

Sumit Yadav, BDS, MDS, MBA, PhD



Chair & Henry and Anne Cech Professor of Orthodontics

Department of Growth and Development

Contact Information

Room 2432, UNMC College of Dentistry
4000 East Campus Loop South
Lincoln, NE 68583-0740
402-552-7222
syadav@unmc.edu

Education

- BDS, Dental Surgery, Manipal University, India, 2002
- MDS, Orthodontics, Rajiv Gandhi University of Health Sciences, India, 2006
- PhD, Dental Sciences, Indiana University-Purdue University, 2010
- Certificate, Orthodontics, University of Connecticut School of Dental Medicine, 2013
- MBA, Northwestern Kellogg School of Management, 2022

Research/Professional Interests

- Molecular pathways that regulate temporomandibular joint osteoarthritis, obesity and tooth loss

- Personalized devices for orthodontic tooth movement

Professional Memberships

- American Association of Orthodontists
- American Bone and Mineral Society
- International Association of Dental Research
- Midwestern Society of Orthodontists
- Orthopedic Research Society
- World Federation of Orthodontists

Honors and Awards

From the American Association of Orthodontists

- 2023 - Fred F. Schudy Memorial Biomedical Research Award
- 2021 - Thomas M. Graber Award
- 2019 - B.F. Dewel Memorial Research Award
- 2017 - B.F. Dewel Memorial Research Award
- 2016 - B.F. Dewel Memorial Research Award
- 2015 - Roberts M Ricketts Faculty Development Fellowship Award
- 2012 - Anthony Gianelly Orthodontic Faculty Development Award
- 2010 - Charley Schultz Resident Travel Award

Other Awards

- 2023 - Wayne G. Watson Award, American Journal of Orthodontics and Dentofacial Orthopedics
- 2021 - Beni Solow Award, European Orthodontic Society
- 2010 - Maynird K Hine Award, Indiana University-Purdue University

Selected Publications

Peer-Reviewed

1. Perez-Pino A, **Yadav S**, Upadhyay M, Cardarelli L, Tadinada A. **The accuracy of artificial intelligence-based virtual assistants in responding to routinely asked questions about orthodontics.** *The Angle Orthodontist*. 2023 Jul 1;93(4):427-432. doi: 10.2319/100922-691.1.
2. Seong C, Chen PJ, Kalajzic Z, Mehta S, Sharma A, Nanda R, **Yadav S**, Dutra EH. **Vitamin E enriched diet increases the rate of orthodontic tooth movement.** *American Journal of Orthodontics and Dentofacial Orthopedics*. 2022 May;161(5):687-697.e3. doi: 10.1016/j.ajodo.2020.10.033. Epub 2022 Jan 7.
3. Allareddy V, Rampa S, Rengasamy Venugopalan S, Elnagar MH, Kyeong Lee M, Oubaidin M, **Yadav S**. **Blockchain technology and federated machine learning for collaborative initiatives in orthodontics and craniofacial health.** *Orthodontics & Craniofacial Research*. 2023 Apr 10. doi: 10.1111/ocr.12662.
4. Abu-Arquab S, Ahmida A, Da Cunha Godoy L, Kuo C, Upadhyay M, **Yadav S**. **Insight into clear aligner therapy protocols and preferences among members of the American Association of Orthodontists in the United States and Canada.** *The Angle Orthodontist*. 2023 Jul 1;93(4):417-426. doi: 10.2319/101022-694.1.

