherapy and Intensity-modulated Radiotherapy in Advanced Pediatric Nasopharyngeal Carcinoma: Single-Center Experience From a Developing Country.** February 2017. Journal of Pediatric Hematology/Oncology 39(4):1 DOI: 10.1097/MPH.0000000000000794.

23. S. Chatterjee, I. Mallick, S. Bhaumik, **Pattatheyl Arun**, B. Arun et al. **Intensifying Radiation Treatment in Advanced/Poor Prognosis Laryngeal, Hypopharyngeal (LH), and Oropharyngeal Cancers (OPC) Using PET–CT Based Dose Escalation Strategies—INTELHOPE (Clin Trial.gov NCT02757222).** October 2017. International Journal of Radiation OncologyBiologyPhysics 99(2):E327-E328.DOI: 10.1016/j.ijrobp.2017.06.1384.

24. **Factors Affecting Postoperative Complications After Reconstructive Surgery in Oral Carcinoma Patients: A Prospective Study of 100 Patients.** Prateek Jain, Bhavesh Bang. Kapila Manikantan, **Pattatheyl Arun** et al. March 2018, Indian Journal of Otolaryngology and Head & Neck Surgery DOI: 10.1007/s12070-018-1304-9

25. **Open labelled pilot study of topically applied curcumin versus standard treatment on chronic wound healing.** Kiran Jayaprasad, Janarthanan Ramu, Subramania Iyer, Kamath C R, **Arun Pattatheyl** International Journal of Contemporary Medical Research 2018;5(10):J1-J7

26. **The Role of PET CT in Thyroid Cancer** Ajay .Manickam, Kapila Manikantan, Tsewang Bhutia, **Pattatheyl Arun..** Head Neck Physicians Surg 5251-4740665 131006. July 2018. DOI: 10.4103/jhnps.jhnps_18_17

27. **24. Factors affecting postoperative removal of nasogastric tube and tracheostomy tube in oral cancer: a retrospective analysis of 234 cases.** Prateek Jain, Kapila Manikantan, Dipanwita Roy, Pattatheyl Arun.. Oral Cancer. August 2018. DOI:10.1007/s41548-018-0011-2.

28. **A subtype of cancer-associated fibroblasts with lower expression of alpha-smooth muscle actin suppresses stemness through BMP4 in oral carcinoma.** Ankit Patel, Kavya Vipparthi, Venu Thatikonda, **Pattatheyl Arun**, Sandeep Singh et al..October 2018.Oncogenesis 7(10). DOI:10.1038/s41389-018-0087-x

29. **Tumours of the Upper Aerodigestive Tract .**Phub Tshering , Pattatheyl Arun. Textbook of Plastic Reconstructive and Aesthetic Surgery. Vol 3, Ed-Karoon Agrawal. Thieme. ISBN-13 -978-9388257152.

30. **Novel Technique to Increase the PMMC Flap Pedicle Length by Coplanar Rotation Along the Pedicle Axis** Rajeev Sharan, Anoop Attakkil, Kapila Manikantan, **Pattatheyl Arun..** January 2019. Journal of Maxillofacial and Oral Surgery. DOI: 10.1007/s12663-019-01184-2

31. **Unusual Locoregional Presentation in Papillary Carcinoma of the Thyroid- A Case Series .** Jain PV, Sharan R, Manikantan K, Biswas G, Ray S, **Arun P.** Indian J Cancer [serial online] 2019 [cited 2019 Nov 10];56:325-9.

32. **Clinicopathologic Determinants of Outcome in Pathologic T4a (pT4a) Squamous Cell Carcinoma of the Gingivobuccal Subsite of the Oral Cavity.** Jain, Prateek, Rajeev Sharan, K. Manikantan, Indranil Mallick, S. Chatterjee, Indu Arun and **Pattatheyl Arun** (2019).

33. **Redefining adequate margins in oral squamous cell carcinoma: outcomes from close and positive margins.** Jain, Prateek & Sharan, Rajeev & Manikantan, Kapila & Clark, Gary & Chatterjee,

S. & Mallick, Indranil & Roy, Paromita & Arun, Pattatheyl. (2020). European Archives of Oto-Rhino-Laryngology. 10.1007/s00405-019-05779-w.

