

Vivek Aggarwal

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Department of Conservative Dentistry and Endodontics,

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Professional Qualifications

Master of Dental Surgery (Conservative Dentistry & Endodontics) from **All India Institute of Medical Sciences**, New Delhi 2005-2007.

Dubai Health Authority (**DHA**) certified Specialist Dentist Endodontics: Ref
DHA/LS/3112015/523294

Post Graduate certificate course in Patent Cooperation Treaty from the world Intellectual
Property Organization (WIPO)

Certificate course in primer in Patent Filing

Presently working as Professor in the Department of Conservative Dentistry &
Endodontics, Faculty of Dentistry, Jamia Millia Islamia, New Delhi.

Work Experience and Academic Appointments

Professor: Department of Conservative Dentistry & Endodontics, Jamia Millia Islamia, New Delhi. INDIA (2017-till date)

Job description: Clinical teaching for intern and externs. Setting up the department for Undergraduate Studies, deciding the curriculum in addition to teaching both didactic and clinical concepts & pre-clinical or laboratory exercises.

Associate/Asst Professor: Department of Conservative Dentistry & Endodontics, Jamia Millia Islamia, New Delhi. INDIA (2010-2017)

Job description: Administrative work including: setting up the department for Undergraduate Studies, deciding the curriculum in addition to teaching both didactic and clinical concepts & pre-clinical or laboratory exercises.

Senior Resident: Department of Dental Surgery, Safdarjung Hospital and Department of Conservative Dentistry & Endodontics, All India Institute of Medical Science. New Delhi. INDIA (2008-2010)

Job description: Administrative and teaching work which included: Setting up the department for under graduate studies. Deciding the curriculum in addition to teaching both didactic and clinical concepts; pre-clinical or laboratory exercises and providing patient care. Providing proper guidance to postgraduate students in presenting research papers at scientific meetings and conferences.

Reviewer and editorial board positions

International Endodontic Journal

Australian Endodontic Journal

Journal of Endodontics

Journal of Dental Anesthesia and Pain Medicine

Oral Surgery

Clinical Oral Investigations

Indian Journal of Medical Research

Clinical and Experimental Dental Research

Acta Odontologica Scandinavica

Pesquisa Brasileira Em Odontopediatria E Clínica Integrada

Heliyon

BMC Oral Health

Journal of Tissue Engineering and Regenerative Medicine

International Journal of Pharmaceutics

SRM Journal of Research in Dental Sciences

Dubai Medical Journal

International Journal of Paediatric Dentistry

Journal Of Acute Disease

Journal of Cosmetic Dermatology

Journal of Investigative and Clinical Dentistry

European Journal of Dentistry

Chiang Mai Dental Journal

Postgraduate Medicine

Drugs

Clinical Case Reports

Annals of Saudi Medicine

Frontiers in Oral Health

Journal of International Medical Research

Frontiers in Medicine
Frontiers in Dental Medicine
Pain Research and Management
Saudi Pharmaceutical Journal
BDJ Open
The Journal of the American Dental Association
European Journal of Neurology
Local and Regional Anesthesia
Head & Face Medicine
International Journal of Dentistry
Journal of Prosthodontics
Journal of Esthetic and Restorative Dentistry

Research Grants and Projects

- Principal investigator DST (Department of Science and Technology, Govt of India) funded project titled Preventing degradation of resin-dentin bonds by the therapeutic effect of the combination of calcium silicates and casein phosphopeptide: Completed

- Principal investigator SERB (Science and Engineering Research Board, Department of Science and Technology, Govt of India) funded a project titled: Development of a novel dentin bonding agent with the incorporation of silver nano-particles: Ongoing

Patents (granted 2023-24)

