

CURRICULUM VITAE

Name : Dr. Rahul Anand

Date of Birth : September 30, 1990

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ACADEMIC CAREER:

- Completed SSC from Birla Vidya Niketan, New Delhi (2006)
- Completed HSC from Birla Vidya Niketan, New Delhi (2008)
- **2009-2014:** Completed B.D.S. from Dr. D. Y. Patil Dental College and Hospital, Pimpri, Pune, Maharashtra, India
- **2015-2018:** Completed M.D.S. (Oral & Maxillofacial Pathology & Microbiology) from Dr. D. Y. Patil Dental College and Hospital, Pune, Maharashtra, India
- **2019- 2022:** Senior Resident at Post Graduate Institute of Dental Sciences, UHSR, Haryana

- **2021- present:** PhD Scholar at Dr. D. Y. Patil Dental College and Hospital, Pune, Maharashtra, India

Thesis topic (MDS): “Comparative evaluation of Localization of Yes-Associated Protein Molecule in Odontogenic Epithelium of Ameloblastoma and Dental Follicle using Immunohistochemistry”

Guided by: Dr. Sachin C Sarode

Thesis topic (PhD): “Correlation of angiogenesis and vasculogenic mimicry with tumor budding and pattern of invasion in oral squamous cell carcinoma”

Guided by: Dr. Mamatha G S

International and National Publications

1. Sarode SC, Sarode GS, **Anand R**. Right hand digit ratio (2D: 4D) in non-tobacco and/or non-alcohol habit related oral squamous cell carcinoma. Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology. 2014 Jan 1;26(1):89-91.
2. Sarode GS, Sarode SC, **Anand R**, Patil S, Rao D, Augustine D. Psychological intervention in head and neck cancer from molecular standpoint. World J Dent. 2014 Oct;5(4):249-50.
3. Cover page. Ground section of a molar with attached pulp stone stained with Fluorescein dye. Dental Update 2012;39(4)
4. Sarode SC, Sarode GS, Patil S, Mahajan P, **Anand R**, Patil A. Comparative Study of Acrylic Color and India Ink for their use as a surgical margin inks in oral squamous cell carcinoma. World J Dent. 2015 Jan;6:26-30.

5. Sarode GS, Sarode SC, **Anand R**, Waknis P. True pulp stone in compound odontome: an unusual finding. *World J Dent* 2015;6(4):241-242
6. Sarode SC, Sarode GS, **Anand R**, Gawande S. Study of oral psychosomatic disorders in caregivers of oral squamous cell carcinoma patients and their correlation with salivary cortisol levels, salivary dehydroepiandrosterone levels and psychological factors. *Head & Neck*. 37():E68–E69, JUL 2015
7. Sarode GS, Sarode SC, Patil A, **Anand R**, Patil SG, Rao RS, Augustine D. Inflammation and Oral Cancer: An Update Review on Targeted Therapies. *The journal of contemporary dental practice*. 2015 Jul;16(7):595-602.
8. **Anand R**, Sarode GS, Sarode SC. Chronic stress and oral cancer research: Disregarded aspects in animal model studies. *Oral oncology*. 2016 Mar 1;54:e5-6.
9. Sarode GS, Sarode SC, Patil S, **Anand R**. Junk DNA: Prospects for Oral Cancer Research. *The journal of contemporary dental practice*. 2016 Mar 1;17(3):177.
10. Sarode SC, **Anand R**, Sarode GS, Patil S. Somatic Mutation Theory/Tissue Organization Field Theory: Has the Premise been Wrong All along? *World J Dent* 2016;7(4):167-168.
11. Sarode GS, Sarode SC, Gawande S, Patil S, **Anand R**, Patil SG, Patil P. Cellular cannibalism in giant cells of central giant cell granuloma of jaw bones and giant cell tumors of long bones. *Journal of investigative and clinical dentistry*. 2017 May 1;8(2).
12. Sarode SC, Sarode GS, **Anand R**, Patil S, Unadkat H. WhatsApp is an effective tool for obtaining second opinion in oral pathology practice. *Journal of Oral Pathology & Medicine*. 2017 Aug 1;46(7):513-9.