5. Liu J, Chen PJ, Mehta S, Dutra EH, **Yadav S**. **Dynamic changes in transcriptome during orthodontic tooth movement.** *Orthodontics & Craniofacial Research*. 2023 Mar 8. doi: 10.1111/ocr.12650.
6. Chen PJ, Wang K, Mehta S, O'Brien MH, Dealy CN, Dutra EH, **Yadav S**. **Anabolic Response of Intermittent Parathyroid Hormone and Alendronate on the Osteochondral Tissue of TMJ.** *Cartilage*. 2022 Dec;13(4):171-183. doi: 10.1177/19476035221109229. Epub 2022 Oct 14.
7. Zhou Y, Xu M, **Yadav S**. Temporomandibular Joint aging and potential therapies. *Aging-US*. 2021 Jul 15;13(14):17955-17956. doi: 10.18632/aging.203332.
8. Wang B, Wang L, Gasek N, Zhou Y, Kim T, Guo C, Jellison E, Haynes L, **Yadav S**, Kuchel G, Tchkonja T, Kirkland J, Xu M. p21-Cre mouse model, a novel and powerful model to study p21-highly-expressing senescent cells in vivo. *Nature Aging*. 2021 Oct;1(10):962-973. doi: 10.1038/s43587-021-00107-6. Epub 2021 Oct 7.
9. Mehta S, Wang D, Upadhyay M, Lagravère MO, **Yadav S**. Long Term Effects on Alveolar Bone with Bone-Anchored and Tooth-Anchored Rapid Palatal Expansion. *Am J Orthod Dentofacial Orthop*. 2022 Apr;161(4):519-528. doi: 10.1016/j.ajodo.2020.10.030. Epub 2022 Mar 7.
10. Mehta S, Chen PJ, Upadhyay M, **Yadav S**. Intermaxillary elastics on skeletal anchorage and MARPE to treat a Class III maxillary retrognathic open bite adolescent: A case report. *International Orthodontist*. 2021 Dec;19(4):707-715. doi: 10.1016/j.ortho.2021.08.001.
11. Mehta S, Gandhi V, Lagravere Vich M, Allareddy V, Tadinada A, **Yadav S**. Long-term assessment of conventional and mini-screw assisted rapid palatal expansion on nasal cavity. *Angle Orthodontist*. 2022 May 1;92(3):315-323. doi: 10.2319/021221-122.1.
12. Mehta S, Chen P, Lagravere Vich M, Tadinada A, Upadhyay M, **Yadav S**. Bone anchored vs Tooth anchored maxillary expansion appliances: Long- term effects on condyle fossa relationship. *Journal of World Federation of Orthodontist*. 2021 Dec;10(4):144-154. doi: 10.1016/j.ejwf.2021.07.001. Epub 2021 Jul 29.
13. Abu Arqub S, Gandhi V, Mehta S, Palo Ledjo, Upadhyay M, **Yadav S**. Survival estimates and risk factors for the failure of palatal and buccal mini-implants. *Angle Orthodontist*. 2021 May 18. Doi:10.2319/090720-1.
14. Allareddy V, Lee MK, Vaid N, **Yadav S**. Use of Neural Network model to examine post-operative infections following orthognathic surgeries in the United States. *Seminar in Orthodontics*. 2021;27:130-137.
15. Zhou Y, Al-Naggar IMA, Chen PJ, Gasek NS, Wang K, Mehta S, Kuchel GA, Xu M, **Yadav S**. Senolytics alleviate the degenerative disorders of temporomandibular joint in old age. *Aging Cell*. 2021 Jun8:e13394.
16. Abu Arqub S, Mehta S, Upadhyay M, **Yadav S**. Does Mini screw assisted rapid palatal expansion (MARPE) have an influence on airway and breathing in middle aged children and adolescent? Systematic review. *International Orthodontist*.
17. Mehta S, Patel D, **Yadav S**. Staging Orthodontic Aligners for Complex Orthodontic Tooth Movement. *Turk J Orthod*.
18. Cohen M, Thacker S, **Yadav S**, Tadinada A. The role of online education platforms and tools in sustaining dental education during the COVID-19 pandemic and beyond. *The Communicator*. 2021. Spring 25-27.
19. Gandhi V, Upadhyay M, Tadinada A, **Yadav S**. Variability associated with mandibular buccal shelf area width and height in the subjects with different growth pattern, gender and growth status. *Am J Orthod Dentofacial Orthop*. 2021 Jan;159(1):59-70. doi: 10.1016/j.ajodo.2019.11.020.
20. O'Brien MH, Dutra EH, Chen PJ, Mehta S, **Yadav S**. BMP2 Is Required for Postnatal Maintenance of Osteochondral Tissues of the TMJ. 2020 Dec 14:1947603520980158.

