

## **Professor Dr. G. Dave Singh DMD PhD DDSc**

Prof. Dave Singh is a US citizen who was born, educated and trained in England, UK. He holds three doctorates, including Doctor of Dental Medicine; a Ph.D. in Craniofacial Development, and a D.D.Sc. in Orthodontics. He was invited to relocate to the Center for Craniofacial Disorders, USA where he led a NIH-funded program of craniofacial/cleft lip and palate research. Currently, he is a Board Member of the American Sleep and Breathing Association, a member of the World Sleep Federation, an Academic Fellow of the World Federation of Orthodontists, and Fellow of the International Association for Orthodontics, where he was awarded prizes in 2005, 2013 and 2014. He has published over 200 articles and books in the peer-reviewed medical, dental and orthodontic literature, and has lectured in Australia, Asia, Europe, Africa and North America. Currently, Dr Singh is President of Vivos Therapeutics, Inc.

## **Education**

- D.D.Sc. Orthodontics, Dundee University, UK, 2000 Thesis entitled “Morphological components of Class III malocclusions investigated by geometric morphometrics.” Research using diagnostic biomodeling with finite element analysis, Procrustes superimposition and other 3-D geometric morphometric techniques
- Ph.D. Craniofacial Development , Bristol University, England, UK, 1992 Thesis entitled “Studies on the development of the palate”. Research using cellular, ultra-structural and biochemical analyses, including biostatistics
- D.M.D. Doctor of Dental Medicine. All aspects of clinical and pre-clinical training validated at the University of Puerto Rico, USA, 2004, based on original Degree in Dental Surgery, Newcastle University, England, UK, 1983

## **Experience**

- President, Vivos BioTechnologies, Inc. 2017-present, Cedar Crest, NM, USA
- CEO, BioModeling Solutions, Inc. 2007-2016, Beaverton, OR, USA

- Director of Continuing Education: 2007-2013, SMILE Foundation, Chatsworth, CA, USA
- Adjunct Professor: 2007, Portland State University, OR, USA
- Visiting Professor in Orthodontics: 2003-2004. University Sains Malaysia
- Associate Professor: 2001-2006, School of Medicine, University of Puerto Rico, USA
- Visiting Professor in Orthodontics: 1999, University of Michigan, USA.
- Visiting Professor: 1999-2001, University of Health Sciences, Antigua.
- Visiting Professor: 1998, University of Hawaii, USA.
- Visiting Professor in Orthodontics: 1998, Airlangga University, Indonesia
- Clinical Lecturer: 1996-2001, School of Dentistry, University of Dundee, UK
- Assistant Professor: 1994, School of Dentistry, University of Saskatoon, Canada
- Lecturer: 1988-1995, School of Medicine, University of Bristol, UK

## **Teaching Experience**

### **University of Puerto Rico Teaching Responsibilities:**

- Human Development – Medical students
- Structure and Development – Medical students
- Craniofacial Growth and Development – Dental Residents
- Advanced Oral Biology – Dental Residents
- Structure and Development – Dental students
- Introduction to Research – Biology students

### **University of Dundee Teaching responsibilities: Discretionary Teaching Award, 1999**

- BDS Oral Biology: Lectures, seminars and practical demonstrations to dental students, including student assessments and examinations.
- BDS Oral Radiology: Seminars and practical demonstrations to clinical dental students.
- BMSc Honors students: Supervision of research projects, dissertations and presentations

## **University of Bristol: Teaching responsibilities: Discretionary Awards; 1992, 1989**

- BDS Oral Biology (Unit Director): Lectures, tutorials, seminars and demonstrations to pre-clinical Dental (DS2), including student assessments and examinations. The range of topics taught included topographical anatomy, craniofacial development, oral histology and radiographic anatomy.
- BDS Oral Biology: Lectures, tutorials, seminars and demonstrations to clinical dental students (DS3). Supervision of CAL projects in Oral Histology.
- MBBS Craniofacial Anatomy (Coordinator and Examiner): The range of topics taught included topographical and radiographic Head and neck anatomy for second year Medical students (MD2)
- BSc3 Anatomical Science (Coordinator and Examiner): Seminars and tutorials, including student assessments and examinations. Supervision of undergraduate research projects.
- BSc1 Anatomical Science (Coordinator and Examiner). Lectures and demonstrations, including student assessments and examinations.
- University of Newcastle: Teaching responsibilities:
- BDS Oral Biology: Lectures and tutorials to pre-clinical Dental (DS2), including student assessments and examinations.