34. **Contribution of Weight and Volume of Extirpated Thyroid Gland on Voice Alterations after Total Thyroidectomy in Patients with Papillary Carcinoma of the Thyroid.** Prateek Jain, Dipanwita Roy, Pattatheyl Arun. Journal of Voice. Accepted for Publication.
35. **Fabricating Flaps in the forearm Prior to Tracheal Reconstruction.** Gautam Biswas, Karnav Panchal, Prateek Jain, Kapila Manikantan, Rajeev Sharan, Pattatheyl Arun. Indian Journal of Plastic Surgery. Nov 2020. DOI <https://doi.org/10.1055/s-0040-1721522>
36. **Lymph Node Characteristics and their Prognostic Significance in Oral Squamous Cell Carcinoma.** Indu Arun, Namrata Maity, Shahin Hameed, Prateek Vijay Jain, Kapila Manikantan, Rajeev Sharan, Pattatheyl Arun. Head Neck 2020. Oct 6. doi: 10.1002.hed,26499. Online ahead of print
37. **Functional Landscape of Dysregulated miRNAs in Oral Squamous Cell Carcinoma: Clinical Implications.** Ruma Dey Ghosh, Pattatheyl Arun, Susanta Roychoudhury. Frontiers in Oncology. May 2020. Vol 10. Article 619.
38. **Nodal yield and Topography of Nodal Metastases from Oral Cavity Squamous Cell Carcinoma- An Audit of 1004 cases Undergoing Primary Surgical Resection.** Paromita Roy, Indranil Mallick, Indu Arun, Lateef Zameer Pattatheyl Arun et al. Oral Oncology 113 (2021) 105115. <https://doi.org/10.1016/j.oraloncology.2020.105115>
39. **Two Novel Cell Culture Models of Buccal Mucosal Oral Cancer Patients with no Risk Habits of Tobacco Chewing or Smoking.** Kavya Vipparthi, Ankit Kumar Patel, Subhashis Ghose.....Sandeep Singh et al. Oral Oncology 113 (2021) 105131. <https://doi.org/10.1016/j.oraloncology.2020.105131>
40. **Factors Predicating Contralateral Nodal Spread in Papillary Carcinoma of Thyroid.** Harish Verma, Nija Shah, PrateekJain, Kapila Manikantan, Rajeev Sharan, Pattatheyl Arun. Indian Journal of Cancer. Published 27 Jan 2021.

Completed Research Projects

- Thesis for M.S (ENT): **Analysis of intracranial complications of middle ear infection**
- A multicenter double- blind double dummy comparative trial of Azithromycin SR versus Levofloxacin in the treatment of acute

sinusitis in adults. Conducted by Department of Otolaryngology, Amrita Institute of Medical Sciences during 2003-2004

- Effect of Topically applied turmeric/curcumin on the hair growth when used in conjunction with Variable Pulse Light exposure in mice
- Effect of Inhibition of Nuclear Factor kappa B (NF- κ B) Using Topically Applied Curcumin on Healing of Chronic Wounds
- Prevalence of Human Papilloma Virus in Head and Neck Squamous cell carcinoma. Nationwide multicenter study.

Ongoing Research Projects

- 1. Institute PI- Isolation human oral cancer stem cells and cancer associated fibroblasts from patient's tumors and establishment of its primary culture(STEM cell),** Funded by a Department of Biotechnology, Govt. Of India-Wellcome Trust Grant.
- 2. Institute PI- Determination of genomic signatures associated with treatment failure in oral squamous cell carcinoma of the gingivo-buccal region (OSCC-GB).** Funded by Department of Biotechnology, **Government of India.**
3. PI- Identification of sub clones that drive local lymph node metastasis in oral cancer.
4. PI- Modified Radical Neck Dissection Vs Selective Neck Dissection in management of N+ neck in patient with oral SCC(SENPOS Study). A Randomized Controlled Trial
5. PI- Delay in Presentation and Treatment of Head and Neck Cancer In India: A Multicenter Prospective Analysis of Factors and Impact on Survival (LATENT)
6. PI- Efficacy of Baseline Measures for Predicting Early Recovery of Swallowing after Surgery for Tongue Cancer: A Prospective Study.(WATCA)
7. PI-Effect of weight and volume of the thyroid gland in the alteration of voice parameters after thyroid surgery
8. PI- Determinants of speech outcome following closure in tongue carcinoma- A retrospective study (SPECTOR)

