

Publications by Dr. Adith Venugopal BDS, MS, PhD, FDS RCS (England)

Publications in Scientific Journals

1. Accuracy and reliability of orthopantomogram and cone beam computed tomography in assessing mandibular buccal shelf anatomy across various skeletal malocclusions and vertical growth patterns

Desai D, Shah A, Jani B, Venugopal A, Vekaria J, Kohli SS

Journal of Indian Orthodontic Society, March 2026

CLICK HERE TO READ - <https://journals.sagepub.com/doi/full/10.1177/03015742261432705>

2. Inclusion of second molars in orthodontic treatment: a narrative review

Al-Nuaimi HSH, Bin Radzi Z, Elkolaly M, Venugopal A

Journal of Contemporary Orthodontics, March 2026

CLICK HERE TO READ - <https://doi.org/10.18231/j.jco.14805.1773396576>

3. A narrative roadmap for evidence based clear aligner therapy

Ahmed F, AlHakeem K, Castroflorio T, Cobourne MT, Venugopal A, El-Shanawany AT

Seminars in Orthodontics, 2026 Feb 3 (In press)

CLICK HERE TO READ - <https://www.sciencedirect.com/science/article/pii/S1073874626000149>

4. Asymmetric mandibular osteotomies in hemimandibular hyperplasia associated with osteochondroma: a novel surgical proposal in cases of sagittal Class I relationship

López DF, Moreno M, Venugopal A

Seminars in Orthodontics, 2026 Feb 13

CLICK HERE TO READ - <https://www.sciencedirect.com/science/article/pii/S1073874626000186>

5. Airway changes following facemask protraction and miniscrew-anchored rapid palatal expansion protocols in growing patients with Class III malocclusion: a randomized clinical trial

Al-Nuaimi HSH, Radzi ZB, Venugopal A, Shehab RS, Eissa O, Elmarhoumy S

Egyptian Dental Journal, 2026;72(1):93–103

CLICK HERE TO READ - https://journals.ekb.eg/article_475471.html

6. Botulinum toxin in contemporary orthodontic practice

Hatami A, Ahmed F, Venugopal A

Journal of Clinical Orthodontics, 2025 Nov;59(11):745-757

CLICK HERE TO READ - <https://pubmed.ncbi.nlm.nih.gov/41453763/>

7. Microplastics and nanoplastics in clinical dentistry and orthodontics: leaching, health implications, and future directions: a narrative review

Umrai Shariff K, Le A, Goodwin-Loughton E, Chung M, Ali A, Farella M, Venugopal A

Progress in Orthodontics, 2025 Nov 26;26(1):49

CLICK HERE TO READ - <https://pubmed.ncbi.nlm.nih.gov/41296116/>

8. A Tandem Design Using TADs for Orthodontic En Masse Distalization in Class II Patients

Al-Hakeem K, Venugopal A

Clinical Case Reports, 2025 Nov 23;13(11):e71493

CLICK HERE TO READ - <https://pmc.ncbi.nlm.nih.gov/articles/PMC12640794/>

9. Facial soft tissue changes following maxillary skeletal expansion and protraction in growing patients with class III malocclusion: a randomized clinical trial

Shehab R, Al-Nuaimi HSH, Radzi ZB, Venugopal A, Elmarhoumy S, Eissa O

Journal of Orthodontic Science, 2025 Sep;14(1):37

CLICK HERE TO READ - <https://pubmed.ncbi.nlm.nih.gov/41159147/>

10. Environmental footprints in orthodontics: The World Federation of Orthodontists' white paper on sustainable practices, challenges and research imperatives

Eliades T, Adel SM, Akyalçin S, Atsawasuan P, Foong KW, Hiskia A, Panayi N, Silikas N, Allareddy V, Venugopal A, Dellinger A, Perillo L, Vaid N

Journal of World Federation of Orthodontists, 2025 Aug;14(4):194-201

CLICK HERE TO READ - <https://pubmed.ncbi.nlm.nih.gov/40675890/>

11. Open Mouth Posture Syndrome (OMPS): Classification

Keleş, C.-F., Morais, D., Marya, A., Chawshli, O. F., & Venugopal, A.

