

**Curriculum Vitae  
2018**

**Name:** Juan Martin Palomo

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**Education:** Diplomate, American Board of Orthodontists  
M.S.D. Department of Orthodontics,  
Case Western Reserve University School of Dental Medicine,  
Cleveland, OH, 1995 -1997  
Certificate in Orthodontics , Department of Orthodontics,  
Case Western Reserve University School of Dental Medicine,  
1995 -1997  
D.D.S. Universidade Estadual de Ponta Grossa (UEPG) –  
School of Dentistry, 1989 - 1993

**Clinical Experience**

- 1998 - Pres. Private Practice Limited to Orthodontics and Craniofacial Orthopedics.  
Cleveland, OH.  
1997 - 1998 Private Practice Limited to Orthodontics and Craniofacial Orthopedics.  
Curitiba, PR - Brazil.  
1993 - 1995 Private Practice as General Dentist. Curitiba, PR - Brazil.

**Academic Appointments:**

- 2015 – Pres. Tenured Professor, Department of Orthodontics, Case Western Reserve  
University School of Dental Medicine, Cleveland, OH.  
2007 – 2015 Tenured Associate Professor, Department of Orthodontics, Case Western  
Reserve University School of Dental Medicine, Cleveland, OH.  
2010 - 2015 Visiting Professor, Department of Orthodontics, University of Belgrade,  
Serbia.  
2001 – Pres. Senior Research Fellow - Bolton-Brush Growth Center, Cleveland - OH.  
2000 – 2007 Assistant Professor (Tenure Track), Department of Orthodontics, Case  
Western Reserve University School of Dental Medicine, Cleveland, OH.

- 1999 – 2000 Assistant Professor (Non-Tenure Track), Department of Orthodontics, Case Western Reserve University School of Dental Medicine, Cleveland, OH.
- 1998 – 1999 Visiting Assistant Professor, Department of Orthodontics, Case Western Reserve University School of Dental Medicine, Cleveland, OH.
- 1997 – 1998 Assistant Professor of Radiology, School of Dentistry, UNIPAR Umuarama, PR – Brasil.
- 1997 – 1998 Assistant Professor of Orthodontics, School of Dentistry, UNIPAR Umuarama, PR – Brasil.
- 1997 – 1998 Assistant. Professor, Graduate Pediatric Dentistry, Braz. Dent. Soc., Ponta Grossa, PR - Brasil

### **Current Leadership Appointments**

- 2009 – Present Program Director of Orthodontics in the Case Western Reserve University School of Dental Medicine.
- 2004 – Present Director, Craniofacial Imaging Center, Case Western Reserve University School of Dental Medicine.
- 2018 – Present Member of the AAO task force to create guidelines for orthodontics regarding obstructive sleep apnea.
- 2015 – Present Associate Editor - American Journal of Orthodontics and Dentofacial Orthopedics – Techno Bytes Section
- 2016 – Present Member of American Association of Orthodontists (AAO) Council on Scientific Affairs (COSA)
- 2014 - Present Member of American Association of Orthodontists Foundation (AAOF) Planning and Awards Review Committee (PARC)
- 2013 - Present Commission on Dental Accreditation (CODA) Site Visitor
- 2013 - Present American Board of Orthodontics (ABO) University Advocate
- 2006 - Present Primary Advisor for the Great Lakes Science Center on the Permanent Medical Imaging Exhibit
- 2005 - Present American Dental Association (ADA) Standards Committee on Dental Informatics [SCDI] Working Groups 12.1- Application of the DICOM Standard in Dentistry and 11.6 - Integration of Orthodontic Standards
- 2003 – Present Director, Adult Orthodontics, Case Western Reserve University School of Dental Medicine, Department of Orthodontics.
- 2004 – Present Clear Aligners in Orthodontics Director, Didactic, Clinical, and Certification for DMD students and graduate residents. Case Western Reserve University School of Dental Medicine.

**Past Leadership Appointments**

2014 – 2018	Member of American Association of Orthodontists (AAO) Committee on Technology (CTECH)
2014 - 2018	Chair of GAC-Dentsply Graduate Research Awards Committee
2014 – 2016	Chair of CWRU Faculty Senate Nominating Committee
2014 – 2016	Chair of American Association of Orthodontists (AAO) Committee on Technology (CTECH)
2012 - 2015	Director of Craniofacial Biology Group in the International Association of Dental Research (IADR)
2014	Guest Editor in Chief - Seminar in Orthodontics – Cone Beam CT for the Orthodontist
2013 – 2014	Chair of Subcommittee on HIPAA electronic transfer for American Association of Orthodontists (AAO) Committee on Technology (CTECH)
2013 – 2014	American Board of Orthodontists (ABO) Consultant on Technology and Electronic Records
2012 – 2013	American Association of Orthodontists (AAO) Member Website Committee.
2013	Great Lakes Association of Orthodontists (GLAO) Member Website Committee.
2010 – 2012	AAO-AAOMR Special Task Force Committee member on use of CBCT in Orthodontics. (Published in TripleO journal)
2010 – 2012	President of Omicron Kappa Upsilon Cleveland Chapter
2006 – 2010	Director of the Craniofacial Imaging Prequel Course (1 week) – to first year residents in Oral Surgery, Orthodontics, Pediatric Dentistry, and Periodontics.
2010 – 2011	Chair of School of Dental Medicine Graduate Studies Committee
2009 – 2010	President Elect of Omicron Kappa Upsilon Cleveland Chapter
2008 – 2009	Vice President of Omicron Kappa Upsilon Cleveland Chapter
1998 – 2003	Clinic Director, Department of Orthodontics, Case Western Reserve University School of Dental Medicine, Department of Orthodontics.

## **Honors and Awards**

Balkan Stomatological Society (BaSS) - Thessaloniki, Greece - 2017.

When static meets dynamic: comparing CBCT and acoustic reflection for upper airway analysis.

Mentoring: Ioannis Tsolakis

**Research Award: 1<sup>st</sup> Place Prize.**

GAC GCARE University Research Award Competition

Mentoring: Mohamed Bazina

Project: Accuracy and Reliability of Dolphin 3D Voxel Based Superimposition

December 2015

Faculty of Medicine & Dentistry 75th Anniversary Award

University of Alberta, Edmonton, Alberta, Canada

Mentoring: Dena Sawchuk (University of Alberta)

Project: Diagnostic methods for assessing maxillary skeletal and dental transverse deficiencies: A systematic review.