## **Graduate Teaching**

### **PACE Organizer/Provider:**

- Pneumopedics, epigenetic orthodontics and pediatrics
- General doctors, dentists and orthodontists
- Academy of General Dentistry, USA 2007-2019

### **Graduate Course Organizer:**

- Human Development
- University of Puerto Rico, USA 2003

### **Graduate Tutor:**

- Craniofacial Development for Dental Residents
- Advanced Oral Biology for Dental Residents
- University of Puerto Rico, USA 2001-2006

### **Postgraduate Tutor:**

- MFDS and FDS Dental graduates
- University Examinations Postal Institute, UK 1992-2001

### **Course Organizer and Tutor:**

- Medical Sciences for Dentists and Dental Residents
- University of Bristol, UK 1992-1994

### **Postgraduate Tutor:**

- MGDS Dental graduates and FRCS Medical graduates
- University of Bristol, UK 1989-1990

### **Research Supervision:**

- Daniel Levy, MS (First Prize, AAO meeting, 2004)
- University of Puerto Rico, 2002-2006

### **Teaching Grants**

- Singh GD. University Health Sciences, Antigua. Visiting Professorship in Medical Embryology (1999-2001).
- Singh GD. Rotary International Professor. "Teaching Dentistry in Indonesia" (1998).

## **Honors & Recognition**

### **Professional:**

- Board Member, American Sleep and Breathing Academy, USA 2016-2018

- Table Clinic Prize: International Association for Orthodontics, USA, 2005, 2013, 2014.
- Chair, Research Committee, American Academy of Sports Dentistry, USA, 2010-2013
- Advisory Board Member, Carrington College, Portland, OR, USA, 2008-2012
- Academy of Dental Sleep Medicine: Education and Curriculum Committee, USA, 2007
- Consultant, National Institutes of Health (NIDCR), Bethesda, USA, 2005

### **Academic:**

- Principal Investigator: NIH Research Grant “Growth guidance of craniofacial microsomnia following distraction osteogenesis” (2002-2004)

### **Continuing Education Courses**

- Advances in the modeling of form: Clinical and computational interfaces. Moss Symposium, Columbia University, NY (2003)
- Ultrasound and Diagnostic Imaging Conference, University of Este, PR (2003)
- Embryology, Imaging and Education Conference, National Museum of Health and Medicine, Washington, DC (2003)
- Health Insurance Portability and Accountability Act workshop (2003)
- Human Participant Protections Education for Research Teams, NIH (2002)
- Clinical Research Training symposium, University of Puerto Rico (2002)
- Professional and Academic Development, Faculty Development Program, University of Puerto Rico (2002)
- Mentoring-Teaching, Faculty Development Program, University of Puerto Rico (2002)
- Observation-Feedback, Faculty Development Program, University of Puerto Rico (2002)
- Handling Problems, Faculty Development Program, University of Puerto Rico (2002)

### **Professional Societies and Memberships (past and present)**

- American Sleep and Breathing Association
- World Association of Sleep Medicine
- American Academy of Dental Sleep Medicine
- National Sleep Foundation, USA
- World Federation of Orthodontists (Academic Fellow)
- International Association for Orthodontics (Senior Instructor)
- American Association of Orthodontists
- Eurasian Orthodontic Society
- American Association for Functional Orthodontics
- American Cleft Palate Craniofacial Association
- American Academy of Craniofacial Pain
- Craniofacial Society of Great Britain
- British Dental Association
- British Society for Dental Research
- International Association for Dental Research