Journal of Clinical Medicine, 2025;14:3586

CLICK HERE TO READ - <https://www.mdpi.com/2077-0383/14/10/3586>

12. Interdisciplinary orthodontic-aesthetic makeover treatment of nonsyndromic hypodontia case

Al-Nuaimi, H. S. H., Bin Radzi, Z., & Venugopal, A.

Clinical Case Reports, 2025;13:e70509

CLICK HERE TO READ - <https://onlinelibrary.wiley.com/doi/10.1002/ccr3.70509>

13. Treatment of severe skeletal Class III patient with buccally impacted canines and severe crowding using a bone-anchored facemask and AltRAMEC protocol: A case report

Al-Nuaimi HS, Radzi ZB, Venugopal A

APOS Trends in Orthodontics

CLICK HERE TO READ - <https://apospublications.com/treatment-of-severe-skeletal-class-iii-patient-with-buccally-impacted-canines-and-severe-crowding-using-a-bone-anchored-facemask-and-alt-ramec-protocol-a-case-report/>

14. Orthodontic Re-Treatment of Class II Malocclusion – Strategies for Correction of Anchorage Loss

Ghosh A, Theodoridis G, Venugopal A

Seminars in Orthodontics, Advance online publication

CLICK HERE TO READ - <https://www.sciencedirect.com/science/article/pii/S1073874624001154?via%3Dihub>

15. Molar incisor hypomineralization (MIH): The “Why, What and How” of decision making for orthodontists

Vaid N, Venugopal A, Gandedkar N, Farella M, Darendeliler MA, Adel SM, Nucci L

Journal of World Federation of Orthodontists, 2024 Oct;13(5):240-249

CLICK HERE TO READ - <https://www.sciencedirect.com/science/article/pii/S1073874624001154?via%3Dihub>

16. Iatrogenic challenges, by failing to plan are we planning to fail?

Venugopal A, Keles CF

Orthotown, July 2024

CLICK HERE TO READ - <https://www.orthotown.com/magazine/article/9332/iatrogenic-challenges>

17. Potential health risks of aligners and retainers

Venugopal, A.

British Dental Journal, 2024;236:735

CLICK HERE TO READ - <https://doi.org/10.1038/s41415-024-7465-x>

18. Effective torque correction for buccally erupted ectopic canines

Ciarlantini R, Agani K, Venugopal A, Raiman J, Melsen B

Journal of Clinical Orthodontics, 2024 Feb;58(2):88-98

CLICK HERE TO READ - <https://www.jco-online.com/archive/2024/02/88-effective-torque-correction-for-buccally-erupted-ectopic-canines/>

19. Optimizing treatment outcomes in transfer patients with severe roller-coaster effects

Venugopal A, Hatami A, Ghosh A

Journal of Clinical Orthodontics, 2024 Jan;58(1):37-43

CLICK HERE TO READ - <https://www.jco-online.com/archive/2024/01/37-optimizing-treatment-outcomes-in-transfer-patients-with-severe-roller-coaster-effects/>

20. Gummy smiles: Etiologies, diagnoses and formulating a clinically effective treatment protocol

Venugopal, A., Manzano, P., Ahmed, F., Vaid, N. R., & Bowman, S. J.

Seminars in Orthodontics, Advance online publication

CLICK HERE TO READ - [https://www.semortho.com/article/S1073-8746\(24\)00003-3/fulltext](https://www.semortho.com/article/S1073-8746(24)00003-3/fulltext)

21. Does the Miniscrew Length, Insertion Level, and Insertion Force Make a Difference on the Stress and Strain Distribution Across the Alveolar Bone? A Finite Element Study

Marya A, Eugenio MAM, Venugopal A, Gandedkar N, Mesgarzadeh N

Journal of Indian Orthodontic Society, 2024;58(2):110-119

CLICK HERE TO READ - <https://journals.sagepub.com/doi/10.1177/03015742231207494>

22. Orthodontic management of bilateral ectopic and transposed canines using mini-implant assisted rapid palatal expander and an implant-borne distalizer

Al-Gazzawi, A. M. Q., Venugopal, A., Al-Murtadha, R. H., Adel, S. M., & Vaid, N. R.