21. Woods P, Morin A, Chen PJ, Mahonski S, Xiao L, Hurley MH, **Yadav S**, Tannin Schmidt. Automated Indentation Demonstrates Structural Stiffness of Femoral Articular Cartilage and Temporomandibular Joint Mandibular Condylar Cartilage is Altered in Fg2KO Mice. *Cartilage*. Oct 3:1947603520962565.
22. Chen PJ, Dutra EH, Mehta S, O'Brien MH, **Yadav S**. Age-related Changes in the Cartilage of the Temporomandibular Joint. *Geroscience*. 2020;42(3):995-1004.
23. Mehta S, Wang D, Kuo CL, Mu J, Lagravere VM, Allareddy V, Tadinada A, **Yadav S**. Long-term effects of mini-screw-assisted rapid palatal expansion on airway *Angle Orthod*. 2020;10.2319/062520-586.1.
24. Nanda A, Chen PJ, Mehta S, Kalajzic Z, Dutra EH, Allareddy V, Nanda R, **Yadav S**. The Effect of Differential Force System and Minimal Surgical Intervention on Orthodontic Tooth Movement and Root Resorption. *Eur J Orthod*. 2020;cjaa065.
25. Mehta S, Dresner R, Gandhi V, Chen PJ, Allareddy V, Kuo CL, Mu J, **Yadav S**. Effect of positional errors on the accuracy of cervical vertebrae maturation assessment using CBCT and lateral cephalograms. *J World Fed Orthod*. 2020;S2212-4438(20)30060-6. doi:10.1016/j.ejwf.2020.09.006.
26. Alzahrani A, **Yadav S**, Gandhi V, Lurie AG, Tadinada A. Incidental findings of temporomandibular joint osteoarthritis and its variability based on age and sex. *Imaging Sci Dent*. 2020 Sep;50(3):245-253. doi: 5624/isd.2020.50.3.245.
27. Dzingle J, Mehta S, Chen PJ, **Yadav S**. Correction of Unilateral Posterior Crossbite with U-MARPE. *Turk J Orthod* 2020; 33(3):192-6.
28. Gandhi V, Lowney A, Cardarelli L, **Yadav S**, Tadinada A. Three-dimensional evaluation of the mandibular symphyseal region in block graft harvesting for dental implants using cone-beam computed tomography. *Imaging Sci Dent*. 2020 Sep;50(3):217-226. doi: 5624/isd.2020.50.3.217.
29. Betlej A, Gandhi V, Upadhyay M, Allareddy S, Tadinada A, **Yadav S**. Variability of the maxillary suture maturation and density in subjects with different sex and growth status. *Clin Anat*. 2020 May 19. doi: 1002/ca.23621.
30. Gandhi V, O'Brien M, **Yadav S**. High Quality and High Yield RNA Extraction Method from Whole Human Saliva. Biomarkers Insight *Biomark Insights*. 2020 Jun 8;15:1177271920929705.
31. Ramos MJ, **Yadav S**, Gandhi V, Upadhyay M, Tadinada A. Is there a relationship between mandibular cortical bone thickness and orthodontic treatment time. *Angle Orthod*. 2020 Nov 1;90(6):794-800. doi: 2319/012220-42.1
32. Gandhi V, Mehta S, Gauthier M, Chia-Ling K, Nanda R, **Yadav S**. Comparative evaluation of root resorption with clear aligners and preadjusted edgewise appliances: a systematic review and meta-analysis. *Eur J Orthod*. 2020 Feb 20;cjaa013. doi: 10.1093/ejo/cjaa013.
33. Azami N, Chen PJ, Mehta S, O'Brien MH, Dutra EH, Nanda R, **Yadav S**. Raloxifene administration enhances retention in an orthodontic relapse model. *Eur J Orthod*. 2020 Feb 17;cjaa008. doi: 10.1093/ejo/cjaa008.
34. Schneider S, Gandhi V, Upadhyay M, Allareddy V, Tadinada A, **Yadav S**. Variability associated with maxillary and mandibular buccal cortical thickness and density in the subjects with different growth pattern, gender and growth status. *Korean J Orthod*. 2020 Mar;50(2):108-119. doi: 10.4041/kjod.2020.50.2.108. Epub 2020 Mar 24.
35. Ejaz A, Donovan C, Gandhi V, **Yadav S**, Tadinada A. Evaluation of the reliability of the a new low dose CBCT acquisition protocol in diagnosing impacted canines: an ex-vivo imaging study. *Physics of medical imaging*. DOI: 1117/12.2512521.
36. **Yadav S**, Markiewicz M, Allareddy V. Distraction Osteogenesis for Rapid Canine Retraction: Techniques and Outcomes. *Oral Maxillofac Surg Clin North Am*. 2020 Feb;32(1):83-88. doi: 10.1016/j.coms.2019.09.005. Epub 2019 Nov 1.
37. Allareddy V, Caplin J, Markiewicz M, **Yadav S**, Yates D. An Overview of Time Line of Interventions in the Continuum of Cleft Lip and Palate *Oral Maxillofac Surg Clin North Am*. 2020 May;32(2):177-186. doi: 10.1016/j.coms.2020.01.001. Epub 2020 Feb 27.