- Dental anesthesia cartridge with integrated needle: 202311059928
- Endodontic multiple side vent needle: 202311047742
- Smartphone based electronic apex locator: 202311025356
- Silver nanoparticles in dental adhesives: 202311010744
- Orthodontic band remover with bifid crescent tip: 393625-001
- Dental anesthetic cartridge with integrated needle: 392689-001
- Off centered root canal file: 390196-001
- Endodontic irrigation needle with multiple side vents: 389697-001
- Dental bur for crown preparation: 382317-001
- Paper point with split tip for blunderbuss canals: 381777-001
- Dental inspecting probe for interproximal evaluation: 381347-001
- Dental probe for check: 380324-001
- Endodontic paper: 379988-001
- Dental proximal polishing strip holder: 379532-001

- Dental instrument for pericervical dentin removal: 379430-001
- Root canal rotory instrument: 379431-001
- adjustable dual grip tip attachment for dental crown remover: Design number 6355305
- dental handpiece with finger rest: Design number 6346260
- dental extraction elevator with attachment for an endodontic file: Design number 6315410
- smart toothbrush with ph sensor: Design number 6315346
- novel 3d mini plate with adjustable arm to protect mental nerve: Design number 6329305
- ratchet controlled expanding dental wedge: Design number 6344920
- combined cheek lip and flap retractor: Design number 6357634
- bilateral jaw opener with adjustable arm: Design number 6357633
- ball point pen with detachable ink reservoir: Design number 6308372
- paper point with split tip for blunderbuss canals: Design number 6308371
- sewing needle with two eyes and with self-threading design
- safe end dental round bur for pulp chamber unroofing: Design number 6308368

- endodontic paper point with lateral flow immunochromatographic assay: Design number 6308367
- dual lateral flow immunoassay: Design number 6308365
- dental instrument for pericervical dentin removal: Design number 6308364
- dental amalgam carver: Design number 6308363

Publications

- Aggarwal V, Singla M, Saatchi M, Gupta A, Hasija M, Meena B. Effect of Cooling of Lidocaine with Epinephrine on the Anesthetic Success of Supplementary Intraligamentary Injection after a Failed Primary Inferior Alveolar Nerve Block: A Randomized Controlled Trial. *Eur Endod J.* 2023;8(4):239-245.
- Aggarwal V, Singla M. Are P values given more importance than they deserve? *Endodontology.* 2023;35(1):15-17.
- Aneja K, Gupta A, Abraham D, Aggarwal V, Sethi S, Chauhan P, Singh A, Kurian AH, Jala S. Influence of vehicle for calcium hydroxide on postoperative pain: a scoping review. *J Dent Anesth Pain Med.* 2022;22(2):75.
- Sreen D, Abraham D, Gupta A, Singh A, Aggarwal V, Chauhan N, Jala S, Mehta N. Comparative evaluation of the force required to fracture coronal segments reattached using different methods. *Dent Traumatol.* 2022;38(2):143-148.
- Mittal S, Aggarwal V, Munjal S, Kumar T, Keshav V, Kaur A, Kaur A. A multidisciplinary approach toward the replacement of missing maxillary anterior teeth using impacted mesiodens as abutment via “reverse endodontic treatment”. *Endodontology.* 2022;34(4):306-309.
- Gupta A, Aneja K, Wadhwa J, Aggarwal V, Sidhu S, Mehta N. Preoperative nonsteroidal anti-inflammatory drugs on the success of inferior alveolar nerve block in irreversible pulpitis: An overview of systematic reviews. *Saudi Endod J.* 2023;13(1):9-21.
- Gupta A, Singh A, Aneja K, Aggarwal V, Wadhwa J, Abraham D. How to write a scoping review?--A comprehensive guide. *Endodontology.* 2023;35(1):9-14.
- Sahai A, Gupta A, Abraham D, Aggarwal V, Singh A, Sharma G, Gurawa A. Evaluation of postoperative pain using warm versus room temperature sodium hypochlorite as an irrigant in mandibular molars with irreversible pulpitis: A randomized controlled trial. *J Conserv Dent Endod.* 2023;26(4):458-465.