9. PI- Exploratory Phase I/ Phase IIA Study of Intratumorally Injected Tigilanol Tiglate to assess Safety, Tolerability and Efficacy in Patients with Head and Neck squamous Carcinoma

Invited Lectures

1. **Head and Neck Cancer: an Overview:** Invited lecture at the District meeting of Indian Medical Association, Malappuram. May 2005
2. **Current Concepts In The Management Of Carcinoma Of The Tongue:** Invited lecture at the monthly meet of Association of Otolaryngologists of India, Kochi Chapter. India
3. **Early Detection of Oral Cancer and Chemoprevention-** Annual Meet of Kochi Chapter of Indian Dental Association, Kochi. Sep 2009
4. **Unknown Primary in the Head and Neck-** Panelist. Panel Discussion. Kentcon 2009. Kerala Chapter of Association of Otolaryngologists of India. Sep 2009. Trichur
5. **Voice Rehabilitation after Laryngectomy-AHEAD 2010.** Amrita Postgraduate Teaching Program Feb 2010
6. **Premalignant and Malignant Lesions of the Oral Cavity.** Peripheral meet of the Foundation for Head and Neck Surgery, Jalandhar, Punjab. 2011
7. **Prognostic Factors in Head and Neck Cancer.** Panelist. Panel Discussion. Foundation of Head and Neck Oncology Annual Meeting , Oct 5-9,2011 Goa. India
8. **Overview of the Management of Head and Neck Cancer :** Lecture AHEAD- Head and Neck teaching Course, Amrita institute of Medical Sciences, Kochi, India. Feb 2012
9. **Guidelines in the Management of Advanced Cancer of the Larynx:** Lecture, Setting Standards in Head and Neck Care. Kolkata- April 2012.
10. Guidelines in the Management of Medullary Cancers of the Thyroid-AHEAD. Postgraduate Teaching program- Feb 2013
11. **Translational Research in Oral Cancer: Some Points to Ponder-** Current Updates in Research and Education (CURE) . Kolkata March 2013.

12. **Recent Trends in Laryngeal Cancer.** South Zone ENT Conference, Trichy. Tamil Nadu . October 4, 2013.
13. **Moderator, Surgical Workshop ONCOSURG.** Tata Memorial Hospital, Mumbai, India. October 2013
14. **Preventing Complications in Oral Cancer . Keynote Address.** 38th National Meeting of the Association of Maxillofacial Surgeons of India. Bhubaneswar, Orissa . India. November 2013
15. **Workup of a Thyroid Nodule .** Head and Neck and Thyroid Forum. Patel Hospital , Jalandhar. February 2014
16. **Decision Making in Head and Neck Resection.** 12th Indian Society of Reconstructive Microsurgery. Kolkata. March 2014.
17. **Total Thyroidectomy is the Minimum Surgery for Thyroid Cancer.** National Meeting of the Foundation for Head and Neck Oncology, Jaipur, India. Septemebr 2015
18. **Differentiated Thyroid Cancer in the Pediatric Population. Vignettes of a Rarity.** South Zone ENT Conference of the Association of Otolaryngologists of India (TRENDTCON). October 2015.
19. **Debator- Neoadjuvant Chemotherapy in not Useful in T4a/T4b Oral Cancer.** Mumbai. November 2015.
20. **Safe Surgical margins in Head and Neck Cancer.** January 2016. Annual Conference of the Association of Otolaryngologists of India. January 2016.
21. **Minimizing and Managing Complications from Salvage Surgery In Head and Neck Cancer.** White Nights Conference. St.Petersburg. Russia. June, 2016.
22. **Management of the N0 Neck in Oral Cancer.** Foundation for Head and Neck Cancer . East Zone . Kolkata . March 2016.
23. **The Mandible in Oral Cancer.** National Meeting of the Indian Academy of Otolaryngology, Head and Neck Surgery. Kolkata. August 2016.
24. **Moderator- Panel on Midface and Maxilla reconstruction.** Marvels of Modern Reconstruction. Sir. H.N. Reliance Foundation Hospital, Mumbai. 4 February , 2017.
25. **Management of the Neck – Evidence based Management Seminar.** Tata Memorial Hospital , Mumbai 25 February 2017.
26. **Tongue and gingivo-buccal cancers need different staging criteria .** International Academy of Oral Oncology.Bangalore . 20 May, 2017