13. Sarode GS, Sarode SC, Choudhary S, Patil S, **Anand R**, Vyas H. Dental records of forensic odontological importance: Maintenance pattern among dental practitioners of Pune city. *Journal of forensic dental sciences*. 2017 Jan;9(1):48.
14. Aidasani GL, Mulay S, Mehta VP, **Anand R**. Dentinal Defects in Endodontically Treated Teeth using NiTi Rotary vs Reciprocating Endodontic Instruments-A Systematic Review. *Journal of Clinical & Diagnostic Research*. 2017 Dec 1;11(12).
15. **Anand R**, Sarode GS, Sarode SC, Reddy M, Unadkat HV, Mushtaq S, Deshmukh R, Choudhary S, Gupta N, Ganjre AP, Patil S. Clinicopathological characteristics of desmoplastic ameloblastoma: A systematic review. *Journal of investigative and clinical dentistry*. 2017 Jul 14.
16. Patil S, Sarode GS, Sarode SC, **Anand R**, Patil S. Focal Adhesion Kinase Expression in Ameloblastoma: A Preliminary Observational Study. *Journal of clinical and diagnostic research: JCDR*. 2017 Jun;11(6):ZC47.
17. Sarode GS, Sarode SC, Maniyar N, **Anand R**, Patil S. Oral cancer databases: a comprehensive review. *Journal of Oral Pathology & Medicine*. 2017 Nov 29.
18. Sarode GS, Sarode SC, Deshmukh R, **Anand R**, Patil S. Tumor Budding in Oral Squamous Cell Carcinoma. *J Contemp Dent Pract* 2017;18(9):743-744.
19. **Anand R**, Sarode SC, Sarode GS, Patil S. Human permanent teeth are divided into two parts at the cemento-enamel junction in the divine golden ratio. *Indian J Dent Res* 2017;28:609-12.
20. **Anand R**, Sarode SC, Sarode GS, Rajpurohit LS, Patil S. Yes-associated protein (YAP) molecule expression in odontogenic epithelium of ameloblastoma. *Clinical oral investigations*. 2019 May;23(5):2389-94.

21. Shelke P, Sarode GS, Sarode SC, **Anand R**, Prajapati G, Patil S. Alveolar soft-part sarcoma of the oral cavity: a review of literature. *Rare tumors*. 2018 Dec;10:2036361318810907.
22. Pandiar D, **Anand R**, Kamboj M. Nuclear atypia in Pindborg tumor: an unexplored phenomenon of a well recognized entity. *Oral Oncol*. 2020;100:104481
23. **Anand R**, Pandiar D, Kamboj M. Financial burden of oral squamous cell carcinoma in India. *Oral Oncol*. 2020 ;103:104528
24. Sarode SC, Maniyar N, Sarode GS, Yerwadekar S, Shetty R, Gadbail AR, Gondivkar S, **Anand R**, Patil S. Transverse Ridge of Premolars and Oblique Ridge of Maxillary Molars are in Divine Golden Ratio. *The Journal of Contemporary Dental Practice*. 2020 May;21(5):487.
25. Sarode G, Sarode S, **Anand R**, Patil S, Jafer M, Baeshen H, Awan KH. Epidemiological aspects of leprosy. *Disease-a-Month*. 2019 Dec 2:100899.
26. Girdhar A, Kamboj M, Devi A, **Anand R**. A ‘mark’ left unaccounted is the ‘mark’ that never occurred- *Dent PosterJ2019*;8(2):6
27. Pandiar D, **Anand R**, Kamboj M, Narwal A, Shameena PM, Devi A. Metastasizing Ameloblastoma: A 10 Year Clinicopathological Review with an Insight Into Pathogenesis. *Head and Neck Pathology*. 2021 Jan 4:1-8.
28. **Anand R**, Narwal A, Pandiar D, Kamboj M, Devi A, Saxena S, Sundaragiri KS, Wadhwan V, Reddy V, George J. Clinicopathological Profile of 80 Cases of Unicystic Ameloblastoma Aided by a Histopathological Comparison Using Modified Philipsen–Reichart Classification and Marx–Stern Classification. *Head and Neck Pathology*. 2021 Feb 27:1-7.