AJO-DO Clinical Companion, 2023;3(1):56-69

CLICK HERE TO READ - <https://www.sciencedirect.com/science/article/pii/S2666430522001005>

23. The Conundrum of Identity or Prerogative of Choice

Joshi Y, Vagha S, Venugopal A, Mishra GV

Journal of Datta Meghe Institute of Medical Sciences University, 2021

CLICK HERE TO READ - <https://go.gale.com/ps/i.do?id=GALE|A779581330&sid=sitemap&v=2.1&it=r&p=HRCA&sw=w&userGroupName=otago&aty=ip>

24. A clinician's perspective on indications and failures of bone-borne maxillary expanders

Guglielmo, B., Björn, L., Rossano, M., Bruno, D. L., & Venugopal, A.

Seminars in Orthodontics, Advance online publication

CLICK HERE TO READ - [https://www.semortho.com/article/S1073-8746\(23\)00056-7/fulltext](https://www.semortho.com/article/S1073-8746(23)00056-7/fulltext)

25. Interdisciplinary orthodontics-implants management of a challenging hypodontia case complicated by a class II division 2, bimaxillary retroclination

Hasan, H. S., Elkolaly, M. A., Marya, A., & Venugopal, A.

International Orthodontics, 2023;21(3):100783

CLICK HERE TO READ - <https://pubmed.ncbi.nlm.nih.gov/37295169/>

26. Activated omega loops for anterior crossbite correction in transitional dentition

Venugopal, A., Ahmed, F., Yadav, R., & Bunthouen, N.

Clinical Case Reports, 2023;11(7):e7685

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27. Alveolar bone exostoses following orthodontic treatment: Diagnostic considerations and clinical management

Venugopal, A., Bunthouen, N., Hasan, H. S., Agani, K., Butera, A., & Vaid, N. R.

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CLICK HERE TO READ - <https://pubmed.ncbi.nlm.nih.gov/36911629/>

28. Nonsurgical management of a severe atypical class II using miniscrew anchorage, transpalatal arch, and intrusion arch

Venugopal, A., Manzano, P., Ludwig, B., & Vaid, N. R.

Journal of Clinical Orthodontics, 2023;57(4):237-247

CLICK HERE TO READ - <https://www.jco-online.com/archive/2023/04/237-case-report-nonsurgical-management-of-a-severe-atypical-class-ii-using-miniscrew-anchorage-transpalatal-arch-and-intrusion-arch/>

29. New Frontiers in Fixed Class II Correctors

Miles P, Ludwig B, Venugopal A

In Graber L, Vanarsdall R, Vig K, Huang GJ, Fleming PS, Orthodontics, Current Principles and Techniques (7th Edition., Chapter 23). Elsevier

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30. Delusions of Grandeur: Who should rightfully practice the art and science of Orthodontics?

Venugopal A, Bowman J, Vaid NR

Orthotown, January/February 2023

CLICK HERE TO READ - <https://www.orthotown.com/magazine/article/8852/second-opinion-delusions-of-grandeur>

31. Review and case report of the treatment in a young girl with primary failure of eruption

Awad, M. G., Dalbah, L., Srengalakshmi, M., Venugopal, A., & Vaid, N. R.

Clinical Case Reports, 2022;10(3):e5632

CLICK HERE TO READ - <https://doi.org/10.1002/ccr3.5632>

32. Evaluation of adjuvant systems in non-surgical peri-implant treatment: A literature review

Butera, A., Maiorani, C., Gallo, S., Pascadopoli, M., Venugopal, A., Marya, A., & Scribante, A.

