

# Curriculum Vitae

Dr. Tarun Walia

[t.walia@ajman.ac.ae](mailto:t.walia@ajman.ac.ae)

## Personal Information

- Date of Birth: 26.09.1969
- Gender: Male
- Nationality: Indian
- Marital Status: Married

## A. Academic and Professional Qualifications

### **Qualifications** (BDS, MDS, M.Paed RCS, FDS RCPSG)

- **2021** – Fellowship in Dental Surgery (*FDS*) from Royal College of Physicians and Surgeons, Glasgow (UK).
- **2003** - Membership in Pediatric Dentistry (*M.Paed Dent*) from Royal College of Surgeons of England (UK).
- **1997** - Master of Dental Surgery (*M.D.S.*) in Pediatric and Preventive Dentistry, from Post Graduate Institute of Medical Education and Research, Chandigarh (Punjab University, Chandigarh), INDIA.
- **1994** - Bachelor of Dental Surgery (*B.D.S.*) from D.A.V. (C) Dental College & Hospital, Yamunanagar, India.

### **Dental Council Registration of Qualifications**

- **2020** - Specialist Paediatric Dentist License from Ministry of Health and Prevention, United Arab Emirates, UAE (Registered License No. D60159).
- **2012** - Indian Dentists Register (Pedodontics and Preventive Dentistry) at Punjab Dental Council affiliated to Dental Council of India (Registered No. A 1368 for MDS).
- **2004** - Specialist Paediatric Dentist License from Dubai Health Authority, UAE (Registered License No. 00247456-001).
- **1994** - Indian Dentists Register (General Dentistry) at Punjab Dental Council affiliated to Dental Council of India (Registered No. A 1368 for BDS).

### **Certificate Courses**

- Valid Basic Life Support
- Valid Paediatric Advanced Life Support
- Secrets of successful child management – Using Nitrous Oxide Sedation, joint dental conference by College of Dentistry, Ajman University of Science & Technology and Faculty of Dentistry, Royal College of Surgeons in Ireland, April 2012.
- Certificate course on Good Clinical Practice by NIDA Clinical Trials Network, 2021.
- Conscious sedation in Dentistry with Hands on Training, accredited by Manchester University (UK), March 2010.
- Course on Research Methodology and Biostatistics, PGIMER, Chandigarh, 1996.

### ***Current Academic Position***

Program Coordinator, Masters of Paediatric Dentistry, College of Dentistry, Ajman University, Ajman, UAE from 12.01.2020 till date.

- Associate Professor, Department of Clinical Sciences, College of Dentistry, Ajman University, Ajman, UAE since 01.09.2016.

### ***Previous Academic Position***

- Assistant Professor: College of Dentistry, Ajman University, Ajman, UAE from 21.02.2010 to 31.08.2016.
- Senior Registrar: Department of Pediatric and Preventive Dentistry at Oral Health Sciences Centre, Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh, India from 20.01.1998 to 19.01.2001.

### ***Professional Memberships***

- International Association of Pediatric Dentistry
- Founding Member of Emirates Pediatric Dentistry Club
- International Association of Dental Traumatology
- Indian Society of Pedodontics and Preventive Dentistry
- Indian Dental Association

### ***Awards***

- **Best paper award** at 3rd Triennial Commonwealth Association & 54<sup>th</sup> Indian Dental Association Conference, February 2000, New Delhi, India.
- **Merit certificate** awarded by Indian Society of Periodontology in 1993 for standing first in the subject of Periodontia in M.D. University, Rohtak, India.
- **Merit certificate** awarded by the Indian Society of Pedodontics & Preventive Dentistry in 1993 for standing first in the subject of Pedodontics in M.D. University, Rohtak, India.