29. Pandiar D, Kumar NS, **Anand R**, Kamboj M, Narwal A, Shameena PM. Does COVID 19 generate a milieu for propagation of mucormycosis? *Medical Hypotheses*. 2021 May 26:110613.
30. Kamboj, M., Pandiar, D., Singh, V. *et al.* Granular Cell Variant of Unicystic Ameloblastoma of Anterior Mandible: a Case Report and an Updated Literature Review. *SN Compr. Clin. Med.* (2021). <https://doi.org/10.1007/s42399-021-00999-w>
31. Sivakumar N, Narwal A, Pandiar D, Devi A, **Anand R**, Bansal D, Kamboj M. Diagnostic utility of p63/p40 in the histologic differentiation of salivary gland tumors: A systematic review. *Oral Surg Oral Med Oral Pathol Oral Radiol*. 2021 Jul 21:S2212-4403(21)00521-6. doi: 10.1016/j.oooo.2021.07.010.
32. Bansal D, Kamboj M, **Anand R**, Pandiar D, Narwal A, Sivakumar N, Devi A. Association of childhood vaccination with pediatric lichen planus: A systematic review. *Int J Dermatol*. 2023 Jan;62(1):22-31. doi: 10.1111/ijd.15974.
33. **Anand R**, Pandiar D, Ramani P, Kamboj M. Field cancerization revisited in purview of quantum entanglement: Delving into the unexplored. *Oral Oncology*. 2022 Jan 10;125:105704-.
34. Chatterjee S, Devi A, Kamboj M, Narwal A, **Anand R**, Bhola R. The road less travelled: Skeletal muscle invasion in oral squamous cell carcinoma. *Journal of Oral Biology and Craniofacial Research*. 2022 Jun 23.
35. Pandiar D, **Anand R**, Kamboj M, Narwal A, Devi A. Papillary synovial metaplasia-like change in oral mucoceles: A retrospective institutional study of 105 cases. *J Oral Maxillofac Pathol* 2022;26:283.

36. Bhola R, Narwal A, Kamboj M, Devi A, **Anand R**, Chatterjee S. Histopathological evaluation of minor salivary gland aberrations in oral squamous cell carcinoma. *J Cancer Res Ther.* 2023 Jan-Mar;19(2):299-303. doi: 10.4103/jcrt.jcrt_1832_21.
37. Girdhar A, Kamboj M, Narwal A, Devi A, **Anand R**, Gupta A. Immunohistochemical correlation of mast cells and angiogenesis in oral lichen planus. *Archives of Oral Biology.* 2022 Jul 13:105509.
38. Sarode GS, **Anand R**, Sharma NK, Sarode SC. Hot and cold tumor: Recent developments and perspectives on oral cancer. *Oral oncology.* 2022 Sep 13;134:106114.
39. **Anand R**, Sarode GS, Sarode SC, Pandiar D. Telehealth for high-risk lesions: Asian perspective. *Journal of Oral Pathology & Medicine.* 2022 Oct 7.
40. **Anand R**, Sarode G, Sarode S. Integrating virtual and light microscopy for oral histology and oral pathology lessons: Indian scenario. *J Dent Sci.* 2023 Jan;18(1):448. doi: 10.1016/j.jds.2022.10.009.
41. **Anand R**, Sarode G, Sarode S. Air quality of dental clinics in developing nations: A disregarded crisis. *J Dent Sci.* 2023 Apr;18(2):916. doi: 10.1016/j.jds.2022.10.017.
42. Sarode GS, Sarode SC, **Anand R**. Letter to the editor of radiotherapy and oncology regarding the paper titled "Impact on xerostomia for nasopharyngeal carcinoma patients treated with superficial parotid lobe-sparing intensity-modulated radiation therapy (SPLS-IMRT): A prospective phase II randomized controlled study." by Huang et al. *Radiother Oncol.* 2022 Dec;177:252. doi: 10.1016/j.radonc.2022.10.020.
43. Sarode SC, Sarode GS, **Anand R**, Sengupta N. Smokeless tobacco control measures: Assumptions that matter. *The Lancet Regional Health-Southeast Asia.* 2023 Feb 1;9.