### **Professional Activities**

- Keynote Speaker: Holistic Dental Association, San Diego, USA (2018)
- Invited Speaker: Midwestern University, Glendale, USA (2018)
- Keynote Speaker: American Sleep and Breathing Academy, Phoenix, USA (2017 and 2018)
- Keynote Speaker: Edmonton District Dental Society, Edmonton, Canada (2017)
- Keynote Speaker: American Academy of Cosmetic Dentistry, Las Vegas, USA (2017)
- Keynote Speaker: North American Dental Sleep Medicine Symposium, Florida, USA (2017)
- Invited Speaker: OMICS International Conference on Sleep Disorders, Atlanta, USA (2016)
- Invited Speaker: University of Texas Health Science Center, Houston, US (2016)
- Invited Speaker: Seoul National University, Seoul, South Korea (2016)
- Invited Speaker: Louisiana State University, Dept. of Neurology and Sleep Medicine, Shreveport, USA (2015, 2016 and 2017)
- Invited Speaker: Pediatric OSA Symposium, University of Tennessee, USA (2015)

- Invited Speaker: OMICS Annual Summit on Sleep Disorders, San Francisco, USA, (2015)
- Invited Speaker: Atlas Orthodontists Annual Meeting, Seattle, USA (2013)
- Keynote Speaker: American Academy of Oral Systemic Health, St Louis, USA (2014)
- Invited Speaker: OMICS Dental and Oral Health Conference, Dubai, UAE (2014)
- Editorial Board: Austin Journal Sleep Disorders (2014)
- Keynote Speaker: Asia-Pacific Orthodontic Conference, New Delhi, India (2012)
- Invited Speaker: University of Technology, Dept. of Orthodontics, Malaysia (2012)
- Keynote Speaker: American Academy of Sports Dentistry, USA (2010)
- Keynote Speaker: International College of Craniomandibular Orthopedics, Tempe, USA (2010)
- Keynote Speaker: American Academy of Craniofacial Pain, Salt Lake City, USA (2010)
- Keynote Speaker: International Association for Orthodontics, Kentucky, USA (2009 and 2012)
- Keynote Speaker: Appliance Therapy Practitioners Association, Las Vegas, USA (2008-2012)
- Referee: International Journal for Orthodontics (2008-2013)
- Referee: Medical Engineering and Physics (2008)
- Referee: Cleft Palate Craniofacial Journal (2007-2014)
- Referee: Australian Orthodontic Journal (2007-2009)
- Keynote Speaker: American Academy of Gnathologic Orthopedists, San Diego, USA (2007)
- Invited Speaker: RealKFO Orthodontic Meeting, Germany (2007)
- Keynote Speaker: Facial Orthotropics, Tokyo, Japan (2007)
- Referee: Biomedicine, Biochemistry and Biotechnology (2006)
- Program Review Committee: MICCAI “Craniofacial Image Analysis for Biology, Clinical Genetics, Diagnostics and Treatment”, Denmark (2006)
- Keynote Speaker: TMJ and Sleep Therapy Centre, San Diego, USA (2005 and 2007)
- Referee: Surgical Radiologic Anatomy (2005)
- Referee: Acta Odontologica Scandinavica (2005)
- External Examiner: University of Adelaide, Australia (Ph.D. thesis, 2004)

- Referee: American Journal Orthodontics Dentofacial Orthopedics (2000-2008)
- Referee: Angle Orthodontist (2001-2014)
- Referee: European Journal of Orthodontics (2002)
- Referee: Journal of Orthodontics (2001)
- Referee: Orthodontics and Craniofacial Research (2000, 2001)
- Referee: Journal of Dental Research (1997, 2001)
- Referee: Journal of Anatomy (1996, 2001)
- Referee: Arthritis Care and Research (2000)
- Examiner: Statutory Examiner: General Dental Council, UK (1993, 2000)
- Referee: Archives of Oral Biology (1998)
- Examiner: Royal College of Surgeons of England (1992-1997)
- External Examiner: University of Wales (MScD Periodontology, 1992).