### ***Honours***

- Oral Pathology - Third Year BDS (1992)

### ***Medals***

- **Silver Medal** - MDS Final Examination, January 1998 Punjab University, Chandigarh, India.
- **Gold Medal for Best Graduate** of BDS Course, Batch 1989-93 by M. D. University, Haryana, India
- **Silver Medal** - First in Final Year BDS (1993)
- **Bronze Medal** - Second in Oral Surgery – Final year BDS (1993)
- **Bronze Medal** - Second in Prosthodontics – Final year BDS (1993)
- **Silver Medal** - First in Pedodontia – Final year BDS (1993)
- **Silver Medal** - First in Periodontia – Final year BDS (1993)
- **Silver Medal** - First in Third year BDS (1992)
- **Silver Medal** - First in General Medicine – IIIrd year BDS (1992)
- **Silver Medal** - First in Oral Pathology – IIIrd year BDS (1992)
- **Silver Medal** - First in General Pathology & Microbiology. IIInd year BDS (1991)
- **Bronze Medal** - Second in Human Physiology I year BDS (1990)

## B. Teaching

### ***Teaching Experience***

- **Associate Professor:** College of Dentistry, Ajman University, Ajman, UAE from 01.09.2016 till date.
- **Assistant Professor:** College of Dentistry, Ajman University, Ajman, UAE from 21.02.2010 to 31.08.2016.
- **Senior Registrar:** Department of Pediatric and Preventive Dentistry at Oral Health Sciences Centre, Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh, India from 20.01.1998 to 19.01.2001.
- **Junior Registrar (MDS):** Three-year program in Pediatric and Preventive Dentistry at Oral Health Sciences Centre, Post Graduate Institute of Medical & Research (PGIMER), Chandigarh, India from 01.01.1995 to 31.12.1997.

### ***Teaching Responsibilities***

- Taught both at undergraduate and post graduate levels.
- Program Coordinator
- Course coordinator
- Teaching material preparation
- End term assessment with submission of course report.

### ***Development of Program***

- Post-graduation program in Paediatric Dentistry (MSc-Paed Dent) in College of Dentistry, Ajman University, UAE.

### ***Participation in Academic Accreditation***

- MSc Paediatric Dentistry Program, Head of accreditation team (Commission of Academic Accreditation, Ministry of Education, UAE) in 2018, College of Dentistry, Ajman University, UAE.
- DDS Program, Member of accreditation team (Commission of Academic Accreditation, Ministry of Education, UAE) in 2016, College of Dentistry, Ajman University, UAE.

### ***Development of Courses***

Seven (7) new courses for MSc – Paediatric Dentistry Program at College of Dentistry, Ajman University, UAE:

- Fundamentals of Paediatric Dentistry
- Clinical Practice in Paediatric Dentistry
- Dental Traumatology
- Paediatric Dentistry Literature Review
- Clinical Anaesthesia and Hospital Paediatric Dentistry
- Advanced Seminar in Paediatric Dentistry - II
- Thesis Preparation

### ***Courses Taught (Last five years)***

- Clinical Pediatric Dentistry – IV (MPD 707)
- Advanced Seminar in Paediatric Dentistry – II (MPD 706)
- Thesis Preparation – I (MPD708)

- Advanced Seminar in Paediatric Dentistry – I (MPD702)
- Clinical Paediatric Dentistry – I (MPD 702)
- Fundamentals of Paediatric Dentistry (MPD 603)
- Dental Traumatology (MPD 607)
- Clinical Paediatric Dentistry – I (MPD 604)
- Clinical Paediatric Dentistry – II (MPD 612)
- Paediatric Dentistry Literature Review (MPD 611)
- Clinical Paediatric Dentistry – I (DDS 403)
- Clinical Paediatric Dentistry – II (DDS 413)
- Research Project (DDS 512)

### ***Teaching Accomplishments and Contributions***

- Effectively developed post graduate dental clinics and teaching rooms for MSc Paediatric Dentistry program.
- Started sedation clinics in MSc Paediatric Dentistry to perform behaviour management of anxious children with inhalation of nitrous oxide anxiolysis analgesia.
- Contributed to establishment of Memorandum of Understanding between College of Dentistry, Ajman University and Thumbay University Hospital (TUH), Ajman, UAE for starting Clinical Paediatric Medicine Rounds for post graduate students in MSc Paediatric Dentistry to learn the medical management of emergencies in children.
- Established training area for students on dental management of children under General Anaesthesia in a hospital set up at TUH with collaboration of department of anaesthesiology at TUH.
- Prepared catalogue course description, learning outcomes for the courses, course contents, delivery methods and course assessment methods.
- Changed teaching methodology from traditional methods to problem/case-based learning, Inquiry-based learning, journal-based learning.
- Adopted blended learning approach, Interactive online sessions, Patient management simulation, module interactive teaching sessions with formative and summative assessment.
- Incorporated a new modern assessment method - Direct Observation of Procedural Skills in the clinical practice courses that evaluated students' performance in terms of skill, attitude, behaviour, and knowledge.