44. Pandiar D, Krishnan RP, Ramani P, **Anand R**, Sarode S. Oral submucous fibrosis and the malignancy arising from it, could best exemplify the concepts of Cuproplasia and Cuproptosis. *J Stomatol Oral Maxillofac Surg*. 2022 Dec 17;101368. doi: 10.1016/j.jormas.2022.101368.
45. **Anand R**, Sarode G, Sarode S. Dysplasia at surgical margins could act as a putative histological marker for malignization. *Cancer Treat Res Commun*. 2023 Jan 7;34:100680. doi: 10.1016/j.ctarc.2023.100680.
46. Keerthika R, Narwal A, Kamboj M, Devi A, **Anand R**, N Sivakumar, Singh V, Agarwal V, Gupta A. Mucor infection associated with global COVID-19 pandemic - an institutional histopathological study. *Med Oral Patol Oral Cir Bucal*. 2023 Mar 1;28(2):e99-e107. doi: 10.4317/medoral.25130.
47. Sachin C. Sarode, Gargi S Sarode, Nilesh Sharma, **Rahul Anand**, Namrata Sengupta. Fibrosis-associated DDR1 downregulation contributes to a better prognosis in oral squamous cell carcinoma associated with oral submucous fibrosis. *Medical Hypotheses*, 2023;111058, ISSN 0306-9877, <https://doi.org/10.1016/j.mehy.2023.111058>.
48. Mahindre S, Sarode GS, Sengupta N, **Anand R**, Sarode S.C Non-habit-associated squamous cell carcinoma of the tongue in a treated breast cancer patient. (2023) *Oral Surg*. <https://doi.org/10.1111/ors.12806>
49. **Anand R**, Sarode GS, Sengupta N, Sarode SC. TikTok Content Analysis on Smokeless Tobacco and Betel Quid: Perception Versus Reality. *Asian Pac J Cancer Prev*. 2023 Apr 1;24(4):1101-1102. doi: 10.31557/APJCP.2023.24.4.1101.
50. Sarode GS et al. Correlation between oral cancer diagnosis and seasonal patterns: an institutional experience. *Oral Surgery* 2023. DOI: 10.1111/ors.12822

51. Sengupta N, Sarode SC, Sarode GS, **Anand R**. Sex bias phenomenon in oral cancer: an insight. *Future Oncol.* 2023 Jul 5. doi: 10.2217/fon-2023-0225.
52. **Rahul Anand**, Gargi S. Sarode, Nilesh Kumar Sharma, Sachin C. Sarode. Unravelling the complex interplay between the immune system and fibrosis in oral submucous fibrosis: Insights from spatial transcriptomics and metabolomics. *Oral Oncology Reports Volume 7, 2023, 100060* ISSN 2772-9060 <https://doi.org/10.1016/j.oor.2023.100060>.
53. **Rahul Anand**, Gargi Sarode, Urmi Ghone, Swapnagandha Mehendre, Sachin C. Sarode. Novel rejuvenating strategies for irradiated salivary glands. *Oral Oncology Reports Volume 7 2023. 100066* ISSN 2772-9060. <https://doi.org/10.1016/j.oor.2023.100066>.
54. Namrata Sengupta, Gargi S. Sarode, Sachin C. Sarode, **Rahul Anand**. Transposable elements and oral cancer: A perspective. *Oral Oncology Reports Volume 7, 2023, 100065*, ISSN 2772-9060. <https://doi.org/10.1016/j.oor.2023.100065>.
55. **Rahul Anand**, Gargi Sarode, Deepak Pandiar, Namrata Sengupta, Sachin Sarode. Decoding Peto's paradox in carcinogenesis: An insight. *Oral Oncology Reports, Volume 7, 2023, 100070*, ISSN 2772-9060. <https://doi.org/10.1016/j.oor.2023.100070>.
56. Gargi S. Sarode, Sachin C. Sarode, **Rahul Anand**, Namrata Sengupta. Exuberant individual cell keratinization: An unusual presentation in oral squamous cell carcinoma. *Oral Oncology Reports Volume 7, 2023 100068, ISSN 2772-9060.* <https://doi.org/10.1016/j.oor.2023.100068>.
57. Sengupta, N., Sarode, S.C., Sarode, G.S., **Anand R**, Ghone, U. (2023), Perineural invasion: Driver of intra-tumoral heterogeneity in oral cancer. *Oral Surg.* <https://doi.org/10.1111/ors.12833>

