

# CURRICULUM VITAE

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## EDUCATION

1998	Ph.D.	University of Buffalo (Oral Biology)
1997	Certificate	University of Buffalo (Certificate of Proficiency in Periodontology)
1992	M.S.	University of Buffalo (Oral Sciences)
1992	Diploma	University of Buffalo (Temporomandibular Disorders & Orofacial Pain)
1988	B.S.	Cayetano Heredia Peruvian University, Lima, Peru. (Stomatology)
1988	D.D.S.	Cayetano Heredia Peruvian University, Lima, Peru (Dentistry)

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## LICENSURE AND CERTIFICATION

2004-	Diplomate, American Board of Periodontology.
2003-	Commonwealth of Virginia, Dental Licensure.
1998-2003	Commonwealth of Massachusetts.
1992-	Florida, Dental Licensure.
1988-	Lima, Peru, Dental Licensure.

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## ACADEMIC APPOINTMENTS

2003-2005	Part time Faculty, Baltimore College of Dental Surgery. Department of Periodontics & Endodontics. University of Maryland.
2000-2003	Director, Predoctoral Periodontology Program. Harvard School of Dental Medicine.
2001-2003	Senior Tutor, Cannon Society. Harvard School Of Dental Medicine Department Of Periodontology.
1998-2003	Instructor, Department of Oral Medicine, Infection and Immunity, Division of Periodontics, Harvard School of Dental Medicine.
1992-1998	Postdoctoral Associate, University of Buffalo, Department of Oral Biology.
1993-1998	Clinical Assistant Professor, University Of Buffalo, Department Oral Diagnostic Sciences.
1986-1989	Clinic Instructor, Cayetano Heredia University, Department of Clinical Dentistry.
1991-1998	Instructor in Periodontology. University of Buffalo, School Of Dental Medicine.

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## HOSPITAL OR AFFILIATED INSTITUTIONAL APPOINTMENTS

1986:	Medical-Surgical Residency. Cayetano Heredia Base Hospital, Lima, Peru.
1988-1989	General Dentist, Medical Private Corporation MEDICSA.Lima, Peru.
1998-2003	Periodontist, Implantologist, Orofacial Pain Specialist, Faculty Group Practice, Harvard School of Dental Medicine.

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## MAJOR ADMINISTRATIVE RESPONSIBILITIES

### *University of Buffalo:*

#### *Department of Oral Diagnostic Sciences*

1993-1997	Clinic Coordinator, TMD & Orofacial Pain Clinic, School of Dental Medicine.
1994-1998	Clinic Instructor, Department of Periodontics, School of Dental Medicine.

**Harvard School of Dental Medicine:***Department of Periodontology*

1998- Core Clinical Faculty, Periodontology.  
1998-2001 Course Director of Postdoctoral Periodontology Literature Review.  
1999-2001 Course Director of Research Seminar Series.  
2000-2003 Course Director, Core Clinical Periodontology.  
2000-2003 Director, Predoctoral Periodontology Program.

*Office of Dental Education*

2000- Session Leader, Core Clinics.  
2001-2003 Senior Tutor, Cannon Society, HSMD.  
2001-2003 Clinical Affairs Liaison.  
2001-2003 Senior Fellow, Cannon Society, Harvard Medical School.  
2001-2003 Predoctoral Outcomes Assessment.

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**MEMBERSHIPS, AND PROFESSIONAL SOCIETIES**

2005- Women of Washington.  
2004- McLean Chamber of Commerce.  
2004- Washington Metropolitan Implant Study Club.  
2003- Omicron Kappa Upsilon, Harvard School of Dental Medicine.  
2001 American Association of Women Dentists.  
1999-2003 Massachusetts Dental Society.  
1999-2002 American Society for Bone and Mineral Research.  
1999- American Dental Association.  
1999- Peruvian Society of Periodontics and Osseointegration.  
1994- American Academy of Periodontology.  
1993-2001 American Society for the Advancement of Science.  
1990-1995 American Student Dental Association.  
1990- American Association of Dental Research.  
1990- International Association of Dental Research.  
1990- University of Buffalo Alumni Association.  
1988- Peruvian Society of Dental and Maxillofacial Prosthetics.  
1988- Peruvian College of Odontology.