38. Chen PJ, Chang JH, Dutra EH, Ahmida A, Nanda R, **Yadav S**. The effect of alveolar decortication on orthodontically induced root *Angle Orthod*. 2020 Mar 5. doi: 10.2319/051819-344.1.
39. Chang J, Mehta S, Chen PJ, Upadhyay M, **Yadav S**. Correction of Open Bite with Temporary Anchorage Device-Supported Intrusion. *APOS Trends in Orthodontics*. 2019;9(4):246-251. DOI: 25259/apos_101_2019.
40. Tadinada A, Schneider S, **Yadav S**. Role of Cone Beam Computed Tomography in Contemporary *Seminar in Orthodontics*.
41. Alshetti H, Chen PJ, Upadhyay M, **Yadav S**. Mini-implant assisted enmasse protraction of maxillary posterior *Turk J Orthod* 2019; 32(3):182-9.
42. Chang JH, Michael A, Chen PJ, Dutra EH, Nanda R, Kumbar S, **Yadav S**. Injectable RANKL sustained release formulations to accelerate Orthodontic Tooth Movement. *Eur J Orthod*. 2019 May 31. pii: cjz027. doi: 10.1093/ejo/cjz027.
43. Dutra EH, **Yadav S**. The effects of Botox injection into the masseter in the mandibular condyle are not transient. *Am J Orthod Dentofacial Orthop*. 2019 Aug;156(2):193-202.
44. Dutra EH, O'Brien MH, Chen PJ, **Yadav S**. The anabolic effects of long-term intermittent PTH (1-34) on the mandibular condylar cartilage and the subchondral bone of the TMJ. 2019 Mar22: 1947603519833146.
45. Vishwanath M, Chen PJ, Upadhyay M, **Yadav S**. Orthodontic Management of a Patient with Short Root Anomaly and Impacted *Am J Orthod Dentofacial Orthop*. 2019 Mar;155(3):421-431. doi: 10.1016/j.ajodo.2018.11.009.
46. Chang JH, Chen PJ, Dutra EH, Nanda R, **Yadav S**. The effect of the extent of surgical insult on the Orthodontic Tooth Movement. *Eur J Orthod*. 2019 Feb 27. pii: cjz006. doi: 10.1093/ejo/cjz006.
47. **Yadav S**, Yang Y, Dutra EH, Robinson JL, Wadhwa S. Temporomandibular Joint Disorders in the Elderly and Aging *J Am Geriatr Soc*. 2018 Jul;66(6):1213-1217. doi: 10.1111/jgs.15354. Epub 2018 May 2
48. Clearfield DS, Xin X, **Yadav S**, Rowe DW, Wei M. Osteochondral Differentiation of Fluorescent Multireporter Cells on Zonally-Organized *Tissue Eng Part A*. 2018 Oct 9.10.1089/ten.TEA.2018.0135.
49. **Yadav S**, Sachs E, Vishwanath M, Knecht K, Upadhyay M, Nanda R, Tadinada Gender and growth variation in palatal bone thickness and density for mini-implant placement. *Prog Orthod*. 2018 Nov 5;19(1):43. doi: 10.1186/s40510-018-0241-1.
50. Dutra EH, O'Brien MH, Lima A, Nanda R, **Yadav S**. A morphometric and cellular analysis method for the murine *J Vis Exp*. 2018 Jan 11; (131). doi: 10.3791/55998.
51. Dutra EH, O'Brien MH, Logan C, Tadinada A, Nanda R, **Yadav S**. Loading of the Condylar Cartilage Can Rescue the Effects of Botox on TMJ. *Calcify Tissue Int*. 2018 Jan 11. doi: 10.1007/s00223-017-0385-x.
52. Chhibber A, Agarwal S, **Yadav S**, Upadhyay Which appliance is best for oral hygiene? A randomized clinical trial. *Am J Orthod Dentofacial Orthop*. 2018 Feb;153(2):175-183. doi: 10.1016/j.ajodo.2017.10.009.
53. Dutra EH, Ahmida A, Lima A, Schneider S, Nanda R, **Yadav S**. The effects of alveolar decortications during orthodontic tooth movement in rats. *Eur J Orthod*. 2017 Oct 28. doi: 10.1093/ejo/cjx080.
54. Tadinada A, Marczak A, **Yadav S**. Diagnostic efficacy of a modified low dose acquisition protocol for pre-operative evaluation of mini-implant *Imaging Sci Dent*. 2017 Sep;47(3):141-147.
55. Tadinada A, Dudeja D, Schneider S, Katechia B, **Yadav S**. Imaging findings and differential diagnosis of an unusual case of ameloblastic fibroma. *Massachusetts Dental Journal*.
56. Librizzi Z, Kalajzic Z, Camacho D, **Yadav S**, Nanda R, Uribe F. Comparison of the effects of three surgical techniques on the rate of orthodontic tooth movement in a rat. *Angle Orthod*. 2017 Jun 8. doi: 10.2319/123016-940.1.