58. Keerthika R, Kamboj M, Girdhar A, Narwal A, Devi A, **Anand R**, Juneja M. An exotic pathogenetic mechanism of angiogenesis in oral lichen planus—A systematic review. *J Oral Pathol Med.* 2023; 1-8. doi:10.1111/jop.13472
59. Sarode GS, Sarode SC, **Anand R**. Impact of smokeless tobacco policies. *Lancet Glob Health.* 2023 Sep;11(9):e1337. doi: 10.1016/S2214-109X(23)00309-1.
60. Sarode G, Ghone U, Sengupta N, **Anand R**, Sarode SC. Tumor infiltrating neutrophil microabscess in OSCC: a poorly understood histopathologic prognosticator. *J Stomatol Oral Maxillofac Surg.* 2023 Aug 22:101609. doi: 10.1016/j.jormas.2023.101609.
61. Sengupta N, Sarode SC, Sarode GS, **Anand R**, Mehta V. Force, alternate movements, snap, suction and vibration functions of tongue are altered in oral submucous fibrosis patients. *J Oral Biol Craniofac Res.* 2023 Sep-Oct;13(5):657-661. doi: 10.1016/j.jobcr.2023.08.006.

Other International Contributions

- Sarode G, Ghone U, Sarode S, Sengupta N, **Anand R**. Phospholipases in candidiasis. In *Phospholipases in Physiology and Pathology* 2023 Jan 1 (pp. 93-100). Academic Press
- Rajpurohit LS, Mehta N, Anand R. *Oral Health- A mirror to quality of life*. LAP LAMBERT Academic Publishing, 2014 ISBN: 3659626457
- Advisory Editorial Board member of the esteemed journal, ‘Advances in Modern Oncology Research, PiscoMed Publishing Pte Ltd.

Prestigious Awards & Recognition

- **2023-** Young Researcher Award presented by Institute of Researchers (InRes)
- **2022-** Won first prize and cash reward for Research in Medical Colleges by the Director General Medical Education & Research (DMER), Haryana, Panchkula for work titled 'Does Covid-19 generate a milieu for propagation of Mucormycosis?'
- **2011-** ICMR-STS funded project titled 'Cheiloscopy: comparative study of fluorescein dye and natural dye on latent lip prints.'
- **2010-** ICMR-STS funded project titled 'Differences in Palatal Rugae Patterns in two populations of India, Maharashtrians and Gujaratis.'

Clinical Work Experience

Employed at Dentaland Dental Clinic (Pune) and Implant Centre from August 2015 till January 2018 as an Associate Dental Surgeon.