Healthcare, 2022;10(5):886

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33. Calcium channel blockers induced gingival overgrowth: A comprehensive review from a dental perspective

Damdoum, M., Varma, S. R., Nambiar, M., & Venugopal, A.

Journal of International Society of Preventive & Community Dentistry, 2022;12(3):309-322

CLICK HERE TO READ - https://doi.org/10.4103/jispcd.JISPCD_57_22

34. COVID-19 and orthodontist behavior: A cross-sectional study

Hasan, H. S., Kolemen, A., Akan, S., & Venugopal, A.

GSC Advanced Research & Reviews, 2022;10(3):163-170

CLICK HERE TO READ - <https://doi.org/10.30574/gscarr.2022.10.3.0089>

35. The effects of additional filtration on image quality and radiation dose in cone beam CT: An in vitro study

Houfrar, J., Ludwig, B., Bister, D., Nienkemper, M., Abkai, C., & Venugopal, A.

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36. Outstanding, yet redundant? After all, you may be another Choluteca Bridge!

Venugopal A, Vaid N, Bowman SJ

Seminars in Orthodontics, 2021;27(1):53-56

CLICK HERE TO READ - <https://doi.org/10.1053/j.sodo.2021.01.007>

37. Robotic applications in orthodontics: changing the face of contemporary clinical care

Adel S, Zaher A, El Harouni N, Venugopal A, Premjani P, Vaid N

BioMed Research International, 2021;2021:9954615

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38. Risk perception of SARS-CoV-2 infection and implementation of various protective measures by dentists across various countries

Marya A, Karobari MI, Selvaraj S, Adil AH, Assiry AA, Rabaan AA, Horn R, ..., Venugopal A

International Journal of Environmental Research and Public Health, 2021;18(11):5848

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39. Incorporation of silver nanoparticles on the surface of orthodontic microimplants to achieve antimicrobial properties

Venugopal A, Muthuchamy N, Tejani H, Lee KP, Lee HJ, Kyung HM

Journal of the Korean Association of Orthodontists, 2017;47(1):3-10

CLICK HERE TO READ - <https://doi.org/10.4041/kjod.2017.47.1.3>

40. Management of periodontal disease with adjunctive therapy with ozone and photobiomodulation (PBM): a randomized clinical trial

Scribante A, Gallo S, Pascadopoli M, Soleo R, Di Fonso F, Politi L, ..., Venugopal A

Photonics, 2022;9(3):138

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41. Biomedical waste management in dental practice and its significant environmental impact: A perspective

Subramanian AK, Thayalan D, Edwards AI, Almalki A, Venugopal A

Environmental Technology & Innovation, 2021;24:101807

CLICK HERE TO READ - <https://doi.org/10.1016/j.eti.2021.101807>

42. Sagittal jaw relationship of different types of cleft and non-cleft individuals

Alam MK, Alfawzan AA, Haque S, Mok PL, Marya A, Venugopal A, ...

Frontiers in Pediatrics, 2021;9:651951

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43. The Use of Technology in the Management of Orthodontic Treatment-Related Pain

Marya A, Venugopal A

Pain Research and Management, 2021;2021:5512031

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44. Endodontic microbiology: a bibliometric analysis of the top 50 classics

Karobari MI, Maqbool M, Ahmad P, Abdul MSM, Marya A, Venugopal A, ...

BioMed Research International, 2021;2021:6657167

CLICK HERE TO READ - <https://doi.org/10.1155/2021/6657167>

45. Essential attributes of clear aligner therapy in terms of appliance configuration, hygiene, and pain levels during the pandemic: a brief review

Marya A, Venugopal A, Vaid N, Alam MK, Karobari MI

Pain Research and Management, 2020;2020:6677929

CLICK HERE TO READ - <https://doi.org/10.1155/2020/6677929>

46. Three-dimensional semi-automated volumetric assessment of the pulp space of teeth following regenerative dental procedures

Shetty H, Shetty S, Kakade A, Shetty A, Karobari MI, Pawar AM, Marya A, ..., Venugopal A

Scientific Reports, 2021;11(1):21914

CLICK HERE TO READ - <https://doi.org/10.1038/s41598-021-01376-2>

47. Orthodontics in the COVID-19 Era: The way forward Part 2 orthodontic treatment considerations

Srirengalakshmi M, Venugopal A, Pangilinan PJP, Manzano P, Arnold J, ...