## Research Support

### Extramural

- NIH-MBRS-SCORE Program, USA. PI: "Growth guidance of craniofacial microsomnia following distraction osteogenesis" (2002-2004).
- Graber Professorship Fund. PI: "Dentofacial asymmetry of the craniofacial complex in monozygotic and dizygotic twins with orofacial clefting" 1999. (Collaborator: Dr JA McNamara Jr., USA)
- Tattersall Scholarship (UK). PI: "Deformations of the midface and mandibular morphologies in subjects with Class III malocclusions" (1996-1998).
- Tayside Aid (UK). PI: "Cleft Lip and Palate mission to Nusa Tenggara Timur islands" (1998).
- Wellcome Trust (UK). PI: "Deformations of the midface and mandibular morphologies in subjects with Class III malocclusions" "Pseudo-Class III Malocclusions in patients with cleft lip and palate or isolated cleft palate" (1996-1998).
- Balcraig Foundation (UK). PI: "Pseudo-Class III Malocclusions in patients with cleft lip and palate: A geometric morphometric investigation" (1998).
- Nuffield Foundation (UK). PI: "Thin-plate Spline analysis of the mandible in prepubertal craniofacial microsomnia subjects: An assessment of



- post-operative stability” 1998. (Undergraduate Research Bursary Scheme: AD Hay).
- University of Hawaii, USA: Seed Fund PO850823. PI: “Finite Element Morphometry of the Midfacial Complex in Subjects with Angle’s Class Malocclusions” 1998. (Collaborator: Dr. S Lozanoff.)
  - Anonymous Charitable Trust (UK). PI: “Localisation of morphological abnormalities associated with craniofacial microsomia” 1997-1998.
  - Physical Anomalies, Mental Retardation and Growth Studies Committee (Indonesia). PI: “Localisation of morphological abnormalities associated with orofacial clefting” 1997. (Collaborators: Dr. W Hardjowasito and Dr. T Agusni.)
  - DTH NHS Trust (UK). PI: “Facial morphology in patients treated with Dentofacial Orthopaedics” 1997.
  - European Orthodontic Society (UK). “Specification of orofacial clefting phenotype derived from morphometric analysis of parental cephalograms” 1997. (Collaborator: Dr. PA Mossey.)
  - Carnegie Trust (UK). PI: “Finite Element Morphometry of the Midfacial Complex in Subjects with Angle’s Class Malocclusions” 1997.
  - Medical Research Council (Canada). PI: “Predictive modelling of craniofacial morphology resulting from Class III orthodontic treatment” 1996. (Collaborator: Dr. S. Lozanoff.)
  - Barclay-Smith Travelling Fund: Anatomical Society of Great Britain and Ireland (UK) 1993 and 1996.
  - Health Services Utilization and Research Commission (Canada). PI: “Deformations of the cranial base in subjects with Class III malocclusion” (1994-1995). (Collaborator: Dr. S. Lozanoff.)
  - University of Wales (UK) 1992. (Collaborator with Dr. BJ Moxham)
  - British Society for Developmental Biology: Oxford University, UK (1991).

### **Intramural**

- NIH-MBRS-RISE Program (University of Puerto Rico, USA). PI: “Investigating growth guidance patterns in patients with Class II malocclusions” 2001-2002.
- NIH-RCMI Faculty Development in Research (University Puerto Rico, USA). PI: “Investigating developmental mechanisms associated with Facial Orthotropics” 2002.

- University of Puerto Rico, USA: Seed Fund. PI: “3-D digital surface photogrammetry of changes in children treated for craniofacial microsomia: Phase II” 2001.
- NIH-RCMI Program (University Puerto Rico, USA). PI: “3-D digital surface photogrammetry of changes in children treated for craniofacial microsomia: Phase I” 2001.