Conferences/workshops/ CDE programs

- CDE program on 'Understanding Oral Cancer. A holistic approach', Department of Oral Pathology, Dr. D Y. Patil Dental College and Hospital, Pimpri, Pune, Maharashtra, January 2010
- CDE program on 'Forensic Odontology', Department of Oral Pathology, Dr. D Y. Patil Dental College and Hospital, Pimpri, Pune, Maharashtra, April 2011
- CDE program on 'Advances in Management of Dentin Hypersensitivity', Dr. D Y. Patil Dental College and Hospital, Pimpri, Pune, Maharashtra, July 2011

- CDE program on ‘PERIO-Wide Angle 2012’, Sinhgad Dental College and Hospital, Pune, Maharashtra, March 2012
- CDE program on ‘Oral Systemic Health’, Dr. D Y. Patil Dental College and Hospital, Pimpri, Pune, Maharashtra, April 2012
- ICDRO World Congress, ‘Clinical Trends in Implant Esthetics, Guided bone regeneration & Endodontics’, Goa 2012
- CDE program on ‘Research Methodology and Biostatistics’, Dr. D Y. Patil Dental College and Hospital, Pimpri, Pune, Maharashtra, September 2012
- IDENT IDA Pimpri Chinchwad, Pune July 2013.
- Tokayama Dental India Esthetic Dentistry Seminar, Dr. D Y. Patil Dental College and Hospital, Pimpri, Pune, August 2013
- ICDRO World Congress, ‘Trends in Bone Regeneration, Implantology, Endodontics’, Pune 2013
- Scientific Workshop on Oral Oncology, Dr. D Y. Patil Dental College and Hospital, Pimpri, Pune, Maharashtra, September 2013
- Dentistry IDA Pimpri Chinchwad, Hotel Citrus, Pimpri, December 2013
- RACE, Bharti Vidyapeeth Dental College, Pune, March 2014
- CDE program on ‘Manuscript Preparation’, Dr. D Y. Patil Dental College and Hospital, Pimpri, Pune, Maharashtra, April 2014
- CDE program on ‘Pedo Arena’, Dr. D Y. Patil Dental College and Hospital, Pimpri, Pune, Maharashtra, May 2014
- CDE program on ‘Oral pathology- an update’, Dr. D Y. Patil Dental College and Hospital, Pimpri, Pune, Maharashtra, June 2014

- IDENT IDA Pimpri Chinchwad, Hotel citrus, Pimpri, August 2014
- CDE program on ‘Clinico-Patho Philosophy’ of Diagnosis, by Dr. V.K. Hazarey, Department of Oral Pathology and microbiology, Dr. D Y. Patil Dental College and Hospital, Pimpri, Pune, June 2015
- International Symposium on Head and Neck Tumor, MANIPAL UNIVERSITY, MANIPAL, 2015
- IDENT 2017, Pimpri, Pune
- Autocluster conference, 2017 Pune
- XVI National Post Graduate Convention of Indian Association of Oral & Maxillofacial Pathologists, Subharti Dental College, Swami-Vivekanand Subharti University, Meerut, June 2017.
- Organized and attended “INDIA CAN- Indian oral cancer awareness program” held on 25th October 2019 at PGIDS Rohtak
- Attended hands-on training on “Techniques in molecular biology” held on 6th January 2020 at MRU, PGIMS Rohtak
- Attended “Training and sensitisation program for NABH dental standards” held on 11th February 2020 at PGIDS, Rohtak.
- Clinicopathological characteristics of NUT carcinoma- A systematic review of case reports and case series” at 18th National triple O symposium and 4th International oral precancer and cancer congress on 6th to 8th March 2020 held at (MAIDS) New Delhi and won THIRD PRIZE.
- Organized and attended “National Oral Pathologists Day” held on 25th February 2022 at PGIDS, Rohtak.

- Participated in ‘International Conference on Craniofacial Pathology & Biology’ organised by Department of Oral Pathology and Oral Biology, Saveetha Dental College & Hospitals, Chennai on 7th and 8th October 2022.
- Attended CDE program on Clinicopathological Decoys - Verrucopapillary Pathology: Case-based Approach on 24/08/2023 for 04:30 hrs duration organized by Department of Oral and Maxillofacial Pathology and Oral Microbiology, Dr. D.Y. Patil Dental College and Hospital, Dr. D.Y. Patil Vidyapeeth, Pimpri, Pune-18 and credited with 05 CDE points (MSDC/CDE/572/2023-2024 dated 25/07/2023)