- Xia M, Ma W, Zuo M, Deng X, Xue F, Battaglini D, Aggarwal V, Varrassi G, Cerny V, Di Giacinto I, et al. Expert consensus on difficult airway assessment. *Hepatobiliary Surg Nutr.* 2023;12(4):545.
- Gupta A, Singh A, Aggarwal V. Effect of nanoparticles on antibacterial efficacy of intracanal medicament: A scoping review. *Endodontology.* 2023;35(4):283-289.
- Aggarwal V, Ahmad T, Singla M, et al. Addition of 2 mg dexamethasone to improve the anesthetic efficacy of 2% lidocaine with 1: 80,000 epinephrine administered for inferior alveolar nerve block to patients with symptomatic irreversible pulpitis in the mandibular molars: a randomized double-blind clinical trial. *Journal of Dental Anesthesia and Pain Medicine* 2022;22:305–14.
- Aggarwal V, Singla M, Saatchi M, et al. Preoperative intraligamentary injection of dexamethasone can improve the anesthetic success rate of 2% lidocaine during the endodontic management of mandibular molars with symptomatic irreversible pulpitis. *Journal of Endodontics* 2021;47:161–8.
- Iranmanesh P, Khazaei S, Nili M, et al. Anaesthetic efficacy of incorporating different additives into lidocaine for the inferior alveolar nerve block: A systematic review with meta-analysis and trial sequential analysis. *International Endodontic Journal* 2022.
- Aggarwal V, Singla M, Gupta A, Mehta N, Kumar U. How to write systematic review and meta-analysis. *Endodontology* 2021;33:55.
- Gupta A, Wadhwa J, Aggarwal V, et al. Anesthetic efficacy of supplemental intraligamentary injection in human mandibular teeth with irreversible pulpitis: a systematic review and meta-analysis. *Journal of Dental Anesthesia and Pain Medicine* 2022;22:1.
- Singla M, Gugnani M, Grewal MS, Kumar U, Aggarwal V. Does the presence and amount of epinephrine in 2% lidocaine affect its anesthetic efficacy in the management of symptomatic maxillary molars with irreversible pulpitis? *Journal of Dental Anesthesia and Pain Medicine* 2022;22:39.
- Aneja K, Gupta A, Abraham D, et al. Influence of vehicle for calcium hydroxide on postoperative pain: a scoping review. *Journal of Dental Anesthesia and Pain Medicine* 2022;22:75–86.

- Gupta A, Sahai A, Aggarwal V, et al. Anesthetic efficacy of primary and supplemental buccal/lingual infiltration in patients with irreversible pulpitis in human mandibular molars: a systematic review and meta-analysis. *Journal of Dental Anesthesia and Pain Medicine* 2021;21:283.
- Gupta A, Aggarwal V, Gurawa A, et al. Effect of intracanal cryotherapy on postendodontic pain: a systematic review and meta-analysis of randomized controlled trials. *Journal of Dental Anesthesia and Pain Medicine* 2021;21:15.
- Kumar U, Rajput A, Rani N, et al. Effect of pre-operative medication with paracetamol and ketorolac on the success of inferior alveolar nerve block in patients with symptomatic irreversible pulpitis: a double-blind randomized clinical trial. *Journal of Dental Anesthesia and Pain Medicine* 2021;21:441.
- Aggarwal V, Singla M, Saatchi M, Hasija M. Anaesthetic efficacy of 2% lidocaine with different concentrations of epinephrine (1: 80,000 and 1: 200,000) in intraligamentary injection after a failed primary inferior alveolar nerve block: a randomized double-blind study. *Acta Odontologica Scandinavica* 2020;78:275–80.
- Faghihian H, Faghihian R, Khademi A, Aggarwal V. Anesthetic Efficacy of Lidocaine/Ketorolac on Inferior Alveolar Nerve Block in Patients with Irreversible Pulpitis: A Randomized Clinical Trial. *European Endodontic Journal* 2020;5:186.
- Aggarwal V, Singla M, Miglani S, Kohli S. CONSORT Randomized Clinical Trial 1 Efficacy of Articaine Versus Lidocaine Administered as Supplementary Intraligamentary Injection after a Failed Inferior Alveolar Nerve Block: A Randomized Double-blind Study n.d.
- Gupta A, Aggarwal V, Mehta N, Abraham D, Singh A. Diabetes mellitus and the healing of periapical lesions in root filled teeth: a systematic review and meta-analysis. *International Endodontic Journal* 2020;53:1472–84.
- Singla M, Aggarwal V, Sinha N. External root surface temperature changes during high-temperature injectable thermoplasticized root canal obturation in simulated immature teeth. *Saudi Endodontic Journal* 2020;10:51.
- Mehta N, Gupta A, Aggarwal V, Abraham D, Singh A. Effect of autologous platelet aggregates on the healing outcome of periapical surgery for the management of apico-marginal defects: A systematic review. *Saudi Endodontic Journal* 2020;10:187.