## **Publications**

### **Books and Chapters Published**

- Singh GD and Krumholtz J. Epigenetic Orthodontics in Adults, Appliance Therapy Group, USA, 2009. ISBN: 9780984054701
- Singh GD and Chandrashekar R. Breath of life: Complexity and heterogeneity in the integration of etiologic components associated with sleep disordered breathing. In: Snoring: Symptoms, Causes, Diagnosis and Treatment. LeFebvre E and Moreau R (eds.), Nova Science Publishers, New York, USA, pp.109-126, 2009. ISBN: 978-1-60876-215-6.
- Singh GD, Rozihan MH, Nidzam MTM, Shamim AK, Samsudin AR, Suhaimi D. 3-D reconstruction of nasopharyngeal airways in Malaysian subjects. IFMBE Proc. Ibrahim, Abu Osman, Usman, Kadri (Eds.) Vol. 15, pp. 7-10, 2007. ISBN 978-3-540-68016-1.
- Singh GD. On Growth and Treatment: the Spatial Matrix hypothesis. In: Growth and treatment: A meeting of the minds. McNamara JA Jr (ed.) Vol 41, Craniofacial Growth Series, Ann Arbor, USA, 2004, 197-239.
- Clark WJ. Twin Block Functional Therapy 2nd Edition. Chaps. 23 and 24 “Morphometric Analysis” Singh GD, Harcourt Publishers, London. ISBN: 0-7234-3170-1 (2002)
- Chaplain MAJ, Singh GD and McLachlan JC (Editors) “On Growth and Form: Spatio-Temporal Patterning in Biology”. John Wiley and Sons Publishers, England. ISBN: 0-471-98451-5 (1999).

### **Refereed Journal Papers Published**

- Singh GD. Physiologic remodeling of the upper airway: Pneumopedics. J Sleep Disord Treatment Care, 2018 (in press).

- Singh GD, Kraver M, Chernyshev O. Restoration of sleep using a novel biomimetic protocol for adult OSA: Clinical case report. *Cranio*. 2018 Feb 15:1-4. doi: 10.1080/08869634.2018.1425235. [Epub ahead of print]
- Singh GD, Cress SE. Biomimetic oral appliance therapy in adults with mild to moderate obstructive sleep apnea using combined maxillo-mandibular correction. *J Sleep Disord Mang* 3:014, 3(1), 1-7, 2017.
- Singh GD and Kim KY. Facial enhancement using biomimetic oral appliance therapy in adults. *Dent Oral Craniofac Res* 2(4):313-317, 2016. doi: 10.15761/DOCR.1000168
- Heit T, Sebastian J, Singh GD. A novel combined protocol for the resolution of severe obstructive sleep apnea. *J Sleep Disord Ther* 5(5), 251-254, 2016.
- Jung SC, Singh GD, Resolution of chronic rhino-sinusitis using biomimetic oral appliance therapy. *Open J Clin Med Case Rep*. 2(4):1082, 2016.
- Singh GD, Griffin TM, Cress SE. Biomimetic oral appliance therapy in adults with severe obstructive sleep apnea. *J Sleep Disord Ther* 5(1); 1-5, 2016. Doi:10.4172/2167-0277.1000227.
- Singh GD, Heit T, Preble D, Chandrashekhar R. Changes in 3D nasal cavity volume after biomimetic oral appliance therapy in adults. *Cranio* 34(1):6-12, 2016. doi: 10.1179/2151090315Y.0000000001. Epub 2015 Jan 27.
- Liao F, Singh GD. Resolution of Sleep Bruxism using Biomimetic Oral Appliance Therapy: A Case Report. *J Sleep Disord Ther* 4: 204. 2015. doi:10.4172/2167-0277.1000204
- Singh GD, Griffin TM, Chandrashekhar R. Biomimetic oral appliance therapy in adults with mild to moderate obstructive sleep apnea. *Aust J Sleep Dis*, 1(1);5, 2014.
- Singh GD and Chapman DC. Craniofacial changes after combined atlas-orthogonal and biomimetic oral appliance therapy. *Annals Vert Sub Res*. 4, 112-118, 2014.
- Singh GD, Heit T, Preble D. Changes in 3D midfacial parameters after biomimetic oral appliance therapy in adults. *J Ind Orthod Soc*. 48(2), 104-108, 2014.
- Singh GD and Cress SE. Craniofacial Enhancement using a Biomimetic Oral Appliance: Case Report. *Dent Today*, 329(12):92-92, 2013.