27. **Moderator, Symposium on Salivary gland cancers**, Annual Meeting Foundation of Head and Neck Oncology, Mumbai, 15 Septemehr 2017.
28. **Arguments for Total Thyroidectomy in Differentiated Thyroid Cancer** . FERCON Kolkata 10 July 2017
29. **Anatomy and Physiology of Swallowing** . Annual Meeeting of Phonosurgeons of India 2018, Kochi. Feb 1, 2018
30. **Surgery is the Modality of Choice in Commissure Sparing T1/2 carcinoma of the glottis**. Larynx, Hypopharynx and Salvage Workshop. Patel Hospital, Jalandhar. March 16-18 ,2018.
31. **Small Primary with Distant Metastases in Medullary Carcinoma of the Thyroid**.Updates in Oncology . Controversies in Head and Neck Cancer. Sir Ganga Ram Hospital, New Delhi. 28 April. 2018
32. **Prophylactic Central Compartment Dissection is not Recommended for Low Risk Differentiated Thyroid Cancer** . Cancon, Bangalore . June 23, 2018.
33. **Moderator, 1st Annual Review on Head and Neck Cancer**, Kolkilaben Dhirubhai Ambani Hospital , Mumbai . 11-12 August, 2018.
34. **Lasers versus radiotherapy for early Laryngeal Cancer: A rational approach beyond debate**. Annual Meeting Foundation of Head and Neck Oncology, Kolkata 27 October 2018.
35. **Current Trends in the Management of Carcinoma of the Larynx**. Dhaka Head and Neck Cancer Conference , Dhaka , Bangladesh. November 6, 2018.
36. **Current Trends in the Management of Laryngeal Cancer** . East Zone Conference of the AOI. November 17, 2018 Imphal, Manipur. India.
37. **Management of Early Oral Cancer**. CIMS Hospital, Vadodara, Gujarat, India January 4, 2019
38. **Decision Making in the Management of Early Laryngeal Cancer**. Kerala ENT Con, Jubilee Mission Hospitals, Kerala. March 23, 2019
39. **National Faculty** , Oral Cancer Mastercourse. HCG Astha Associates. March 30-31, 2019, Ahmedabad.
40. **Debate against the Motion- Translational Research has Failed to Improve Outcomes in Oral Cancer** . Symposium on Advances in the Management of Oral Cancer-Research, Reconstruction and Rehabilitation of Oral Cancer- CANCON- July 27-28 Bangalore.