- Aggarwal V, Singla M, Miglani S, Kohli S. Efficacy of articaine versus lidocaine administered as supplementary intraligamentary injection after a failed inferior alveolar nerve block: a randomized double-blind study. *Journal of Endodontics* 2019;45:1–5.
- Kumar U, Aggarwal V, Singh S, Singh SP, Gauba K. Is bilateral mental incisive nerve block better than unilateral mental incisive nerve block during the endodontic management of mandibular incisors with symptomatic irreversible pulpitis? A prospective single-blind randomized clinical trial. *Journal of Endodontics* 2020;46:471–4.
- Aggarwal V, Singla M, Saatchi M, Hasija M. Anaesthetic efficacy of 2% lidocaine with different concentrations of epinephrine (1:80,000 and 1:200,000) in intraligamentary injection after a failed primary inferior alveolar nerve block: a randomized double-blind study. *Acta Odontol Scand* 2020;78:275–80.
- Aggarwal V, Singla M, Miglani S, Kohli S. Efficacy of Articaine Versus Lidocaine Administered as Supplementary Intraligamentary Injection after a Failed Inferior Alveolar Nerve Block: A Randomized Double-blind Study. *J Endod*. 2019 Jan;45(1):1-5. doi: 10.1016/j.joen.2018.09.012. Epub 2018 Dec 6. PubMed PMID: 30527595.
- Gupta A, Aggarwal V, Mehta N, Abraham D, Singh A. Diabetes mellitus and the healing of periapical lesions in root-filled teeth: a systematic review and meta-analysis. *Int Endod J* 2020.
- Mehta N, Gupta A, Aggarwal V, Abraham D, Singh A. Effect of autologous platelet aggregates on the healing outcome of periapical surgery for the management of apico-marginal defects: A systematic review. *Saudi Endodontic Journal* 2020;10:187.
- Kumar U, Aggarwal V, Singh S, Singh SP, Gauba K. Is Bilateral Mental Incisive Nerve Block Better than Unilateral Mental Incisive Nerve Block during the Endodontic Management of Mandibular Incisors with Symptomatic Irreversible Pulpitis? A Prospective Single-blind Randomized Clinical Trial. *J Endod* 2020;46:471–4.

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- Aggarwal V, Singla M, Miglani S, Sharma V, Kohli S. Effect of polyethylene fiber reinforcement on marginal adaptation of composite resin in Class II preparations. *Gen Dent.* 2018 Nov-Dec;66(6):e6-e10. PubMed PMID: 30444714.
- Aggarwal V, Singla M, Miglani S, Sharma R. Effect of root canal obturation with calcium silicate materials on pH change in simulated root resorption defects. *Gen Dent.* 2018 May-Jun;66(3):64-67. PubMed PMID: 29714703.
- Aggarwal V, Singla M, Miglani S. Effect of relative head position on the anesthetic efficacy of inferior alveolar nerve block during endodontic treatment of patients with irreversible pulpitis. *J Dent Anesth Pain Med.* 2018 Feb;18(1):41-46. doi: 10.17245/jdapm.2018.18.1.41. Epub 2018 Feb 27. PubMed PMID: 29556558; PubMed Central PMCID: PMC5858008.
- Aggarwal V, Singla M, Miglani S. Comparative Evaluation of Anesthetic Efficacy of 2% Lidocaine, 4% Articaine, and 0.5% Bupivacaine on Inferior Alveolar Nerve Block in Patients with Symptomatic Irreversible Pulpitis: A Prospective, Randomized, Double-blind Clinical Trial. *J Oral Facial Pain Headache.* 2017 Spring;31(2):124-128. doi: 10.11607/ofph.1642. PubMed PMID: 28437508.
- Aggarwal V, Singla M, Sharma R, Miglani S, Bhasin SS. Effects of simplified ethanol-wet bonding technique on immediate bond strength with normal versus caries-affected dentin. *J Conserv Dent.* 2016 Sep-Oct;19(5):419-23. doi: 10.4103/0972-0707.190009. PubMed PMID: 27656059; PubMed Central PMCID: PMC5026100.
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Sep/Oct;43(5):E243-E252. doi: 10.2341/17-306-L. Epub 2018 Jun 28. PubMed PMID: 29953337.