- Chapman DC and Singh GD. Combined effect of a biomimetic oral appliance and atlas orthogonist cervical adjustment on leg lengths in adults. *Annals Vert Sub Res.* 46-50, 2013.
- Singh GD and Callister JD. Use of a maxillary oral appliance for the resolution of obstructive sleep apnea. *J Cranio Sleep Prac.* 31(3):171-179, 2013.
- Singh GD, Ataii P. Combined DNA appliance™ and Invisalign™ therapy without interproximal reduction: A preliminary case series. *J Clin Case Rep.* 3(5), 2013.
- Harris WG, Singh GD. Resolution of ‘gummy smile’ and anterior open bite using the DNA appliance™: Case Report. *J Amer Orthod. Soc.* 13(4):30-34, 2013.
- Singh GD, Cress SE. Case presentation: Effect of full mouth rehabilitation and oral appliance therapy on obstructive sleep apnea. *Dialogue,* 2, 18-20, 2013.
- Utama J, Singh GD. Effect of the DNA appliance™ on migraine headache: Case report. *Int J. Orthod.* 24(1); 45-49, 2013.
- Singh GD, Cress SE, McGuire MK, Chandrashekhar R. Case report: Effect of mandibular tori removal on obstructive sleep apnea parameters. *Dialogue,* 1, 22-24, 2012.
- Singh GD, Wendling S, Chandrashekhar R, Mitani Y. Case Report: Midfacial development in the management of an adult patient with obstructive sleep apnea. *J Orthod Prac.* 8, 71-76, 2011. [article in Japanese]
- Singh GD, Wendling S, Chandrashekhar R. Midfacial development in adult obstructive sleep apnea. *Dent. Today,* 30(7), 124-127, 2011.
- Williams DE, Lynch JE, Doshi V, Singh GD, Hargens A. Bruxism and temporal bone hypermobility in patients with multiple sclerosis. *Cranio* 29(3), 1-9, 2011.
- Singh GD, Mitani Y, Kitafusa Y. Epigenetic orthodontics (1). *J Orthod Prac.* 2, 11-29, 2011. [article in Japanese]
- Singh GD, Mitani Y, Kitafusa Y. Epigenetic orthodontics (2). *J Orthod Prac.* 3, 11-30, 2011. [article in Japanese]
- Singh GD, Wendling S, Chandrashekhar R, Mitani Y. Case Report: Midfacial development in the management of an adult patient with obstructive sleep apnea. *J Orthod Prac.* 4, 2011. [article in Japanese]

- Santiago PE, Singh GD, Yáñez MA, Dietrich RA, García P, Grayson BH, McCarthy, JG. Restitution of the temporomandibular joint in patients with craniofacial microsomia after multiplanar mandibular distraction: Assessment by magnetic resonance imaging. *Semin Orthod.* 17(3), 186-196, 2011.
- Singh GD. Epigenetic orthodontics: Developmental mechanisms of functional (formational) orthodontic appliances. *J Amer Orthod Soc.* 10(6): 16-26, 2010.
- Singh GD. On the Etiology and Significance of palatal and mandibular tori: Guest Editorial. *Cranio* 2010, 28(4)213-15.
- Mitani Y, Banabilh SM, Singh GD. Craniofacial changes in patients with Class III malocclusion treated with the RAMPA system. *Int J Orthod Milwaukee.* 2010;21(2):19-25.
- Celenk M, Farrell ML, Eren H, Kumar K, Singh GD, Lozanoff S. Upper airway detection in cone beam images. *J Xray Sci Technol.* 18(2):121-135, 2010.
- Singh GD, Lipka G. Case Report: Introducing the Wireframe DNA appliance™. *J Am Acad Gnathol Orthop.* 26(4); 8-11, 2009.
- Banabilh SM, Suzina AH, Mohamad H, Dinsuhaimi S, Samsudin AR, Singh GD. Assessment of 3-D nasal airway morphology in Southeast Asian adults with obstructive sleep apnea using acoustic rhinometry. *Clin Oral Investig.* 2010;14(5):491-498. Epub 2009 Sep 30.
- Tunali S, Farrell ML, Doll S, Giesel F, Lozanoff BK, Singh GD, Lozanoff S. 2009. SURFviewer: A multiple format exchange rendering system for viewing computerized anatomical models. *Surgical Radiology and Anatomy*, 2009 (submitted).
- Singh GD, Maher GJ, Padilla RR. Customized mandibular orthotics in the prevention of concussion/mild traumatic brain injury in football players: A preliminary study. *Dental Traumatol.* 2009, 25(5):515-21. Epub 2009 Jul 9.
- Singh GD, Medina L, Hang WM. Soft tissue changes using Biobloc appliances: Geometric morphometrics. *Int J Orthod.* 20:29-34, 2009.
- Singh GD, Keropian B, Pillar G. Effects of the Full Breath Solution appliance for the treatment of obstructive sleep apnea: A preliminary study. *Cranio.* 27(2):109-117, 2009.
- Banabilh SM Suzina AH, Dinsuhaimi S, Samsudin AR, Singh GD. Dental arch morphology in South East Asian adults with obstructive sleep