41. **Panel Member-** Annual Review of Head and Neck Cancers. Kolilaben Dhirubhai Ambani Hospital. August 10-11, 2019 .Mumbai.
42. **Operating Faculty** – Surgical Oncology Masterclass. Tata Medical Center. August 29, 2019
43. **Presenter-** Differences in Clinicopathologic Presentation of Tongue and Gingivobuccal Cancer and Fidelity of AJCC 8 in Predicating Survival in Both Subsites of the Oral Cavity. 7th World Congress of the International Academy of Oral Oncology. August 31 to September 3, 2019 Rome, Italy.
44. **Faculty.** Australia . Asia Pacific Clinical Oncology Research and Development Workshop,. Concept Development Workshop. September 12, 2019 Tata Medical Center, Kolkata.
45. **Faculty-** Congress of International Guild of Robotic and Endoscopic Head and Neck Surgeons. October 4-6, Gurgaon, India.
46. **Moderator- Panel Discussion-** Management of Oral Cancer. Foundation for Head and Neck Oncology Annual Meeting. October 11-13, Chennai. India
47. **Moderator – Panel Discussion.** Meeting on Head and Neck Cancer, Darjeeling Oncology Trust. Siliguri. October 19, West Bengal. India.
48. **Panelist-** Management of Laryngeal Cancer. Annual Meeting of Indian Society of Oncology and Indian Society of Medical and Pediatric Oncology, Novemebr 1-3, Indore, India
49. **Keynote Address(Dr. Satyaban Roy Memorial Oration):** The ENT Surgeon as an Oncologist: Goals, Loopholes and Evolving Roles. Annual Meeting of Association of Otolaryngologists of India (West Bengal). Bardhaman. February 3, 2020.
50. **Faculty- ‘ONCOSURG’** Surgical Workshop, Tata Memorial Hospital, Mu,bai- December 11-13, 2020
51. **Debate- Open Approaches are Preferred for Tumours of the Parapharyngeal Space – For the mothon.** National Meeting of the Foundation of Head and Neck Oncology. Online. December 13, 2020

Supplemental Training

- Temporal bone dissection course , Perintalmanna, Kerala. Feb 1999
- Hands on training programme in Orthognathic Surgery, AIMS Kochi

September 2004

- Medical Informatics Workshop. AIMS, Kochi. Mar 2005
- Amrita Head and Neck Reconstruction Course. Five day hands on workshop on microvascular anastomosis on animals and hands on cadaver free flap harvest. Kochi India
- Australia and Asia Pacific Clinical Oncology Development Workshop (ACORD) , Brisbane, Australia. Sep 3-9, 2006
- Workshop on Stem Cells as Targets for Cancer Prevention and Early Detection. National Cancer Institute, Bethesda, USA. May 14-15, 2007.
- Bridging the Gap Between Preclinical and Clinical Evaluation of Therapeutic Candidates. National Institute of General Medical Sciences, NIH, USA. July 30- Aug 1, 2007.
- State of the Art Endoscopic Skull Base Surgery Workshop. Ohio state University . Wexner Medical Center, Columbus, Ohio. USA. October 20-22, 2017
- Da Vinci Robotic Surgical System Certification Course ,Li Ka Shing Specialist Clinic, Prince of Wales Hospital , Kong Kong. 8 February 2018.

**Academic Positions
Held**

- Editorial Board Member – Journal of Head and Neck Physicians and Surgeons , India
- Deputy Editor- Journal of Craniomaxillofacial Trauma and Reconstruction (JCTR) ,USA
- Examiner, FHNO India Head and Neck Surgical Oncology Fellowships
- Diplomate National Board Postgraduate Scientific Research Committee, Tata Medical Center

Awards and Honors

- **Dr. C.A. Kurian Gold Medal** for best paper at the Annual Conference of AOI, Malabar Branch in May 1997
- **Dr. Gopalakrishna Pillai Memorial Gold Medal** for best paper at the annual conference of Otolaryngologists of Kerala state. Nov 2004
- **FHNO Gold Medal** for the best free paper at the 4th National Conference of the Foundation for Head and Neck Oncology, Hyderabad, India. Jan 2005
- **Dr. P.A. Shah Junior Consultant Award** for best paper at the National meet of ENT Surgeons ,India. January 2006
- **Dr. C. Prabhakaran Gold Medal** for best video presentation. Annual meeting of Otolaryngologists of Kerala State. Sept 2006.
- **Best Research Proposal Award:** National Meeting of Foundation for Head and Neck Oncology In India. Oct 2009, Kochi.

Community Initiatives

- Oral Cancer screening camps at outreach areas of Kollam , Idukki and Alleppey districts 2005-2006
- Presented talk shows on Amrita Television Channel, India on the following themes
 1. Cancer of the larynx- April 2006
 2. Early detection of oral cancer-May 2006