### ***Examinership***

- Examiner for MFD examination conducted by Royal College of Surgeons of Ireland.

### ***Students' advising and career counselling***

- Academic advisor for 13 post graduate students and 34 undergraduate students – Advising registration of courses and study plan.
- Counsel senior students for job placement and post-graduation programs in pediatric dentistry.
- Contacted Departmental heads of international accredited postgraduate programs and provide recommendation letters to students for post graduate studies.

### ***Invited Lectures***

- **International:** IAPD – Athens (2011), IAPD – Seoul (2013), IAPD - Glasgow (2015), Chile (2017), IAPD - Mexico (2019), FDI - New Delhi (2004), FDI – Dubai (2007) FDI - Istanbul (2013).
- **National Oral Presentations:** 32.
- Keynote speaker for the South Asian Academy of Paediatric Dentistry and Bangladesh Society of Paediatric Dentistry - Pedo Virtual Summit 2021. April 2021.
- Moderated scientific session at IAPD20 Virtual organized by International Association of Paediatric Dentistry. 14<sup>th</sup> September 2020.
- Invited speaker to the scientific program for 27th Congress of International Association of Paediatric Dentistry, Cancun, Mexico, July 2019.
- Speaker at the CDE program jointly conducted by Ras al Khaimah Medical Health Sciences University and AKMG September 2019, Ras Al Khaimah, UAE.
- Complexities in long term management of tooth avulsion in growing patients. Presented at Joint Symposium of Emirates Endodontic Society & Emirates Paediatric Dentistry Club. May 2019, Dubai, UAE.
- Extra Coronal Full Coverage Restorations for Primary Dentition presented at 40th National Conference of the Indian society of Pedodontics and Preventive Dentistry, October 2018, Chennai, India.
- Retrospective evaluation of clinical performance of NuSmile® pedodontic zirconia crowns in pulp treated primary teeth – 2 years follow up study. Presented at 26th Congress of International Association of Paediatric Dentistry, October 2017, Santiago, Chile.
- A split mouth clinical study evaluating stainless steel crowns and primary zirconia crowns in pulp treated primary molars. Presented at 25th Congress of International Association of Paediatric Dentistry, July 2015, Glasgow, United Kingdom (UK).
- Dilemma of nonvital teeth during mixed dentition period – Retain OR Remove. Presented at AEEDC, February 2015. Dubai, UAE.
- Tooth coloured aesthetic crowns for extensively decayed primary dentition - Presented at AEEDC, February 2014, Dubai, UAE.
- Randomized control trial comparing three aesthetic full-coronal restorations in primary Incisors. Presented at 24<sup>th</sup> Congress of International Association of Paediatric Dentistry, June 2013, Seoul, South Korea.
- Treatment options for non-vital immature traumatized teeth, Advancing excellence in dental care 2011. College of Dentistry, Ajman University of Science & Technology, April 2011 (Ajman, UAE).
- Paediatric Dentistry : A clinical art – simplified. CME program organized by college of dentistry, Ajman university of Science & Technology, 5 Jan 2010 (Ajman, UAE).
- Updates in Paediatric dentistry. Presented at continuing medical education programme, Zulekha Hospital, Sharjah, UAE. 14 Nov 2008 (Ajman, UAE).
- A review of Glass Ionomer Cements in Primary Dentition. Presented at Emirates Medical Association – Dental Society, RAK Dental symposium, 2 Feb 2008 (Ras Al Khaimah, UAE).
- Behaviour Management in Paediatric Dentistry. Presented at Dental Day, 2007, 2 Feb 2007 (Ras Al Khaimah, UAE).
- Implementation strategies for training school children on oral health - A comparative evaluation. Presented at 3rd Triennial Commonwealth Dental Association & 54th Indian Dental Association Congress, 28 Jan-1 Feb.2000 (New Delhi).
- Effectiveness of Pulpdent paste in Apexification. Presented at the 21<sup>st</sup> ISPPD Conference, 13-15 Nov.1999 (Amritsar).