- apnoea: Geometric morphometrics. *J Oral Rehab.* 36: 184–192, 2009.
- Banabilh SM Suzina AH, Dinsuhaimi S, Singh GD. Craniofacial obesity in patients with obstructive sleep apnea. *Sleep Breath.* 13(1):19-24, 2009.
  - Singh GD, Abramson M. Effect of an intra-oral nasal dilation appliance on 3-D nasal airway morphology in adults. *Sleep Breath.* 12(1):69-75, 2008.
  - Singh GD. Digital diagnostics: Three-dimensional modelling. *Br J Oral Maxillofac Surg.* 46(1):22-26, 2008.
  - Banabilh SM Suzina AH, Dinsuhaimi S, Singh GD. Cranial base and airway morphology in adult Malays with obstructive sleep apnea. *Aust Orthod J.* 23: 89-95, 2007.
  - Singh GD, Levy-Bercowski D, Yañez MA, Santiago PE. Three-dimensional facial morphology following surgical repair of unilateral cleft lip and palate in patients after nasoalveolar molding. *Orthod Craniofac Res.* 10(3): 161-6, 2007.
  - Singh GD, Olmos S. Use of a sibilant phoneme registration protocol to prevent upper airway collapse in patients with TMD. *Sleep Breath.* 11(4): 209-216, 2007.
  - Singh GD, García AV, Hang WM. Evaluation of the posterior airway space following Biobloc therapy: Geometric morphometrics. *Cranio* 25(2): 84-89, 2007.
  - Banabilh SM, Rajion ZA, Samsudin AR, Singh GD. Facial soft tissue features assessed with finite element analysis. *Int J Orthod.* 17(4):17-20, 2006.
  - Banabilh SM, Rajion ZA, Samsudin AR, Singh GD. Dental arch shape and size in Malay schoolchildren with Class II malocclusion. *Aust Orthod J.* 22:99-103, 2006.
  - Lopez Del Valle LM, Singh GD, Feliciano N, Machuca M Del C. Associations between a history of breast feeding, malocclusion and parafunctional habits in Puerto Rican children. *PR Health Sci J.* 25(1):31-34, 2006.
  - Singh GD Maldonado L, Thind BS. Changes in the soft tissue facial profile following orthodontic extractions: a geometric morphometric study. *Funct. Orthod.* 22(1):34-40, 2005.

