

DR. KANCHAN P. DHOLAM

Date of Birth 13th March, 1961
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ACADEMIC QUALIFICATIONS

- 1982 : B.D.S. Mumbai University
1985 : M.D.S. (Sub: Prosthetics and Crown & Bridge Dentistry)Mumbai University.
2003 : Certificate course in Oral Implantology at KLE Society's Institute of Dental Sciences, Belgaum, Karnataka.
2008 : Fellow of International Congress of Oral Implantology.
2013 : 'ICOI DIPLOMATE' of International Congress of Oral Implantology

ACADEMIC DISTINCTION

- 1980 : Passed First year B.D.S. in 1st class with distinction in subject of General Human Physiology including Biochemistry.
1985 : M.D.S Postgraduate merit scholarship for the year.

EMPLOYMENT DETAILS

Ex Professor and Head of Department of Dental and Prosthetic Surgery
Tata Memorial Hospital
Mumbai, India. (1988 - 2021)
Worked as clinical Assistant and Registrar at KEM Hospital and Nair Hospital Dental college from 1984 -1988

NATURE OF PRESENT WORK:

Experience of 32 years in Maxillofacial prosthetics

Head and neck cancer treatment makes the patient an oral cripple. Eating, drinking, swallowing and speech of the patients are affected after treatment. These patients need urgent intervention of the dental surgeon to restore the oral functions. As a prosthodontist I specialize in the branch of **Maxillofacial Prosthetics and Dental Oncology**.

Treatment and management of patients whose cancer, or cancer therapy has affected their oro-facial structures restores their self-image, and their ability to function and interact socially, thereby improving their health related quality of life.

Dental Oncology:

Head and Neck cancer patients need dental care before, during and following cancer treatment (surgery, radiotherapy, chemotherapy) to prevent dental infection and necrosis of the jaw, along with maxillofacial prosthetic rehabilitation.

Medicine related osteonecrosis of jaw (MRONJ) is incidental in patients receiving certain bone modifying agents in oncology. It causes significant morbidity. This complication is easy to prevent but once developed difficult to treat. Large cohort of patients receiving bisphosphonate and anti-resorptive agents for various malignancies..

Dental protocol for the prevention of MRONJ, includes premedication dental screening, extraction of severely mutilated dentition, restoration of salvageable teeth. Also, patients who are at high risk of developing MRONJ are identified and conservative treatments are offered. If dental extractions are required in these patients, then it is carried out with drug holiday prior to and after extraction.

Patients diagnosed as MRONJ are treated as per guidelines published by the American Association of Oral and Maxillofacial Surgeons (AAOMS). Patients were found to be refractory to conservative management. are treated with surgical intervention and use of platelet derived growth factors.

Maxillofacial Prosthetic Rehabilitation :

Is indicated following head and neck surgical resection namely , maxillectomy, mandibulectomy, glossectomy, loss of nasal, auricular and orbital structures.

Maxillary obturators are fabricated to rehabilitate patients with defects created following resection of maxillary tumours.

Following mandibulectomy, guide plane prostheses are given to prevent deviation of the jaws to the resected side.

In edentulous patients the fabrication of implant retained dentures helps functional and aesthetic rehabilitation.

Patients undergoing total glossectomy or partial glossectomy are offered artificial silicone tongue and palatal augmentation prostheses respectively.

Head and neck cancer patients exposed to radiation have the additional risk of damage to areas not affected by cancer. Positioning devices are therefore provided to protect normal areas of the head and neck that are exposed to radiation. Radiation source carrier devices are given to patients for precise intra oral radiotherapy.

Various facial prosthesis namely eye, ear, nose (adhesive & osseointegrated implant retained), finger, silastic skull, rod finger implants are also provided.

Areas of Specialization:

Maxillofacial Prosthetics

Dental Oncology

Implants supported rehabilitation of oral cancer patients

AWARDS

- 1 ICRETT (International Cancer Research Technology Transfer) Fellowship, International Union Against Cancer (**UICC**), Geneva, at the Memorial Sloan Kettering Cancer Centre, New York, USA, May 1994.
- 2 First Prize, Aesthetic Dentistry MENA (Middle East and North African) awards, 2010. This award is jointly hosted by two organization, EMA (Emirates Medical Association) Dental Association and CAPP (Centre for Advanced Professional Practices) and recognizes excellence in dental practice.