- Effect of school based oral health preventive programme on KAP and Oral Health Status of 7-9 year children. Presented at the 20<sup>th</sup> ISPPD Conference, 13-14 Jan.1999 (Mumbai).

#### ***Hands-on course Conducted***

- Zirconia crowns in primary teeth. Post graduate student conference of Indian Society of Pedodontics and Preventive Dentistry, Chandigarh, India.
- Conducted hands on training program on Primary Zirconia Crowns for Specialist Pediatric Dentists working in Dubai Health Authority, Dubai, UAE.
- Conducted Hands On training workshop for Specialist Pediatric Dentists and GP's working in Ministry of Health and Prevention, UAE on Strip crowns for primary incisors, Dubai, UAE.

## **C. Clinical Service**

#### ***Clinical Experience***

Total experience of 21 years

- **Specialist Paediatric Dentist:** Drs Nicolas & Asp Centre, Dubai, UAE from 03.04.2010 till date.
- **Specialist Paediatric Dentist:** NMC specialty Hospital, Dubai, UAE from 10.07.2004 to 17.02.2010.
- **Specialist Paediatric Dentist 'A':** C.S Medical Centre, Sharjah, UAE from 01.09.2001 to 11.3.2004.
- **Senior Registrar:** Department of Pediatric and Preventive Dentistry at Oral Health Sciences Centre, PGIMER, Chandigarh, India from 20.01.1998 to 19.01.2001.

#### ***Clinical Skill Competence***

- Preventive procedures: Fluoride application, pit & fissure sealants, and preventive resin restoration.
- Minimal and non-invasive procedures: Silver Diamine fluoride, Hall's technique, Atraumatic restorative technique, Smart Hall.
- Behaviour guidance and shaping of young and anxious children.
- Interventional procedures: Restorations, pulp capping, pulpotomy, pulpectomy, apical closure techniques, extractions, interceptive orthodontics including space management, habit breaking appliances.
- Dental Management of children with rampant caries.
- Oral rehabilitation of developmental dental anomalies.
- Management of Oro-dentoalveolar trauma: Both hard and soft tissue trauma including decoronation, auto transplantation and splinting.
- Management of anxious children under nitrous oxide conscious inhalation sedation.
- Day stay general anaesthetic sessions for surgical and restorative treatment.
- Dental management of children with medically compromised conditions.
- Dental care for children with special health care needs.
- Advanced Restorative techniques: Micro abrasion, resin infiltration, bleaching of non-vital permanent incisors.

#### ***Clinical Interests***

- Tooth colored restorations

- Pulp therapy in primary teeth
- Dental Traumatology

## D. Research

### ***Research Publications, Identifiers, Citations, and Interests***

- Scientific Papers: 24
- Scopus Author ID: 6508088638
- Researcher ID: AAX-2818-2021
- ORCID: 0000-0002-8144-7490
- Citations: 294 - Google Scholar, 121 – Scopus, 83 – Web of Science
- h-Index: 7- Google Scholar, 5 – Scopus, 4 – Web of Science
- Research Interests: Early Childhood Caries, Esthetics in Primary Dentition, Developmental Defects of Enamel.