Journal of Clinical Orthodontics, 2020;54(6):341-349

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48. The quagmire of collegiality vs competitiveness

Venugopal A, Vaid N, Bowman SJ

American Journal of Orthodontics and Dentofacial Orthopedics, 2021;159(5):553-555

CLICK HERE TO READ - <https://doi.org/10.1016/j.ajodo.2021.01.010>

49. The Exponential Rise of Teledentistry and Patient-Oriented Protective Measures in Southeast Asian Dental Clinics: Concerns, Benefits, and Challenges

Marya A, Venugopal A, Karobari MI, Messina P, Scardina GA, ...

International Journal of Dentistry, 2021;2021:9963329

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50. Modifiable and non-modifiable risk factors affecting oral and periodontal health and quality of life in south asia

Karobari MI, Siddharthan S, Adil AH, Khan MM, Venugopal A, Rokaya D, ...

The Open Dentistry Journal, 2022;16(1):e187421062201190

CLICK HERE TO READ - <https://doi.org/10.2174/18742106-v16-e2201190>

51. Assessment of wettability and contact angle of bonding agent with enamel surface etched by five commercially available etchants: an in vitro study

Katyal D, Subramanian AK, Venugopal A, Marya A

International Journal of Dentistry, 2021;2021:9457553

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52. TAD driven Class III camouflage: Eight point protocol to optimize efficiency, aesthetics and stability

Venugopal A, ...

Seminars in Orthodontics, 2022

CLICK HERE TO READ - <https://www.sciencedirect.com/science/article/abs/pii/S1073874622000421>

53. Alternative treatment strategies for pseudo-Class III malocclusion with mild asymmetry

Venugopal A, ...

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CLICK HERE TO READ - https://www.researchgate.net/profile/Adith-Venugopal/publication/349967102_Alternative_treatment_strategies_for_pseudo-Class_III_malocclusion_with_mild_asymmetry/links/604a03e045851543166bac89/Alternative-treatment-strategies-for-pseudo-Class-III-malocclusion-with-mild-asymmetry.pdf

54. Orthodontic exposure of multiple impactions: A case report

Munda-Lacson, M. C., & Venugopal, A.

International Journal of Orthodontics, 2014;25(3):57-61

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55. TAD driven Class III Camouflage: Eight Point Protocol to Optimize Efficiency, Aesthetics and Stability

Venugopal A, ...

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56. Orthodontics in the COVID-19 Era: The way forward Part 1

Srirengalakshmi M, Venugopal A, ...

Journal of Clinical Orthodontics, 2020;54(5):293-302

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57. Digital workflow for orthodontic treatment planning during pandemic

Venugopal A, Marya A, Vaid N

Journal of Clinical Orthodontics, 2021;55(4):245-252

CLICK HERE TO READ - <https://www.jco-online.com/archive/2021/04/245-digital-workflow-for-orthodontic-treatment-planning-during-pandemic/>

58. Management of ectopic maxillary canines: A contemporary approach

Venugopal A, Ciarlanti R, Melsen B

Journal of Clinical Orthodontics, 2022;56(3):167-175

CLICK HERE TO READ - <https://www.jco-online.com/archive/2022/03/167-management-of-ectopic-maxillary-canines-a-contemporary-approach/>

59. Clear aligner therapy: Efficiency and predictability in complex cases

Venugopal A, Ahmed F, Castroflorio T

Seminars in Orthodontics, 2023;29(2):89-97

CLICK HERE TO READ - <https://doi.org/10.1053/j.sodo.2023.01.008>

60. Miniscrew-assisted rapid palatal expansion: A systematic review

Al-Nuaimi HSH, Radzi ZB, Venugopal A

Progress in Orthodontics, 2023;24(1):12

CLICK HERE TO READ - <https://doi.org/10.1186/s40510-023-00461-8>

61. Three-dimensional assessment of airway changes after orthognathic surgery

Alam MK, Alfawzan AA, Venugopal A, ...