Award; \$7,000.00

December 2015.

Charley Schultz Resident Scholar Award

American Association of Orthodontists

Mentoring: Carolina Morsani Mordente (PUC-Minas, Brazil)

Project: Volume Analysis of Airway and Cleft Palate after Rapid Maxillary Expansion.

March 2013.

First Place Research Award

A Method to Compare Relative CBCT density in the Mandible

H.M.I. Horton, J.M. Palomo, R.J. Jurevic, M.G. Hans

Great Lakes Association of Orthodontists - Annual Meeting

Indianapolis, IN - October 2012

Second Place Research Award

Case Western Reserve University Transverse Analysis- Clinical Applications

G. Copeland, M.G. Hans, M. Valiathan, A. Hernandez, J.M. Palomo

Great Lakes Association of Orthodontists - Annual Meeting

Indianapolis, IN - October 2012

Sanifill Award First Place - Scientific Paper - Section of Orthodontics and Pediatric Dentistry

Evaluation of Mandibular Changes after RME in Cleft Patients

Cardinal, L, Bartolomeo, F., Figueiredo, D., Oliveira, D., Palomo, J.M.

28th Meeting of Brazilian Society of Dental Research (SBPqO)

September 3-6, 2011

Águas de Lindóia - SP

Ohio Schools Boards Association OSBA Business Honor Roll - 2011  
Cuyahoga Valley Career Center

Balkan Stomatological Society (BaSS) - Thessaloniki, Greece - April 2010.  
Three Dimensional Airway Volume Changes After Extractions  
Stefanovic N, El H, Chenin D, Palomo JM.

**Research Award: 1<sup>st</sup> Place Prize.**

Research ShowCase - Case Western Reserve University - April 2010  
Utilization of Cone Beam CT Imaging To Volumetrically Assess Alveolar Cleft Defects.  
Quereshy, F; Barnum, G; Palomo, M; Demko, C; Horan, M.

**Research Award: 1<sup>st</sup> Place Prize.**

Beaumont School – Cleveland Heights, OH.

**Outstanding Science Mentor Award**

“Why sleeping beauty doesn’t snore - A 3D analysis of the airway in snoring patients”.

For mentorship of student Aiste Degenesis, whose project won:

**Northeastern Ohio Science and Engineering Fair (NEOSEF):** (Cleveland, Ohio) -  
March 10-13, 2008

Health/Medicine Award – 1<sup>st</sup> Place – Gold Medal

Cleveland Clinic Department of Biomedical Engineering Award

Cleveland Clinic Department of Pathobiology Award

Cleveland Clinic Lerner Research Institute Award

United States Department of Health and Human Services Award

Governor's Award for Excellence in Information Science & Technology  
Research Award

**Ohio State Science Fair:** (Columbus, Ohio) – May 10<sup>th</sup>, 2008.

Future Physician Scientist Award

Statistical Analysis Award

American Society of Anesthesiologists (ASA)

3D Airway Reconstruction, Virtual Reality, and Digital Imaging in Anesthesiology  
Research Award, (2<sup>nd</sup> Place), 2007

American Society of Anesthesiologists (ASA)

Use of Digital Cone Beam X-Ray Technology as an Innovative Tool for Clinical  
Airway Assessment.  
Research Award (2<sup>nd</sup> Place), 2006

American Association of Orthodontists Foundation (AAOF)

Faculty Development Award, 2006

The University Center for Innovation in Teaching and Education (UCITE)

- Glennan Teaching Award, 2005
- American Association of Orthodontists Foundation (AAOF)  
Robert M. Ricketts Sunflower Orthodontics Fellowship Award, 2004
- American Association of Orthodontists Foundation (AAOF)  
T.M. Graber Teaching Fellowship Award, 2001
- The University Center for Innovation in Teaching and Education (UCITE)  
Faculty Teaching Grant, 2000
- American Association of Orthodontists Foundation (AAOF)  
Faculty Development Fellowship Award, 1999
- American Association of Orthodontists Foundation (AAOF)  
Biomedical Research Award – Three Dimensional Cephalometric Outcome  
Assessment of Orthognathic Surgical Procedures, 1998 – Secondary Investigator.

### **Professional and Academic Societies**

- American Association of Orthodontists (AAO)
- American Board of Orthodontics – Diplomate (ABO)
- American Academy of Oral and Maxillofacial Radiology (AAOMR) - Active Member
- American Dental Education Association (ADEA)
- Bolton-Brush Study Growth Center (BBGSC)
- Charles H. Tweed International Foundation
- College of Diplomates of the American Board of Orthodontics (CDABO)
- Conselho Regional de Odontologia (CRO) – Brazil
- International Association of Dental Research (IADR)
- Omicron Kappa Upsilon National Honor Dental Society (OKU)

### **Professional Service**

#### **Scientific Journals**

##### **Guest Editor in Chief**

Seminar in Orthodontics – Cone Beam CT for the Orthodontist 2010

##### **Associate Editor**

American Journal of Orthodontics and Dentofacial Orthopedics 2015 - Present  
Techno Bytes Section

##### **Editorial Advisory Board**

Turkish Journal of Orthodontics 2017 - Present  
Dentistry: Current Research 2011 - Present  
Clinical Dentistry and Research 2010 - Present

Journal of Health	2010 – Present
<b><u>Editorial Review Board</u></b>	
Sleep and Breathing	2015 - Present
Clinical Anatomy	2011 - Present
Bone	2011 - Present
European Journal of Orthodontics	2010 - Present
International Journal of Oral Science	2010 - Present
Clinical, Cosmetic and Investigational Dentistry	2010 - Present
Journal of Dental Education	2010 - Present
Journal of Applied Oral Science	2008 - Present
Journal of the American Dental Association	2006 - Present
Computer Methods and Programs in Biomedicine	2005 - Present
Angle Orthodontist	2005 - Present
American Journal of Orthodontics and Dentofacial Orthopedics	2000 - Present
Journal of Clinical Orthodontics	1999 - Present
<b><u>Case Western Reserve University Committees</u></b>	
Chair of CWRU Nominating Committee	2014 - Present
CWRU Faculty Senate Nominating Committee	2012 - Present
CWRU Faculty Senate Bylaws Committee	2011 - Present
Department of Orthodontics Graduate Admissions	1998 – Present
School of Dental Medicine Faculty Academic Status Committee	2015 - Present
School of Dental Medicine Executive Board	2015 – Present
School of Dental Medicine Graduate Studies	2009 - 2013
School of Dental Medicine Faculty Academic Status Committee	2009 - 2013
CWRU Faculty Senate- Graduate Studies Committee	2010 - 2012
School of Dental Medicine Graduate Studies - <u>Chair</u>	2010 - 2011
SODM Search committee for Comprehensive Care Chair	2009 - 2010
School of Dental Medicine Clinical Affairs	2007 - 2009
School of Dental Medicine Strategic Planning	2007 - 2008
School of Dental Medicine Maintenance of Health	2005 – 2006
School of Dental Medicine Nominations	2005 - 2008
School of Dental Medicine Executive Board	1999 – 2002