### ***Publications***

#### ***Scientific papers published in impact factor journals (\* indicates corresponding author)***

- **Tarun Walia\***, Wed F. A. Alzayer, Mohammed N. A. AlNemer. Pulpal Dressing Condensation Methods in Pulpotomy for Primary Molars: An In-Vitro Comparative Study. *The Saudi Dent J.* 2021; 33: 1029-34.
- **Tarun Walia\***, Gauri Kalra, Vijay Prakash Mathur, Jatinder Kaur Dhillon. Authors submission guidelines, a survey of pediatric dentistry journals regarding ethical Issues. *PLoS ONE.* 2022. 17(1); e0261881:1-10.
- **Walia T\***, Brigi C, Ziadkhani MM, Khayat AA, Tabibzadeh Z. Retention Force of Glass Ionomer Based Luting Cements (GICs) with Posterior Primary Zirconium Crowns – A Comparative in Vitro Study. *J. Clin Pediatr Dent.* 2021; 45(4): 259-264.
- **Walia T**, Kirthiga M, Brigi C, Muthu MS, Odeh R, Mathur VP, Rodrigues S. OXIS contact areas of primary molars – a two center cross-sectional study. *Wellcome Open Res* 2020, 5:285.
- **Walia T\***, Brigi C, Odeh R, Maree BH, Yarub KR. Parental perceptions and drinking water source among pediatric population in the United Arab Emirates. *J Int Oral Health.* 2019; 11: 61-5.
- **Walia T\***, Chandwani N. Long-term management of an ankylosed young permanent incisor replanted within 2 h of avulsion: A case report with a 10-year follow-up. *J Indian Soc Pedod Prev Dent* 2019; 37: 99-106.
- **T. Walia\***, C. Brigi, Abdel Rahman M. M. KhirAllah. Comparative evaluation of surface roughness of posterior primary zirconia crowns. *Eur Arch Paediatr Dent* 2019; 20:33 –40.
- Simy Mathew, Alexander Maniangat Luke, **Tarun Walia**, Anas Ghalib Masri, Hamad Jamal, Ajinkya Mansing Pawar. Effect of fruit juices and other beverages on loss of tooth structure. *Pesq Bras Odontoped Clin Integr* 2018; 18(1):e3888.
- **Tarun Walia\***, Salem Abu Fanas, Madiha Akbar, Jamal Eddin, Mohamad Adnan. Estimation of fluoride concentration in drinking water and common beverages in United Arab Emirates (UAE). *The Saudi Dent J.* 2017; 29: 117-122.

- **Walia T\***, Ghabari. A.H, Mathew, S. An in vitro comparison of three delivery techniques for obturation of root canals in primary molars. *Eur Arch Paediatr Dent*. 2017; 18(1): 17-23.
- **A. Salami**, T. Walia\*, R. Bashiri. Comparison of parental satisfaction with three tooth-colored full-coronal restorations in primary maxillary incisors. *J. Clin Pediatr Dent*. 2015; 39(5):423-428.
- **Tarun Walia\***. Pulpectomy in hyperaemic pulp and accelerated root resorption in primary teeth – A review with an associated case report. *J Indian Soc Pedo Prev Dent*. 2014; 32(3):255-261.
- **T. Walia\***, A. Salami, R. Bashiri, O. Muthanna, F. Rashid. A randomized controlled trial of three aesthetic full-coronal restorations in primary maxillary teeth. *European J Paediatr Dent*. 2014; 15(2): 113-118.
- **Dr. Tarun Walia\***, Dr Vijay Prakash Mathur, Dr Jatinder Kaur Dhillon, Dr Gauri Kalra, Dr. Vartika Kathuria. Dentistry as a Profession in India: An overview for prospective students. *Libyan Dent J*. 2014; 4: 1-6.
- **Tarun Walia\***, Harpinder Singh Chawla, Krishen Gauba. Management of wide open apices in non vital permanent teeth with Ca(OH)<sub>2</sub> paste. *J. Clin Pediatr Dent*. 2000; 25(1): 51-56.
- **Walia T\***, Tewari A, Chawla HS, Goyal A. Effect on training school teachers on KAP and dental caries of 7-9 year old school children. *J Indian Soc Pedo Prev Dent*. 2000 6: 47-53.

#### ***Scientific papers accepted for publication***

- Alamoudi RA, **Walia T**, Debaybo D. Evaluation of the clinical performance of NuSmile® pedodontics Zirconia crowns in pulp treated primary teeth – 2 years follow up study. *European J Dent*.

#### ***Scientific papers accepted under review/publication***

- **Walia T**, Omnia TSO. Attitude and Practices of Paediatric Dentists towards Parental Guidance on Dental Trauma. (*Dent Traumatol*).

#### ***Abstracts published as conference proceedings (\* indicates presenter)***

- **T. Walia\***, M. Mohsen-Ziadhani, A. Amjad-Khayat. Comparative evaluation of tensile bond strength of various luting cements used for primary zirconia crowns. *Int J Paediatr Dent*. 2019 (S1) 115.
- **T. Walia\*** Retrospective evaluation of clinical performance of NuSmile® pedodontic zirconia crowns in pulp treated primary teeth – 2 years follow up study. *Int J Paediatr Dent*. 2017 (S2) 29.
- **T. Walia\***, R. Bashiri and F. Alaghband. Split mouth clinical study evaluating stainless steel crowns and primary zirconia crowns in pulp treated primary molars. *Int J Paediatr Dent* 2015; 25(S1): 26.
- **T. Walia\***, A. Salami, R. Bashiri, O. Muthanna. Randomized controlled trial comparing three techniques of full coronal restorations in primary maxillary incisors – 6 months results. *Int J Paediatr Dent* 2015; 23(S1): 33.
- **T. Walia\*** Comparison of root end closure technique in nonvital teeth using MTA & Ca(OH)<sub>2</sub> paste. *Int J Paediatr Dent* 2011; 21(S1): 108.