Books Published

- 1) Published, 'Role of Prosthodontist in post surgical rehabilitation of oral cancer patients' S.B. Master, S.S. Ratnam, K.P. Dholam in book titled Head & Neck Cancer. A multidisciplinary approach for its control and cure (A special UICC project).
- 2) Published a book chapter, 'Prosthetic Rehabilitation and Reconstruction .- Dr. K P Dholam, Dr. S V Gurav' in the book "Mastering Cancer Reconstructive Surgery with Free Flaps"; Under the aegis of Tata Memorial Hospital, Pg. 132-145.
- 3) Book publication under process :
Book Name : Under the aegis of Tata Memorial Hospital
Atlas of Dental and Prosthetic Oncology
Editors : Dr. K. P. Dholam, Dr. Sandeep Gurav, Dr. Gurkaranpreet Singh

EXTRA MURAL MATTERS:

Initiated the formation of Association of Dental & Prosthetic Oncology (ADPO- Chairperson)

Selected as editorial board member for section on maxillofacial prosthetics in Journal of Indian Prosthodontic Society.

Member of Council for Prosthodontic Research formed by Indian Prosthodontic Society.

Reviewer: Journal of Indian Prosthodontics Society

AFILLIATION

Member of

- 1) Indian Dental Association.
- 2) Indian Prosthodontic Society
- 3) Indian Society of Implantology

MAXILLOFACIAL CENTRES VISITED

1994 (a) Memorial Sloan Kettering Cancer Centre, New York, USA.

(b)Norman Roe Maxillofacial Prosthetic Department at Queen Mary's Hospital, London.

2005 Visited the Dept. of Advanced Prosthodontics, Biomaterial & Hospital
2006 at UCLA , University of California, USA.

MEETINGS AND CONFERENCES

Actively involved in various meetings, workshops and conferences in different capacities as an organizer, guest speaker and participant.

Organizing secretary for International Society of maxillofacial Research (ISMR outreach program 2009) and TMH – FFOFR maxillofacial conference 2012.

Invited speaker For Indian Dental Association for Oral Cancer workshops.

Special workshops conducted:

- 1) Conducted MFP-ONCO 2019 workshop in collaboration with ‘Association of Dental and Prosthetic Oncology’ from 30th and 31st August 2019 at TMH.
- 2) Invited faculty and conducted ‘Maxillofacial Prosthodontics Workshop’ at King George's Medical University, Lucknow from 7th September to 9th September 2018.
- 3) Conducted ‘Continuing Prosthodontic Education program’- Management of Maxillofacial defects: clinical Protocols’, by Department of Prosthodontics, Crown and Bridge at KM Shah Dental College and Hospital, Sumandeep Vidyapeeth, Baroda from 3rd to 4th January 2018.
- 4) Hosted and conducted a three days workshop from 9th to 11th October 2015 on Maxillofacial Prosthetics with Anaplastologist Ms. Maria Felber (Switzerland) at TMH.
- 5) Mentored pre-convention course titled ‘Prosthetic intervention following mandibulectomy’ at 17th IPS PG Convention, ‘Prosthodontic; Basics to Beyond’ VSPM Dental college and research Centre, Nagpur, 10th -12th July 2015

- 6) TMH co-hosted with International Society of Maxillofacial Rehabilitation (ISMR) 'Conference on Maxillofacial Rehabilitation' at Xi'an, Shaanxi, China, from 15th to 17th September, 2014.

PUBLICATION :

Fifty peer-reviewed, indexed publications in national, international journals and has presented multiple papers at various foras,

Reviewer for high-impact journals such as Journal of Indian Prosthodontic Society and Head & Neck.

Principal investigator of various research projects related to clinical as well as basic research in cancer and has presented multiple papers at various fora.

List of 10 Best Publications

1. Dholam KP, Parkar SP, Dugad JA, Kharade PP, Shinde AA, Gurav SV. Development of a psychosocial perception scale and comparison of psychosocial perception of patients with extra oral defects before and after facial prosthesis. J Prosthet Dent. 2021 May 10;S0022-3913(21)00165-7
2. Dholam KP, Singh GP, Gurav SV, Yadav P. Factors affecting dental rehabilitation following jaw reconstruction with free-fibulargraft in patients with head and neck cancer. J Craniofac Surg. 2018 Nov;29(8):2070-2074.
3. Dholam K, Chouksey G, Dugad J. Impact of Oral Rehabilitation on Patients with Head and Neck Cancer: Study of 100 Patients with Liverpool Oral Rehabilitation Questionnaire and the Oral Health Impact Profile. Indian J Otolaryngol Head Neck Surg. 2020 Sep;72(3):308-312.
4. Dholam KP, Bachher G, Gurav SV. Changes in the quality of life and acoustic speech parameters of patients in various stages of prosthetic rehabilitation with an obturator after maxillectomy. J Prosthet Dent. 2020 Feb;123(2):355-363.