**National and International Level Professional Activities**

CDABO Advocate (College of Diplomates of the American Board of Orthodontists.	2013 - Present
Great Lakes Association of Orthodontists (GLAO) Communications Committee Member	2012 - Present
American Association of Orthodontists (AAO) Committee On Information Technology (CTECH)	2010 - Present
Reuters insight Expert	2008 - 2010
Expert Advisor for Anatomage Inc. – InVivo 3D Software	2008 - 2010
AAOF - American Association of Orthodontists Foundation Testimonial/Video Campaign for AAOF	2012
Evaluator referee for potential hire of full time faculty at the rank of Associate Professor with Tenure hire by The Ohio State University.	2012
Chair, American Association of Orthodontists Council on the Education Leadership Conference Implementing Evidence Based Learning	2006
Guy’s & St Thomas Charity Grant Reviewer (US\$ 800,000.00)	2005 - 2007
American Association of Orthodontists Foundation Technology and Database Archiving Committee	2005 - 2007

**Grant Support**

Align Technologies Research Grant	
Accuracy of ClinCheck in predicting final tooth position for Invisalign® cases treated using SmartTrack™ material	
Funded: 07/01/17 – 07/01/18 -	Total Amount: US\$ 25,000.00
Align Technologies Research Grant	
Using Aligners to Control Root Movement on Maxillary Posterior Teeth	P.I.
Funded: 07/01/16 – 07/01/17 -	Total Amount: US\$ 25,000.00
GAC – Dentsply	
Clinical Alliance for Research and Education	P.I.
Funded: 07/01/16 – 07/01/17 -	Total Amount: US\$ 75,000.00
Carestream Dental LLC	
Use of Low-Dose Cone Beam CT in Clinical Orthodontics	PI
Funded: 07/1/15 – 07/01/16	Total Amount: US\$ 10,000.00
GAC – Dentsply	
Clinical Alliance for Research and Education	P.I.
Funded: 07/01/15 – 07/01/16 -	Total Amount: US\$ 75,000.00



GAC – Dentsply Clinical Alliance for Research and Education	P.I.
Funded: 07/01/14 – 07/01/15 -	Total Amount: US\$ 75,000.00
GAC – Dentsply Clinical Alliance for Research and Education	P.I.
Funded: 07/01/13 – 07/01/14 -	Total Amount: US\$ 75,000.00
Hitachi Medical Systems of America Research support for radiation dosimetry study.	P.I.
Funded: 07/01/08 – 07/01/09	Total Amount: 10,000.00
UCITE Learning Fellowship	
Funded: 05/01/06 – 07/01/06	Total Amount: US\$ 2,000.00
Glennan Fellowship Teaching Award – Cone Beam Computerized Tomography	
Funded: 07/01/2005 – 07/01/2006	Total Amount: US\$ 6,500.00
American Association of Orthodontists Found. – Faculty Development Fellowship Award. “Three Dimensional Imaging in Orthodontics”	P.I.
Funded: 07/01/2004 – 06/30/2005	Total Amount: US\$ 15,000.00
American Association of Orthodontists Found. – Faculty Development Fellowship Award. “Computer Applications in Orthodontics”	P.I.
Funded: 07/01/2001 – 06/30/2002	Total Amount: US\$ 15,000.00
University Committee on Innovation in Teaching and Education (UCITE) - Teaching Grant. “Off Site Diagnosis”	P.I.
Funded: 06/01/2000 – 10/01/2000	Total Amount: US\$ 2,000.00
American Association of Orthodontists Found. – Faculty Development Fellowship Award. “Three Dimensional Cephalometric Analysis of Facial Morphology”	P.I.
Funded: 07/01/1999 – 06/30/2000	Total Amount: US\$ 15,000.00
American Association of Orthodontists Found. – Biomedical Research Award. “Three Dimensional Cephalometric Outcome Assessment of Orthognathic Surgical Procedures”	S.I.
Funded: 07/01/1998 – 06/30/1999	Total Amount: US\$ 15,000.00

## **Publications**

### **Thesis for the Degree of Master of Science in Dentistry:**

Palomo, J.M., Dean, D., Broadbent, B.H. and Hans, M.G. Three Dimensional Craniofacial Shape Change in 16 Female Bolton Faces. Thesis Publication 1997.