#### ***Chapter in Books***



- Textbook of Paediatric Dentistry – Principles and Practice, 3<sup>rd</sup> Edition. 2021. Publisher Elsevier Relx India Pvt Ltd. Chapter on Current Concepts in management of Avulsion.

### ***Research Grants***

- Received approval for internal research group grant as a Co-Investigator by Deanship of Graduate Studies and Research, Ajman University, UAE titled - Oral health-related early childhood quality of life (OH-ECQOL) and early childhood caries among preschool children in the United Arab Emirates. (Grant ID 5211561).
- Completed and closed internal research group grant by Deanship of Graduate Studies and Research, Ajman University, UAE titled - Evaluation of Non-Carious Interproximal Contact Areas in Primary Molars - A Multicentre Analysis. (Reference Number: P-F-H- 19-01-14)

### ***Research Supervision***

- Supervisor: MSc Thesis - Parental acceptance levels of Silver Diamine Fluoride (SDF) and Urinary fluoride output following SDF application on primary teeth.
- Co-supervisor: PhD Thesis - Mobile App to provide Sustained Anticipatory Guidance: Design, Development, Validation, User Perception, and Effectiveness. College of Dentistry, Sri Ramachandra Institute of Higher Education and Research, Chennai, India.
- Supervisor: UG Research Project - Pre and post salivary fluoride levels in paediatric patients following dental prophylaxis with fluoridated prophylaxis paste.
- Supervisor: UG Research Project - Comparative evaluation of two commercially available posterior zirconia pedodontic crowns in pulp treated primary molars – A Split Mouth Study.

### ***Editorial Board Member***

- Journal of Indian Society of Pedodontics and Preventive Dentistry
- Journal of South Asian Association of Pediatric Dentistry

### ***Reviewer in Scientific Journal***

- European Archives of Paediatric Dentistry
- International Journal of Paediatric Dentistry

## **E. Service and Administration**

### ***Appointments***

- Program Coordinator for Master of Science in Paediatric Dentistry, College of Dentistry, Ajman University, UAE.
- Member, Interview search committee, College of Dentistry, Ajman University, UAE.
- Member, Assessment and Continuous Improvement Committee, College of Dentistry, Ajman University, UAE.
- Member, College Research Ethical Committee, College of Dentistry, Ajman University, UAE.
- Member, Dental Material Purchase Committee, College of Dentistry, Ajman University, UAE.
- Member, Education Committee, College of Dentistry, Ajman University, UAE.
- Member, College Effectiveness Committee, College of Dentistry, Ajman University, UAE.

- Member, Library Committee, College of Dentistry, Ajman University, UAE.

### ***Organizing Abilities***

- On organizing board of Molar incisal hypo-mineralization management and treatment congress in Dubai, UAE from 15-19th March 2022.
- Organizing Chairman, Regional Meet of International Association of Paediatric Dentistry, March 1-3, 2017, Dubai, UAE.

### ***External connections and partnership, fund raising campaigns***

- Identified external research collaboration opportunities: liaison with corporate organizations (Procter and Gamble) for training and research opportunities.
- Involved Oral-B, an oral healthcare consumer-based company to support and raised funds in the designing and operation of Oral Hygiene room in MSc Pediatric Dentistry Clinics.
- Member, membership committee, board of International Association of Pediatric Dentistry since 2017.
- Member, Board of Trustees, European University College, Dubai Health Care City, UAE.
- Founding Member and Vice President of Emirates Pediatric Dentistry Club, Emirates Dental Society, United Arab Emirates.
- Regional Key opinion leader for professional oral health-based product companies such as Johnson & Johnson and Procter & Gamble.