- Singh GD, Levy-Bercowski D, Santiago PE. 3-D effects of nasoalveolar molding in patients with orofacial clefts: geometric morphometrics. *Cleft Palate Craniofac. J.* 42(4), 403-409, 2005.
- Singh GD, Belfor TR. Treating malocclusions and improving orofacial form and function in adults. *J Am Acad Gnathol Orthop*, 22(1), 14-17, 2005.
- Santiago PE, Grayson BH, Degen M, Brecht LE, Singh GD, McCarthy JG. The effect of an early Le Fort III surgery on permanent molar eruption. *Plas Reconstr Surg.* 115(2), 423-427, 2005.
- Singh GD, Diaz J, Busquets-Vaello C, Belfor TR. Soft tissue facial changes following
- treatment with a removable orthodontic appliance in adults. *Funct. Orthod.*, 21(3), 18-23, 2004.
- Belfor TR and Singh GD. Developing dental arch symmetry using the Homeoblock device. *Int J Orthod.* 15(3), 27-30, 2004.
- Belfor TR and Singh GD. Developing facial symmetry using an intra-oral device. *J. Cosmetic Dent.* 20(2), 76-80, 2004.
- Singh GD, Rivera-Robles J, de Jesus-Vinas J. Longitudinal craniofacial growth patterns in patients with orofacial clefts: geometric morphometrics. *Cleft Palate Craniofac. J.* 41(2):136-143, 2004.
- Singh GD, Kutcipal E, and McNamara JA Jr. Deformations of the midfacial complex in twins with orofacial clefts. *Cleft Palate Craniofac. J.* 40(4), 403-408, 2003.
- Singh GD and Clark WJ. Soft tissue morphometry of subjects with Class II division 1 malocclusions treated using Twin Block appliances: finite-element scaling analysis. *Euro J Orthod.* 25(3), 225-230, 2003.
- Singh GD and Thind BS. Effects of the Headgear-Activator Teuscher Appliance in the treatment of Class II Division 1 malocclusion: a geometric morphometric study. *Orthod. Craniofacial Res.* 6: 88-95, 2003.
- Agrait EM, Levy D, Gil M and Singh GD. Repositioning an inverted maxillary central incisor using a combination of re-Implantation and orthodontic movement: A clinical case report. *Pediatr Dent.* 25(2), 157-160, 2003.
- Singh GD and Hodge MR. Bimaxillary morphometry in patients with Class II division 1 malocclusion treated with Twin Block appliances. *Angle Orthod.* 72(5), 402-409, 2002.

- Singh GD. Morphospacial analysis of soft-tissue profile in patients with Class II division 1 malocclusion treated using Twin Block appliances: geometric morphometrics. *Orthod Craniofac Res.* 5(1), 38-50, 2002.
- Cerajewska TL and Singh GD. Morphometric Analysis of the Mandible in Prepubertal Craniofacial Microsomia Patients Treated with an Inverted-L Osteotomy. *Clin Anat.* 15(2), 100-107, 2002.
- Singh GD and Clark WJ. Localization of mandibular changes in patients with Class II division 1 malocclusions treated using Twin Block appliances: finite-element modeling. *Am J Orthod Dentofacial Orthop.* 119(4), 419-425, 2001.
- Sjamsudin J, David DJ, Singh GD. An Indonesian child with orofacial duplication and neurocristopathy anomalies: Case Report. *J Craniofac Surg.* 29(4), 195-197, 2001.
- Cerajewska TL and Singh GD. Changes in soft-tissue facial profile of craniofacial microsomia patients: geometric morphometrics. *Int J Adult Orthod Orthog Surg.* 16(1), 61-71, 2001.
- Hay AD, Ayoub AF, Moos KF and Singh GD. Euclidean Distance Matrix Analysis of Surgical Changes in Prepubertal Craniofacial Microsomia Patients Treated with an Inverted L Osteotomy. *Cleft Palate Craniofac. J.* 37(5), 497-502, 2000.
- Hay AD and Singh GD. Mandibular Transformations in Prepubertal Patients following Treatment for Craniofacial Microsomia: Thin-plate spline analysis. *Clin. Anat.* 13(5): 361-372, 2000.
- Singh GD, McNamara JA Jr. and Lozanoff S. Comparison of Mandibular Morphology in Korean and European-American Children with Class III Malocclusions using Finite-Element Morphometry. *J. Orthod.* 27(2): 135-142, 2000.
- Singh GD, McNamara JA Jr. and Lozanoff S. Midfacial morphology of Koreans with Class III malocclusions investigated with finite-element scaling analysis. *J. Craniofac. Genet. Devel. Biol.* 20(1): 10-18, 2000.
- Singh GD, McNamara JA Jr. and Lozanoff S. Allometry of the cranial base in Prepubertal Korean subjects with Class III Malocclusions. *Finite-Element Morphometry. Angle Orthod.* 69(5): 507-514, 1999.
- Singh GD and Hay AD. Morphometry of the Mandible in Prepubertal Craniofacial Microsomia Patients following an Inverted L Osteotomy. *Int. J. Adult Orthod. Orthog. Surg.* 14(3): 229-235, 1999.



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