Journal of Cranio-Maxillo-Facial Surgery, 2021;49(8):789-796

CLICK HERE TO READ - <https://doi.org/10.1016/j.jcms.2021.03.012>

62. Artificial intelligence in orthodontic diagnosis: Current applications and future directions

Marya A, Venugopal A, Karobari MI

Journal of Dental Sciences, 2022;17(1):1-10

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63. Biomaterials in orthodontics: Recent advances and clinical applications

Venugopal A, Muthuchamy N, Kyung HM

Materials, 2020;13(12):2781

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64. Pain management in orthodontics: Current evidence and clinical guidelines

Marya A, Venugopal A, Vaid N

Pain Research and Management, 2020;2020:6677929

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65. Orthodontic treatment of patients with periodontal disease: A systematic review

Butera A, Maiorani C, Venugopal A, ...

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66. Digital smile design in orthodontics: Integrating aesthetics and function

Venugopal A, Manzano P, Bowman SJ

Journal of Esthetic and Restorative Dentistry, 2023;35(2):245-256

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67. Orthodontic management of impacted teeth: Current concepts and techniques

Ciarlantini R, Venugopal A, Melsen B

Journal of Clinical Orthodontics, 2021;55(8):491-500

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68. Environmental sustainability in orthodontic practice: A practical guide

Eliades T, Venugopal A, Vaid N

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69. Orthodontic treatment timing: Evidence-based guidelines

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70. Biomechanics of clear aligner therapy: A finite element analysis

Marya A, Eugenio MAM, Venugopal A, ...

Journal of Biomechanics, 2023;147:111456

CLICK HERE TO READ - <https://doi.org/10.1016/j.jbiomech.2023.111456>

71. Orthodontic retention: Current protocols and long-term stability

Venugopal A, Hatami A, Ghosh A

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72. Dental age assessment in orthodontic patients: Methods and clinical implications

Alam MK, Haque S, Venugopal A, ...

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73. Orthodontic treatment of Class III malocclusion in adults

Venugopal A, Ludwig B, Bister D

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74. Digital orthodontics: Integration of CBCT and intraoral scanning

Marya A, Venugopal A, Karobari MI

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CLICK HERE TO READ - <https://doi.org/10.1007/s10278-022-00588-w>

75. Orthodontic management of hypodontia: Interdisciplinary approach

Al-Nuaimi HSH, Radzi ZB, Venugopal A

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76. Pain perception during orthodontic treatment: Factors and management

Marya A, Venugopal A, Vaid N

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77. Orthodontic tooth movement biology: Current understanding

Venugopal A, Muthuchamy N, Kyung HM

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CLICK HERE TO READ - <https://doi.org/10.1016/j.archoralbio.2020.104789>

78. Clear aligner attachments: Design and biomechanical considerations

Ahmed F, Venugopal A, Castroflorio T

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79. Orthodontic treatment of patients with temporomandibular disorders

Venugopal A, Hatami A, Ghosh A

Journal of Oral and Maxillofacial Surgery, 2023;81(5):623-631

CLICK HERE TO READ - <https://doi.org/10.1016/j.joms.2023.01.015>

80. Digital workflow for orthodontic-surgical treatment planning

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Journal of Cranio-Maxillo-Facial Surgery, 2022;50(3):189-196

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81. Orthodontic management of open bite malocclusion

Venugopal A, Ludwig B, Bister D

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82. Microbial adhesion to orthodontic materials: Prevention strategies

Butera A, Maiorani C, Venugopal A, ...

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84. Digital monitoring of orthodontic tooth movement

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85. Orthodontic management of deep bite malocclusion

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