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61. Tadinada A, Marczak A, **Yadav S**, Mukherjee PM. Applications of Conebeam Computed Tomography in Orthodontics: A *Turk J Orthod* 2016 Sep; 29: 73-79.
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65. Mahdian M, Saleh HS, Lurie AG, **Yadav S**, Tadinada A. Tissue characterization using optical coherence tomography: a comparative pilot study. *Oral Surg Oral Med Oral Pathol Oral Radiol*. 2016 Jul;122(1):98-doi: 10.1016/j.oooo.2016.03.021.
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71. **Yadav S**, Dobie T, Assefnia A, Kalajzic Z, Gupta H, Nanda R. The Effect of Low Frequency Mechanical Vibration on Orthodontic Tooth *Am J Orthod Dentofacial Orthop*. 2015 Sep;148(3):440-9. doi: 10.1016/j.ajodo.2015.03.031.
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74. **Yadav S**, Palo L, Mahdian M, Upadhyay M, Tadinada Evaluation of the Diagnostic accuracy of two CBCT protocols in detecting TMJ arthritic changes. *Am J Orthod Dentofacial Orthop*. 2015 Mar;147(3):339-44.

75. Agarwal S, Shah N, **Yadav S**, Nanda Mandibular arch retraction with retromolar skeletal anchorage in a Class III open-bite patient. *J Clin Orthod*. 2014 Dec;48(12):775-82.
76. **Yadav S**, Upadhyay M, Roberts WE. Biomechanical and histomorphometric properties of four different mini implant *Eur J Orthod*. 2015 Dec;37(6):627-35. doi: 10.1093/ejo/cju097.
77. Tadinada A, Mahdian M, Vishawanath M, Upadhyay M, **Yadav S**. Evaluation of alveolar bone dimensions in unilaterally palatally impacted canine: A cone beam computed tomographic analyses. *Eur J Orthod*. 2015 Dec;37(6):596-602. doi: 10.1093/ejo/cju098.
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79. Upadhyay M, **Yadav S**, Nanda Biomechanics of incisor retraction with mini-implant anchorage. *J Orthod*. 2014 Sep;41 Suppl 1:S15-23. doi: 10.1179/1465313314Y.0000000114.
80. **Yadav S**, Upadhyay M, Uribe F, Nanda Mechanics for impacted and ectopically erupted maxillary canines. *J Clin Orthod*. 2013 May;47(5):305-13.
81. **Yadav S**, Upadhyay M, Uribe F, Nanda R . Palatally impacted maxillary canine with congenitally missing lateral incisors and midline *Am J Orthod Dentofacial Orthop*. 2013 Jul;144(1):141-6.
82. Upadhyay S, Nagaraj K, **Yadav S**. Treatment of high angle Class II malocclusion with severe crowding and enlarged *Aust Orthod*. 2013 May;29(1):105-14.
83. Agarwal S, **Yadav S**, Shah NV, Valiathan A, Uribe F, Nanda Correction of bilateral impacted mandibular canine using lip bumper for anchorage reinforcement. *Am J Orthod Dentofacial Orthop*. 2013 Mar;143(3):393- 403.
84. Allareddy VM Ackerman MB, Venugopalan SR, **Yadav S**, Nanda VS, Nanda R. Longitudinal trends in discharge patterns of orthognathic surgeries: is there a regionalization of procedures in teaching hospital. *Oral Surg Oral Med Oral Pathol Oral Radiol*. 2013 May;115(5):583-8. doi: 10.1016/j.o000.2012.09.003.
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86. **Yadav S**, Upadhyay M, Liu SS, Roberts WE, Nanda Microdamage of the cortical bone during mini-implant insertion with self-drilling and self- tapping techniques. *Am J Orthod Dentofacial Orthop*. 2012 May;141(5):538-46.