- Aggarwal V, Singla M, Miglani S, Sharma R. Effect of root canal obturation with calcium silicate materials on pH change in simulated root resorption effects. *Gen Dent*. 2018 May-Jun;66(3):64-67. PubMed PMID: 29714703.
- Aggarwal V, Singla M, Miglani S, Kohli S, Sharma V, Bhasin SS. Does the volume of supplemental intraligamentary injections affect the anaesthetic success rate after a failed primary inferior alveolar nerve block? A randomized-double blind clinical trial. *Int Endod J*. 2018 Jan;51(1):5-11. doi: 10.1111/iej.12773. Epub 2017 May 25. PubMed PMID: 28370327.
- Aggarwal V, Singla M, Bhasin SS. Influence of instrument size and varying electrical resistance of root canal instruments on accuracy of three electronic root canal length measurement devices. *Int Endod J*. 2017 May;50(5):506-511. doi: 10.1111/iej.12649. Epub 2016 May 5. PubMed PMID: 27079789.
- Aggarwal V, Singla M, Miglani S, Kohli S. Comparative Evaluation of Mental Incisal Nerve Block, Inferior Alveolar Nerve Block, and Their Combination on the Anesthetic Success Rate in Symptomatic Mandibular Premolars: A Randomized Double-blind Clinical Trial. *J Endod*. 2016;42(6):843-5.
- Aggarwal V, Singla M, Singh S. Influence of instrument size and varying electrical resistance of root canal instruments on accuracy of three electronic root canal length measurement devices. *Int Endod J*. 2016 Apr 15. doi: 10.1111/iej.12649.
- Aggarwal V, Singla M, Sharma R, Miglani S, Bhasin SS. Effects of simplified ethanol-wet bonding technique on immediate bond strength with normal versus caries-affected dentin. *J Conserv Dent*. 2016 Sep-Oct;19(5):419-23.
- Aggarwal V. Effect of root canal obturation with calcium silicate materials on pH change in simulated root resorption defects. Accepted and in press *General Dentistry*.
- Aggarwal V. Comparative evaluation of 2% lidocaine, 4% articaine and 0.5% bupivacaine on anesthetic efficacy of inferior alveolar nerve block in patients with symptomatic irreversible pulpitis: a prospective, randomized, double-blind clinical trial. Accepted and in press *Journal of Oro-facial pain and headache*.