5. Dholam KP, Sharma MR, Gurav SV, Singh GP, Manjrekar N. Dental measures during the COVID-19 pandemic in cancer patients. *Cancer Res Stat Treat* 2020;3:429-33
6. Das S, Dholam K, Gurav S, Bendale K, Ingle A, Mohanty B, Chaudhari P, Bellare JR. Accentuated osseointegration in osteogenic nanofibrous coated titanium implants. *Sci Rep*. 2019 Dec 9;9(1):17638.
7. Dholam KP, Somani P, Prabhu SD et al. Effectiveness of Fluoride Varnish Application as Cariostatic and Desensitizing Agent in Irradiated Head and Neck Cancer Patients. *Int J Dent* 2013(4):824982
8. Dholam KP, Pusalkar HA, Yadav PS, et al. Implant-Retained Dental Rehabilitation in Head and Neck Cancer Patients: An Assessment of Success and Failure. *Implant Den*. 2013;22(6): 604-609.
9. Dholam KP, Gurav SV. Dental implants in irradiated jaws: A literature review. *J Can Res Ther* 2012;8:85-93.
10. Dholam KP, Bachher GK, Yadav PS, et al. Assessment of Quality of Life After Implant-Retained Prosthetically Reconstructed Maxillae and Mandibles Postcancer Treatments. *Implant Den*. 2011;20(1): 85-94.

TEACHING RESPONSIBILITY UNDERTAKEN:

Teaching responsibilities at TMH:

- 1) Introduced HBNI (Homi Bhabha National Institute) Fellowship in Dental and Prosthetic surgery since 2009. Only fellowship in Maxillofacial Prosthetics in India.
Clinical guide for 2–years HBNI fellowship in Dental and Prosthetic Surgery.
- 2) Clinical demonstrator and lecturer for students enrolled in Patient navigation programme - Kevat.

- 3) Organizing and conducting training and informal teaching sessions for observers from dental faculty, surgical and radiation oncology in maxillofacial prosthetics.
- 4) Annual structured teaching programme lectures on indications and applications of dental treatment for cancer patients to the oncology trainee nurses.
- 5) Lectures and conducting table clinic at the annual seminars conducted for students of physiotherapy, occupational therapy, speech therapy, nursing.

- 1) Invited as a speaker at 'Oral cancer workshop' at Indian Dental Association, Prabhadevi, Mumbai on 21st Feb 2016.
- 2) Faculty for panel discussion in "Prosthetics in Mandibular reconstruction – the interplay with surgery" at Pune, Head and Neck Cancer meeting 7th and 8th March 2015.

VI) ANY OTHER EXTRA MURAL MATTERS:

- Initiated the formation of Association of Dental & Prosthetic Oncology (ADPO-Chairperson)
- Selected as editorial board member for section on maxillofacial prosthetics in Journal of Indian Prosthodontic Society.
- Member of Council for Prosthodontic Research formed by Indian Prosthodontic Society.
- Reviewer:
 - a) Journal of Indian Prosthodontics Society.

GRANTS GENERATED:

- **Intra Mural:**
 1. **Osseointegrated Implants**

2. WIHC (Western India Health Consortium):

Collaborative research project between IIT and TMC with seed Funding from TMC.

Project Title: “Development of improved indigenous dental implants: Phase 1: In vivo studies on cell responses/ rapid osseointegration by hydroxy-apatite (HA) coated titanium screws with cell seeded electrospun PCL- gelatin scaffold”

Name of Principal investigators: 1. Dr. Kanchan Dholam, TMC.

2. Prof. Jayesh Bellare, IIT Bombay.

• **Extra Mural:**

1. NOMURA Services India Pvt. Ltd.:

Funding for oral rehabilitation with osseointegrated implants for head and neck cancer patients.

2. Maharashtra State Electricity Transmission Co. Ltd:

Donation under CSR funding through Maheka Mirpuri for Implant retained rehabilitation of cancer patients.