### **Peer Reviewed Publications:**

- 87) Rohra, A.K., Demko, C.A., Hans, M.G., Rosen, C., Palomo, J.M. Sleep Disordered Breathing in a child-aged orthodontic care seeking population. *Am J Orthod Dentofacial Orthop*. 2018;154:65-71.
- 86) Elshebiny, T., Palomo, J.M., Baumgaertel, S. Anatomic assessment of the mandibular buccal shelf for miniscrew insertion in white patients. *Am J Orthod Dentofacial Orthop*. 2018 Apr;153(4):505-511.
- 85) Bazina M, Cevidanes L, Ruellas A, Valiathan M, Quereshy F, Syed A, Wu R, Palomo JM. Precision and reliability of Dolphin 3-dimensional voxel-based superimposition. *Am J Orthod Dentofacial Orthop*. 2018 Apr;153(4):599-606.
- 84) Palomo, J.M. and Palomo, L. Periodontal Diseases and Quality of Life. *Biomed J Sci & Tech Res* 1(3). 2017.
- 83) Palomo, J.M. Overview: Intraoral Digital Scanners. *J Clin Orthod*. 2017 Sep;51(9):622-624.
- 82) Akbarzadeh N, Aminoshariae A, Khalighinejad N, Palomo JM, Syed A, Kulild JC, Sadeghi G, Mickel A. The Association between the Anatomic Landmarks of the Pulp Chamber Floor and the Prevalence of Middle Mesial Canals in Mandibular First Molars: An In Vivo Analysis. *J Endod*. 2017 43(11):1797-1801.
- 81) Alhazmi A, Vargas E, Palomo JM, Hans M, Latimer B, Simpson, S. Timing and rate of spheno-occipital synchondrosis closure and its relationship to puberty. *PLOS ONE* 12(8): e0183305. <https://doi.org/10.1371/journal.pone.0183305>
- 80) De Mattos J., Palomo J.M., Ruellas A., Cheib P., Eliliwi M., Souki B. Three dimensional positional assessment of glenoid fossae and mandibular condyles in patients with Class II subdivision malocclusion. *Angle Orthod*. 2017 Nov;87(6):847-854.
- 79). Elshebiny, T., Venkat, D., Strohl, K., Hans, M., Alonso, A, Palomo, JM. Hyoid Arch Displacement with Hypoglossal Nerve Stimulation for OSA. *Am J Respir Crit Care Med*. 2017 Sep 15;196(6):790-792.

- 78) Mostafa, RY, Bous, RM, Hans, MG, Valiathan, M, Copeland, GE, Palomo, JM. Effect of the CWRU's transverse analysis on the quality of orthodontic treatment. *Am J Orthod Dentofacial Orthop.* 2017 Aug;152(2):178-192.
- 77) Smuthkochron, S, Palomo, J.M., Hans, M.G., Jones, C.S., Palomo, L. Gingival Crevicular Fluid Bone Turnover Biomarkers: how postmenopausal women respond to orthodontic activation. *Am J Orthod Dentofacial Orthop.* 2017 Jul;152(1):33-37
- 76) Elshebiny, T, Venkat, D, Strohl, M, Strohl, K, Ponsky, D, Palomo, JM. Airway evaluation in response to hypoglossal nerve stimulation: a case report. *Journal of Dental Sleep Medicine.* 2017;4(1):15-17.
- 75) Oz, AZ, Oz, AA, El, H, Palomo, JM. Maxillary sinus volume in patients with impacted canines. *Angle Orthod.* 2017 Jan;87(1):25-32.
- 74) Figueiredo, D.S.F., Bartolomeo, D.S.F., Bartolomeo, F.U.C., Palomo, J.M., Horta, M.C.R., Andrade Jr., I., Oliveira, D.D. Effects of rapid maxillary expansion in cleft patients resulting of two different expanders. *Dental Press J Orthod.* 2016 Nov-Dec;21(6):82-90.
- 73) Sawchuk, D., Currie, K.S., Palomo, J.M., Lagravere, M.O., Flores-Mir, C. Diagnostic methods for assessing maxillary skeletal and dental transverse deficiencies: A systematic review. *Korean J Orthod* 2016;46(5):331-342.
- 72) Tsolakis, I.A., Venkat, D., Hans, M.G., Alonso, A., Palomo, J.M. When static meets dynamic: comparing CBCT and acoustic reflection for upper airway analysis. *Am J Orthod Dentofacial Orthop.* 2016 Oct;150(4):643-650.
- 71) Shantavasinkul P, Akkus O, Palomo JM, Baumgaertel S. Surface strain distribution of orthodontic miniscrews under load. *Am J Orthod Dentofacial Orthop.* 2016 Sep;150(3):444-50.
- 70) Zhang, C.Y., DeBaz, C., Bhandal, G., Ali, F., Francisco, M.C.B., Holly L. Thacker, H.L., Palomo, J.M., Palomo, L. Buccal bone thickness in the esthetic zone of postmenopausal women: A CBCT analysis. *Implant Dent.* 2016 Aug;25(4):478-84.
- 69) Baumgaertel, S., Smuthkochorn, S., Palomo, J.M. An intrusion method for single over-erupted maxillary molars using only palatal mini-implants and partial fixed appliances. *Am J Orthod Dentofacial Orthop.* 2016 Mar;149(3):411-5.
- 68) Mordente, C.M., Palomo, J. M., Horta, M. C. R., Souki, B. Q., Oliveira, D. D., Andrade Jr., I. Upper airway effects of 4 different maxillary expanders in cleft patients: a CBCT study. *Angle Orthod.* 2015 Nov 23. [Epub ahead of print]
- 67) Hans M, Valiathan M, Palomo JM, Murphy N, McNamara J. Donald Hugh Enlow, 1927-2014. *Am J Orthod Dentofacial Orthop.* 2014 Oct;146(4):537-8.