- Aggarwal V, Singla M. Lining prefabricated dowel(s) with fiber reinforced resin composite. Accepted and in press Australian Endodontic Journal 2016.
- Aggarwal V, Singla M, Subbiya A, Vivekanandhan P, Sharma V, Sharma R, Prakash V, Geethapriya N. Effect of Preoperative Pain on Inferior Alveolar Nerve Block. Anesth Prog. 2015 Winter;62(4):135-139.
- Aggarwal V, Singla M, Yadav S, Yadav H, Ragini. Marginal Adaptation Evaluation of Biodentine and MTA Plus in "Open Sandwich" Class II Restorations. J Esthet Restor Dent. 2015 May-Jun;27(3):167-75.
- Aggarwal V, Singla M, Yadav S, Yadav H, Sharma V, Bhasin SS. The effect of ferrule presence and type of dowel on fracture resistance of endodontically treated teeth restored with metal-ceramic crowns. J Conserv Dent. 2014 Mar;17(2):183-7. doi: 10.4103/0972-0707.128053. PubMed PMID: 24778519; PubMed Central PMCID: PMC4001279.
- Aggarwal V, Singla M, Yadav S, Yadav H. Effect of flowable composite liner and glass ionomer liner on class II gingival marginal adaptation of direct composite restorations with different bonding strategies. J Dent. 2014 May;42(5):619-25. doi: 10.1016/j.jdent.2014.02.016. Epub 2014 Mar 11. PubMed PMID: 24631232.
- Singla M, Subbiya A, Aggarwal V, Vivekanandhan P, Yadav S, Yadav H, Venkatesh A, Geethapriya N, Sharma V. Comparison of the anaesthetic efficacy of different volumes of 4% articaine (1.8 and 3.6 mL) as supplemental buccal infiltration after failed inferior alveolar nerve block. Int Endod J. 2014 Mar 24. doi: 10.1111/iej.12283. [Epub ahead of print] PubMed PMID: 24661235.
- Aggarwal V, Singla M, Miglani S, Kohli S. Comparison of the anaesthetic efficacy of epinephrine concentrations (1 : 80 000 and 1 : 200 000) in 2% lidocaine for inferior alveolar nerve block in patients with symptomatic irreversible pulpitis: a randomized, double-blind clinical trial. Int Endod J. 2014 Apr;47(4):373-9. doi: 10.1111/iej.12157. Epub 2013 Jul 29. PubMed PMID: 23895176.
- Aggarwal V, Singla M, Miglani S, Kohli S. Comparative evaluation of push-out bond strength of ProRoot MTA, Biodentine, and MTA Plus in furcation perforation repair. J Conserv Dent. 2013 Sep;16(5):462-5. doi: 10.4103/0972-0707.117504.

Erratum in: J Conserv Dent. 2014 Jan;17(1):95. PubMed PMID: 24082579; PubMed Central PMCID: PMC3778632.

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- Aggarwal V, Singla M, Miglani S, Kohli S. Effect of different root canal obturating materials on push-out bond strength of a fiber dowel. J Prosthodont. 2012 Jul;21(5):389-92. doi: 10.1111/j.1532-849X.2012.00850.x. Epub 2012 Apr 18. PubMed PMID: 22512406.
- Aggarwal V, Singla M. Endodontic management of a patient with oral submucous fibrosis using custom modified endodontic instruments. J Conserv Dent. 2012 Jan;15(1):89-91. doi: 10.4103/0972-0707.92616. PubMed PMID: 22368345; PubMed Central PMCID: PMC3284024.
- Aggarwal V, Miglani S, Singla M. Conventional apexification and revascularization induced maturogenesis of two non-vital, immature teeth in same patient: 24 months follow up of a case. J Conserv Dent. 2012 Jan;15(1):68-72. doi: 10.4103/0972-0707.92610. PubMed PMID: 22368339; PubMed Central PMCID: PMC3284018.

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- Aggarwal V, Singla M, Miglani S, Ansari I, Kohli S. A prospective, randomized, single-blind comparative evaluation of anesthetic efficacy of posterior superior alveolar nerve blocks, buccal infiltrations, and buccal plus palatal infiltrations in patients with irreversible pulpitis. *J Endod*. 2011 Nov;37(11):1491-4. doi: 10.1016/j.joen.2011.08.018. PubMed PMID: 22000449.
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- Aggarwal V, Singla M, Kabi D. An in vitro evaluation of performance of two electronic root canal length measurement devices during retreatment of different obturating materials. *J Endod*. 2010 Sep;36(9):1526-30. doi: 10.1016/j.joen.2010.04.016. Epub 2010 Jul 3. PubMed PMID: 20728721.
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