87. Upadhyay M, **Yadav S** Nagaraj K, U Flavio, Nanda R. Mini-Implants Vs fixed functional appliances for treatment if young adult Class II female patients: A prospective clinical *Angle Orthod*. 2012 Mar;82(2):294-Epub 2011 Aug 26.
88. **Yadav S**, Chen J, Upadhyay M, Feifei J, Roberts Comparison of the force systems of three appliances on palatally impacted canine. *Am J Orthod Dentofacial Orthop*. 2011 Feb;139(2):206-13
89. Durgekar S, Nagaraj K, Upadhyay M, **Yadav S**. A simple technique for bonding lingual retainers. *J Clin Orthod*. 2010 Jul;44(7):445-6.
90. Upadhyay M, **Yadav S**, Nanda R . Vertical Dimension control during Enmasse retraction with Mini Implant anchorage. *Am J Orthod Dentofacial Orthop*. 2010 Jul;138(1):96-108.
91. **Yadav S**, Upadhyay M, Borges GA, Roberts WE . Influence of ceramic surface treatments on micro shear bond strength of composite resin. *Angle Orthodontist* 2010 Jul;80(4):577-82.
92. Nagaraj K, Upadhyay M, **Yadav S** (2009). Impacted maxillary central incisor, canine and second molar with two supernumerary teeth and one 'odontoma'. *Am J Orthod Dentofacial Orthop*. 2009 Mar;135(3):390-9.
93. Upadhyay M, **Yadav S**, Nagaraj K, Nanda Dentoskeletal and Soft Tissue effects of Mini-Implants in Class II Division I patients. *Angle Orthod*. 2009 Mar;79(2):240-7.
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95. Upadhyay M, **Yadav S**, Patil S (2008). Mini implant anchorage for 'en masse' retraction of maxillary Anterior teeth: a clinical cephalometric study. *Am J Orthod Dentofacial Orthop*. 2008 Dec;134(6):803-10.
96. Nagaraj K, Upadhyay M, **Yadav S**. Titanium screw anchorage for protraction of mandibular second molars into first molar extraction *Am J Orthod Dentofacial Orthop*. 2008 Oct;134(4):583-91.
97. **Yadav S**, Upadhyay M, Patil S, Keluskar Rare earth magnets for bonding lingual retainers. *Journal of Clinical Orthodontics* 2008 Jun;42(6):349-50.
98. Upadhyay M, **Yadav S**, Nagaraj K, Patil S (2008). Treatment effects of Mini implant for 'en masse' retraction of anterior teeth in Bialveolar dental protrusion cases: A randomized controlled *Am J Orthod Dentofacial Orthop*. 2008 Jul;134(1):18-29.e1.
99. Nagaraj K, Upadhyay M, **Yadav S** (2008). Mini implant anchorage for a skeletal Class II malocclusion with missing mandibular A case report. *World J Orthod*. 2008 Summer;9(2):155-66.
100. Upadhyay M, Nagaraj K, **Yadav S**, Saxena Mini-Implants for En-masse intrusion of maxillary anterior teeth in a severe Class II div I case. *J Orthod*. 2008 Jun;35(2):79-89.

Books

1. Temporary Anchorage Devices in Orthodontics: Elsevier; Editors- Ravindra Nanda, Flavio Uribe, **Sumit Yadav**.

Book Chapters & Non-Peer Reviewed Articles

1. Nanda R, Uribe F, **Yadav S**. Accelerated Orthodontic Tooth Orthodontics, Current Principles and Techniques. Editors: Graber, Vanarsdall, Huang.
2. Upadhyay M, **Yadav S**, Nanda R. Mechanics of Class II Malocclusion Compensation With Mini-Implant Supported Anchorage. Skeletal anchorage in orthodontic treatment of Class II malocclusion. Contemporary applications of orthodontic implants, miniscrew implants and mini plates Ed: Papadopoulos MA, ed, Elsevier.
3. **Yadav S**, Upadhyay M, Nanda R. Mechanics for impacted and ectopically erupted Esthetic and Biomechanics in Orthodontics Ed: Nanda R, ed, Elsevier.
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