- 66) Strohl, M., Strohl, K. P., Palomo, J. M., Ponsky, D. Hypoglossal Nerve Stimulation Rescue Surgery After Multiple Multilevel Procedures for Obstructive Sleep Apnea. *Am J Otolaryngol.* 2016 Jan-Feb;37(1):51-3.
- 65) Hans MG, Palomo JM, Valiathan M. History of imaging in orthodontics from Broadbent to cone-beam computed tomography. *Am J Orthod Dentofacial Orthop.* 2015 Dec;148(6):914-21.
- 64) Stefanovic, N. L., Glisic, B., Nikolic, P. V., Juloski, J., Palomo, J. M. Pharyngeal Airway Changes after Bimaxillary Orthognathic Surgery – Preliminary Results. *Srp Arh Celok Lek.* 2015 May-Jun;143(5-6):267-273.
- 63) Lee, S., Wang, R. F., Kang, I. C., Kang, B. C., Lee, J.S., Ryu, S. Y., Hwang, H. S., Palomo, J.M., Yoon, S.J. Amount of Facial Asymmetry in a Spherical Coordinate System: A Comparison Before and After Orthognathic Surgery. *Int J Radiol Med Imag* 2015, 1: 101-105.
- 62) Yoon, K.W., Yoon, S.J., Kang, B.C., Kim, Y.H., Kook, M.S., Lee, J.S., Palomo, J.M. Deviation of landmarks in accordance with methods of establishing reference planes in three-dimensional facial CT evaluation. *Imaging Sci Dent.* 2014; 44: 207-12.
- 61) Oliveira, D., Bartolomeu, F., Cardinal, L., Figueiredo, D., Palomo, J.M., Andrade Jr, I. An alternative clinical approach to achieve greater anterior than posterior maxillary expansion in cleft lip and palate patients. *J Craniofac Surg.* 2014 Nov;25(6):e523-6..
- 60) Crawford, B., Kim, D.G., Moon, E.S., Johnson, E., Fields, H.W., Palomo, J.M., Johnston, W.M. Cervical Vertebral Bone Mineral Density Changes in Adolescents during Orthodontic Treatment. *Am J Orthod Dentofacial Orthop.* 2014 Aug;146(2):183-9.
- 59) Figueiredo, D., Bartolomeu, F., Romualdo, C., Palomo, J.M., Horta, M., Andrade Jr, I., Oliveira, D. Dentoskeletal effects of 3 different maxillary expanders in cleft patients: a cone-beam computed tomography study. *Am J Orthod Dentofacial Orthop.* 2014 Jul;146(1):73-81.
- 58) Yoon, S.J., Wang, R.F., Ryu, S.Y, Hwang, H.S., Kang, B.C., Lee, J.S., Palomo, J.M. Use of spherical coordinates to evaluate three-dimensional facial changes after orthognathic surgery. *Imaging Sci Dent.* 2014; 44: 15-20.
- 57) El, H., Palomo, J.M. Three-dimensional evaluation of upper airway following rapid maxillary expansion. *Angle Orthod.* 2014 Mar;84(2):265-73.
- 56) Huang, H., Richards, M., Bedair, T., Fields, H.W., Palomo J.M., Johnston, W.M., Kim, D.G. Effects of orthodontic treatment on human alveolar bone density distribution. *Clin Oral Invest.* 2013 Dec;17(9):2033-40.

- 55) Zhao XG, Hans MG, Palomo JM, Lin JX. Comparison of Chinese and white Bolton standards at age 13. *Angle Orthod.* 2013, 83(5):809-16.
- 54) Evans, C., Scarfe, W.C., Ahmad, M., Cevidane, L.H.S., Ludlow, J.B., Palomo, J.M., Simmons, K.E., White, S. Clinical recommendations regarding use of cone beam computed tomography in orthodontic treatment. Position statement by the American Academy of Oral and Maxillofacial Radiology. *Oral Surg Oral Med Oral Pathol Oral Radiol.* 2013;116(2):238-57.
- 53) Yoon, S.J., Wang, R.F., Hee, J.N, Palomo, J.M. Normal range of facial asymmetry in spherical coordinates: a CBCT study. *Imaging Sci Dent.* 2013; 43: 31-36.
- 52) Stefanovic N., El H., Chenin D.L., Glisic B., Palomo J.M. Three-dimensional pharyngeal airway changes in orthodontic patients treated with and without extractions. *Orthod Craniofac Res.* 2013, 16(2):87-96.
- 51) Amirlak, B., Tang, C.J., Becker, D., Palomo, J.M., Gosain, A.K. Volumetric Analysis of Simulated Alveolar Cleft Defects and Bone Grafts using Cone Beam Computed Tomography (CBCT). *Plast Reconstr Surg.* 2013, 131(4):854-9.
- 50) El, H., Palomo, J.M. An Airway Study of Different Maxillary and Mandibular Sagittal Positions. *Eur J Orthod.* 2013, 35:262-270.
- 49) Quereshy FA, Barnum G, Demko C, Horan M, Palomo JM, Baur DA, Jannuzzi J. Use of Cone Beam Computed Tomography to Volumetrically Assess Alveolar Cleft Defects- Preliminary Results. *J Oral Maxillofac Surg.* 2012, 70(1):188-191.
- 48) Yoon, S.J., Wang, R.F., Hwang, H.S, Kang, B.C, Lee, J.S., Palomo, J.M. Application of spherical coordinate system to facial asymmetry analysis in mandibular prognathism patients. *Imaging Sci Dent.* 2011; 41: 95-100.
- 47) Chan, G., Hans, M.G., Baden, S., Palomo, J.M. Linear and Angular Measurements from Plain Film Cephalometry, 3DCeph, and CBCT. *Orthodontic Sci. Pract.* 2011; 4(16):765-774.
- 46) Shewinvanakitkul W, Hans MG, Narendran S, Palomo JM. Measuring Buccolingual Inclination of Mandibular Canines and First Molars Using CBCT. *Orthod Craniofac Res* 2011, 14:168–174.
- 45) Kang, B.C., Yoon, S.J., Lee, J.S., Al-Rawi, W., Palomo, J.M. The use of Cone Beam Computed Tomography (CBCT) for the evaluation of pathology, developmental anomalies and traumatic injuries relevant to orthodontics. *Sem. Orthod.*, Vol. 17, No. 1, 2011: pp 20-33.
- 44) El, H., Palomo, J.M. Airway volume for different dentofacial skeletal patterns. *Am J Orthod Dentofacial Orthop.* 2011, 139(6):e511-21.

- 43) Kim, E.J., Palomo, J.M., Kim, S.S., Lim, H.J., Lee, K.M., Hwang, H.S. Maxillofacial characteristics affecting chin deviation between mandibular retrusion and prognathism patients. *Angle Orthod.* 2011, 81(6):988-993.
- 42) El, A.S., El, H., Palomo, J.M., Baur, D.A. A 3D Airway Analysis of an Obstructive Sleep Apnea Surgical Correction with Cone Beam CT. *J Oral Maxillofac Surg.* 2011, 69(9):2424-36.
- 41) Hans, M.G., Valiathan, M., Palomo, J.M. Cone beam Computed tomography: A link with the past, a promise for the future. *Sem. Orthod.*, Vol. 17, No. 1, 2011: pp 81-87.
- 40) Valiathan, M., Metzger, T., El, H., Hans, M.G., Palomo, J.M. Evaluation of Airway Volume Changes in Patients Treated with Distraction Osteogenesis: A Pilot Study. *J Dentofacial Anom Orthod* 2010;13:223-234.
- 39) Yoon, S.J., Wang, R.F., Palomo, J.M. 3D Analysis of Facial Asymmetry using CBCT. *Journal of Korean Dental Association* 2010, 10:724-728.
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Bahl-Palomo, L., Palomo, J.M., Bissada, N., Hans, M.G. 3D Image-guided placement of temporary anchorage devices for orthodontics. Ortho Tribune – Dental tribune America. April 2007, Vol. 2, No. 4. pp. 1, 12-14.

Palomo, J. M., Subramanyan, K., Broadbent, B. H., and Hans, M. G. The 2D and 3D Bolton Standards – Part II. Kieferorthopädie Nachrichten (Orthodontic News) - Oemus Media AG 2006 Sep; 9: 6-8.

Palomo, J. M., Hans, M.G. Three Dimensional Imaging. Chapter in Book: Ortodontia: Arte e Ciência (Orthodontics: Art and Science) Roberto M. A. Lima Filho and Ana Maria Bolognese – Dental Press. 2007 – Maringa, PR – Brasil. ISBN: 978-85-88020-40-5.

Palomo, J. M., Subramanyan, K., Broadbent, B. H., and Hans, M. G. Bolton Standards in 2D and 3D. Ortho Tribune – Dental Tribune America. Sept 2006; Vol 1, No. 3. pp. 8-11.

Palomo, J. M., Subramanyan, K., Broadbent, B. H., and Hans, M. G. The 2D and 3D Bolton Standards – Part I. Kieferorthopädie Nachrichten (Orthodontic News) - Oemus Media AG. 2006 Jul/Aug; 7/8: 4-5.

### **Interviews and Media**

KN Compendium “Digital Orthodontics” (in German: Digitale Kieferorthopädie) – Interview on use of CBCT in Orthodontics - December 2014

Univision - Oral Healthcare in the Hispanic Population - April 2012.

OrthoScience Journal - Interview - June 2012.

Plain Dealer Newspaper / Website – New technology gives doctors a graphic view of what ails you – April 13<sup>th</sup>, 2007.

Inside Business – Science Nonfiction – March 2007.

RT Image Magazine – Cone Beam Computerized Tomography in Dental Medicine - 2006

Kieferorthopädie Nachrichten (Orthodontic News) - Oemus Media AG – Craniofacial Imaging and the Bolton Standards - 2006 Jul/Aug; 7/8: 4-5.

Orthodontic Products – 3D Imaging in Orthodontics and the Bolton Standards – Oct 2006.

ShowCase Magazine – CBCT Imaging in Dental Medicine – 2005 issue.



**Invited Papers and Presentations**

**2018** 12th Saudi Orthodontic Society Annual meeting  
Presentation 1: Using CBCT in Clinical Orthodontics  
Presentation 2: The 3D Airway and Sleep Disorders: Recent Research and Efficient  
Protocols for an Orthodontic Office  
March 23-25th - Riyadh, Saudi Arabia

Angle Society of Orthodontists – East Chapter  
3D Superimposition  
March 8-12 - Milan - Italy

American Association of Orthodontists Annual Session  
The Airway and the orthodontist  
May 4-8, Washington DC

Feigal Symposium – Minnesota Academy of Pediatric Dentists  
The Airway and the dentist  
Sept 14, Minneapolis, MN

Orto SPO - Sao Paulo Orthodontic Society  
The Airway and the orthodontist  
Sept 20-23, Sao Paulo, SP, Brazil

S.I.Te.Bi. National Meeting  
CBCT in Clinical Orthodontics  
Nov 20-23, Rome, Italy

**2017** Egyptian Orthodontic Society Annual Session  
Using CBCT in Clinical Orthodontics – an update  
January 19  
Cairo, Egypt

AAO General Session  
The 3D Airway and Sleep Disorders: Recent Research and Efficient Protocols for an  
Orthodontic Office  
San Diego, CA

Angle Society of orthodontists – Biennial Meeting - All Chapters present.  
The airway and sleep apnea in clinical orthodontics.  
Sept 6-8 – Chicago, ILL

Orthodontic World Congress – Dentsply Sirona  
3D Imaging in the Dental Office  
Sept 15-18 – Las Vegas, NV

Chinese Orthodontic Society  
Using CBCT in Clinical Orthodontics  
Sept 20-22 – Shanghai, China

Pacific Coast Society of Orthodontists (PCSO)  
Sleep Apnea in Clinical orthodontics  
Oct 13-15 – Reno, NV

Egyptian Orthodontic Society – Post Congress  
The 3D Airway and the Orthodontist  
January 22  
Egyptian Cruise

2017 Dental Congress of the Caribbean & Dental Marketplace  
Using 3D Imaging in Clinical Orthodontics  
February 23-26  
San Juan, Puerto Rico

Angle East Society  
March 26-29  
Montreal, Canada

AAO General Session  
The 3D Airway and Sleep Disorders: Recent Research and Efficient Protocols for an  
Orthodontic Office  
San Diego, CA

**2016** AAO General Session  
How to Use Encrypted Email in Your Practice  
April 29 – May 3  
Orlando, FL

The Academy of Clinical Dentistry Annual Session  
3D Imaging for the Dentist  
June 11-13  
Tokyo, Japan

Tokyo Orthodontic Study Club  
Using 3D Imaging in Clinical Orthodontics  
June 16  
Tokyo, Japan

94th General Session & Exhibition of the IADR  
Comparing CBCT and Acoustic Reflection for Upper Airway Analysis.  
June 22-25, 2016

Seoul, KSA

47<sup>th</sup> SIDO International Congress / 4<sup>th</sup> MOIP Congress  
Using CBCT in Clinical Orthodontics.  
October 13-16  
Florence, Italy

Al Garhoud Private Hospital  
Airway, the Orthodontist and the Medical Profession  
November 22  
Dubai, UEA

**2015** Orthodontic World Congress  
To 3D or not to 3D, is that the question?  
February 18-21  
San Diego, CA

AAO General Session  
Presentation 1: For Doctors' Program: How to use Email and still be HIPAA compliant?  
Presentation 2: For Staff Program: How to use Email and still be HIPAA compliant?  
San Francisco, CA

Angle East Society  
Critique of: Association between Airway Clearance and Maxillo-Mandibular interdependence in Children with Adenoid Hypertrophy.  
March 26-29  
Washington, DC

Continental Orthodontic Study Club, Inc.  
37th Annual Summer Meeting  
To 3D or not to 3D, is that the question?  
July 22-26  
Chicago, IL

University of Illinois in Chicago (UIC)  
Department of Orthodontics  
To 3D or not to 3D, is that the question?  
July 24  
Chicago, IL

NYU International Program  
Using 3D Imaging in Clinical Orthodontics  
November 24  
New York, NY

Greater New York Dental Meeting  
To 3D or not to 3D, is that the question?

- November 25-30  
New York, NY
- 2014** AADR General Session  
Reliability of a Method that Evaluates Orthodontic Changes in Three-Dimensions  
Charlotte, NC
- Jacksonville University  
3D Imaging in Clinical Orthodontics  
Jacksonville, FL.
- AAO General Session  
Electronic Records Transfer. Do you Use Email to Transfer Records? Is it HIPAA  
Compliant?  
New Orleans, LA  
Angle East Society  
A Three Dimensional Evaluation of Class II Subdivision Malocclusion Correction  
Using Cartesian Coordinates\*  
Paris, France
- 13th Panhellenic Orthodontic Congress  
September 26-28  
Presentation 1: To3D or not to 3D, is that the question?  
Presentation 2: The 3D Airway  
Athens, Greece
- 45<sup>th</sup> SIDO International Congress / 4<sup>th</sup> MOIP Congress  
3D Imaging  
October 9-12  
Florence, Italy
- 2013** AADR/IADR General Session  
Volumetric Changes of the Maxilla after Rapid Maxillary Expansion  
March 20-23  
Seattle, WA
- AAO General Session  
Presentation 1: The why, what, who, how, and when of CBCT in Clinical  
Orthodontics.  
Presentation 2: Moving your Practice to the Cloud – Presented with Dr. Aaron Molen.  
May 3-7  
Philadelphia, PA
- Angle East Society  
A Volumetric Study of Rapid Maxillary Expansion  
April 11-13  
New Paltz, NY
- FUE Second International Dental Conference  
To 3D or not to 3D, is that the question?

April 30-May 3  
Cairo, Egypt

CDABO - College of the American Board of Orthodontics Annual Session  
To 3D or not to 3D, is that the question?

July 21-25  
Bermuda

11th Arab Orthodontic Congress

Presentation 1: "Peter Riscallah Memorial Lecture" J. Martin Palomo: To 3D or not to 3D, is that the question? Using CBCT in Clinical Orthodontics

Presentation 2: The 3D Airway

October 31- November 3  
Beirut, Lebanon

**2012 - AAO General Session**

Honolulu, HI.

XIV International Symposium on Dentofacial Development and Function  
Beijing, China.

Great Lakes Association of Orthodontists (GLAO) Annual Session  
Indianapolis, IN.

ADEA -American Dental Education Association Annual Session  
Orlando, FL.

University of Belgrade - Department of Orthodontics  
Belgrade, Serbia.

Angle East Society  
Boston, MA

Moyers Symposium  
March 10-11  
Ann Arbor, MI

**2011 – Meeting of the Brazilian Orthodontic Association (ABOR)**

Belo Horizonte- MG, Brazil.

**The Arthur B. Lewis Lecture**

Ohio State University

Oct 7th, 2011

Columbus, OH

European Orthodontic Society (EOS)

Istanbul, Turkey

AAO General Session

Chicago, IL, USA

Angle East Society

- Providence, RI  
IADR General Session  
Session Chair and Oral Presenter  
San Diego, CA, USA
- 2010** - Nanchang University  
Nanchang, China.
- Peking University  
Beijing, China.
- Wenzhou Medical College  
Wenzhou, China.
- 62<sup>nd</sup> Anniversary Celebration of the School of Dentistry  
University of Belgrade.  
'Three Dimensional Imaging in Orthodontics'  
June 26th, 2010.  
Belgrade, Serbia.
- University of Belgrade - Department of Orthodontics  
June 25th, 2010.  
Belgrade, Serbia.
- 2010 Quintessence Symposium in Yokohama  
Yokohama, Japan.
- Orthodontics in 3D - Special Course  
Tokyo, Japan
- Orthodontics in 3D - Special Course  
Okinawa, Japan
- XIII International Symposium on Dentofacial Development and Function  
Florence, Italy.
- 88th IADR General Session -  
CBCT Symposia Presenter  
Barcelona, Spain.
- AAO General Session  
Washington DC, USA
- AADR General Session  
Washington DC, USA
- 2009** – Cleveland Society of Orthodontists – Cleveland, OH.  
3D Imaging for the 3D Patient – 8-hour course  
January 23, 2009.
- The Orthodontic Education and Research Foundation Meeting – St Louis, MO  
Cone Beam CT for the Clinician

March 13-15, 2009.

The American Association of Orthodontists 109<sup>th</sup> Annual Session – Boston, MA  
Airway in 3D  
May 1-5<sup>th</sup>, 2009.

AADR General Session  
April 1-4, 2009  
Miami, FL., USA

**2008** – Great Lakes Science Center – Cleveland, OH

Advances in Medical Imaging  
February 2, 2008.

Lakewood Study Club – Lakewood, OH  
Temporary Anchorage Devices  
February 7, 2008.

AADR – International Association of Dental Research Annual Session  
Image Distortion and Spatial Resolution of a Commercially Available CBCT  
April 2-5, 2008  
Dallas, TX.

American Association of Orthodontists 108<sup>th</sup> Annual Session – Denver, CO.  
A Clarification of CBCT Radiation Exposure and Image Quality  
May 16-20, 2008.

Saint Louis University  
Use of Cone Beam CT in Orthodontics – Lecture and expert Consultation for  
implementation of the CBCT technology at Saint Louis University.  
June 2, 2008.

Universitat Internacional de Catalunya – Barcelona, Spain.  
Use of Cone Beam CT in Orthodontics – Lecture and expert Consultation for  
implementation of the CBCT technology.  
June 24, 2008

22<sup>nd</sup> CARS - Computer Assisted Radiology in Medicine – Computed Maxillofacial  
Imaging - Barcelona – Spain.  
Analysis of Dental Root Surface Area Using CBCT  
June 25-28, 2008

17<sup>th</sup> Congresso Internacional Odontológico CIOPG – Ponta Grossa, Brazil  
International Dental Meeting.  
Cone Beam CT Radiation and Image Quality.  
September 18-20, 2008

**2007** – Research ShowCase 2007 – Cleveland, OH

Magic Technology – advances in bio-imaging – panelist.  
April 11-12, 2007.

IADR/AADR – International Association of Dental Research Annual Session – New Orleans, LA.

Accuracy and reliability of cephalometric and CBCT linear measurements

March 21-24, 2007

American Association of Orthodontists 107<sup>th</sup> Annual Session – Seattle

Influence of CBCT settings in radiation exposure

May 18-22, 2007

21<sup>st</sup> CARS - Computer Assisted Radiology in Medicine – Computed Maxillofacial Imaging - Berlin – Germany.

The accuracy and reliability of CBCT measurements using a custom phantom

June 27-30, 2007

XI Scientific Meeting of Orthodontics and Dentofacial Orthopedics

Use of Cone Beam CT in Dental Medicine – 8 hour course.

Belo Horizonte – MG, Brasil - November 23-24, 2007

**2006** – Hitachi Medical Systems Headquarters

Title: Image resolution and radiation exposure of the Hitachi CB MercuRay CBCT

July 7<sup>th</sup>, 2006.

Tokyo – Japan

20<sup>th</sup> CARS - Computer Assisted Radiology and Surgery – Computed Maxillofacial Imaging

Influence of mA settings and a copper filter in CBCT image resolution.

Registration and comparison of pre and post operative craniofacial CBCT images for clinical assessment.

Osaka - Japan - June 28 - July 1, 2006.

American Association of Orthodontists 106<sup>th</sup> Annual Session – Las Vegas

The creation of 3D Standards.

April 28 - May 2, 2006

Research ShowCase – Case Western Reserve University

Three dimensional cone beam tomography.

April 5-6<sup>th</sup>, 2006

AADR/ADEA

American Association of Dental Research Annual Session – Orlando - FL

Craniofacial growth differences in Class II versus III Malocclusions

March 8<sup>th</sup> – 11<sup>th</sup>, 2006.

**2005** – Ohio Dental Association – 139<sup>th</sup> Annual Session – Columbus

Three-Dimensional Imaging for the Three-Dimensional Patient

September 15-18<sup>th</sup>, 2005.

Research ShowCase – Case Western Reserve University

Can Scanned Images Replace the Original Radiograph?

April 6<sup>th</sup>.



- International Association of Dental Research 83<sup>rd</sup> Annual Session – Baltimore - MD  
Can Scanned Images Replace the Original Radiograph?  
March 9<sup>th</sup> – 12<sup>th</sup>, 2005.
- 32<sup>nd</sup> Annual Moyer’s Symposium – Ann Arbor - MI  
The Creation of 3D Standards for CT Images.  
February 25<sup>th</sup> – 27<sup>th</sup>, 2005
- 2004** – 15<sup>th</sup> Ponta Grossa’s International Dental Medicine Meeting - Brazil  
Imaging in Dental Medicine  
September 15<sup>th</sup> – 18<sup>th</sup>, 2004.
- North Central Ohio Dental Association  
Imaging in Orthodontics  
January 22<sup>nd</sup>.
- International Association of Dental Research 82<sup>nd</sup> Annual Session – Honolulu-HI  
March 10<sup>th</sup> – March 13<sup>th</sup>.
- Research ShowCase – Case Western Reserve University  
A Comparison of Scanned Lateral Cephalograms to Corresponding Original  
Radiographs.  
April 2<sup>nd</sup>.
- 2003** American Association of Orthodontists 103<sup>rd</sup> Annual Session – Honolulu – HI  
Use of Digital Photography in the Orthodontic Clinic of CWRU.  
May 2<sup>nd</sup> – May 6<sup>th</sup>.
- International Association of Dental Research 81<sup>th</sup> Annual Session – San Antonio-TX  
The Efficacy of Early Orthodontic Treatment Using the ICON.  
March 12<sup>th</sup> – March 15<sup>th</sup>.
- Research ShowCase – Case Western Reserve University  
April 4<sup>th</sup>.
- 2002** American Association of Orthodontists 102<sup>st</sup> Annual Session – Philadelphia - PA  
Orthodontic Patient Demographics Collected from Practice Management Software.  
May 4<sup>th</sup> – May 7<sup>th</sup>.
- International Association of Dental Research 80<sup>th</sup> Annual Session – San Diego - CA  
Craniofacial Growth and Development of 16 Class II Bolton Females.  
April 6 - April 9<sup>th</sup>.
- 2001** American Association of Orthodontists 101<sup>st</sup> Annual Session – Toronto -ON  
Creating a Complete Three-Dimensional Digital Orthodontic Patient Record  
May 5<sup>th</sup> – May 8<sup>th</sup>.
- 2000** Great Lakes Association of Orthodontists 72<sup>nd</sup> Annual Session – Cleveland – OH.  
“Three Dimensional Imaging in Orthodontics”  
October 27<sup>th</sup> – October 29<sup>th</sup>.

- American Association of Orthodontists 100<sup>th</sup> Annual Session – Chicago – IL.  
“How to make a Power Point presentation” – Roundtable Discussion Leader  
April 28<sup>th</sup> – May 4<sup>th</sup>.
- International Association of Dental Research 78<sup>th</sup> Annual Session – Washington DC  
3d Shape change in the Aging Soft Tissue Face.  
April 5<sup>th</sup> – April 8<sup>th</sup>.
- 1999** American Association of Orthodontists 99<sup>th</sup> Annual Session – San Diego - CA  
April 28<sup>th</sup> – May 4<sup>th</sup>.
- Moyers Symposium - Ann Arbor, MI.  
“Three Dimensional Craniofacial Shape Change in Sixteen Female Bolton Faces”  
February 26<sup>th</sup> – February 28<sup>th</sup>.
- International Association of Dental Research 77<sup>th</sup> Annual Session – Vancouver BC  
March 10 – March 13<sup>th</sup>.
- 1997** 7<sup>th</sup> Professional’s Day – Cleveland – OH.  
“The Three-Dimensional Bolton Standards” - April 15<sup>th</sup>.
- 1996** Great Lakes Association of Orthodontists 68<sup>th</sup> Annual Session – Toronto - ON  
“The Comparison of Two Dental Devices for the Treatment of Sleep Apnea”  
October 26- October 28<sup>th</sup>.
- American Association of Orthodontists 96<sup>th</sup> Annual Session – Denver – CO.  
“Assessment of Orthodontic Treatment Outcome Using the PAR Index”  
May 4<sup>th</sup> – May 8<sup>th</sup>.