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**COMMUNITY SERVICE RELATED TO PROFESSIONAL WORK**

2000-2003 Seminars in Caries & Periodontal Disease Prevention. Parents/Teachers of "Happy Child Daycare Center, Newton MA.  
2000 American Academy of Periodontology Spokesperson for Hispanic Americans on the Periodontal-Systemic Connection.  
2000-2002 Spokesperson for Crest on the Campaign "Crest Healthy Smiles 2010".  
2001-2002 Reviewed for the AAP all patient's pamphlet translations from English to Spanish.

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**EDITORIAL BOARD:**

1997- Journal of Periodontology  
2000 Ad hoc Reviewer, Journal of Bone and Mineral Research  
2003 Ad hoc Reviewer, American Journal of Dentistry

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**AWARDS AND HONORS**

- Selected by the *Northern Virginia Magazine* and *Washingtonian Magazine* as one of the best periodontists in Northern Virginia, and Washington metropolitan area.
- Selected by the American Academy of Periodontology as the Spokesperson for Hispanic Americans on Oral-Periodontal Health (2000).
- New Dentist Scientist Award from the ADA Foundation (September 2000).

- "Training in Fundamental and Applied Oral Health Research" 5T32-DE07034 from 1992-1993.
- Dentist Scientist Award from the NIDCR from 1993 to 1998.
- Elected "Who is Who among Students in American Universities and Colleges".
- Third in the Honor list, Class of 1986 Dental School, Cayetano Heredia University.

### **REPORT OF TEACHING:**

#### *CAYETANO HEREDIA PERUVIAN UNIVERSITY*

1986-1989 Clinic & Pre-Clinic Instructor in Periodontics and Occlusion. Faculty of Dentistry.

#### *UNIVERSITY OF BUFFALO*

1992-1997 Clinic Coordinator, TMD & Orofacial Pain. Clinic, School Of Dental Medicine.

1992-1997 Clinic supervision, postdoctoral students. TMD & Orofacial Pain Clinic.

1992-1998 Clinical Instructor, Department of Periodontology.

1993-1997 Lecturer and Tutor, ODS 502, Oral Sciences Pain.

1993-1997 ORM 834: "Principles and Modalities of Treatment of TMD"

1994-1998 "Periodontal Disease In The Pathogenesis Of Bone Resorption". Junior Class.

1992-1997 TMD Clinical Conferences. Postdoctoral TMD Residents.

1993-1997 TMD Journal Club. Postdoctoral students. Spring and Fall Semesters.

#### *HARVARD SCHOOL OF DENTAL MEDICINE*

1998- Clinic Supervision. Predoctoral 3rd and 4th year students.

1998- Clinic Supervision. Postdoctoral Periodontology Residents.

1998-2001 Periodontal Literature Review. Course Director. Periodontology residents.

1998 Evidence Based Dentistry. Tutor. Predoctoral students.

1998-2003 Oral Comprehensive Examination. 3rd and 4th year Predoctoral students.

1998-2003 Oral Comprehensive Examination. Postdoctoral Periodontology Residents.

1999-2001 Course Director: Research Seminar Series. Postdoctoral Course.

1999-2002 Development Course. Lecturer in Periodontal Development and Biology.

1999-2003 Patient-Doctor-1. Hms/Hsdm. Tutor. Dental/Medical School Students.

1999-2002 Restorative Block. "Periodontal Surgery IV-Osseous Surgery".

1999-2002 Restorative Block. "Periodontal Surgery II- Attached Gingiva and Pre-prosthetic Considerations".

1999 Periodontal Therapy. Occlusion Series. "TMD Consideration In The Periodontally Compromised Dentition". Periodontology Residents.

2000-2002 Periodontal Therapy. "Regeneration Principles I: Growth Factor & Wound Healing".

2000-2003 Implant Dentistry. "Sinus Pathology". Periodontology Residents.

1998-2004 Implant Dentistry. "Use Of Barrier Membranes Around Endosseous Dental Implants".

2000-2002 Fundamentals of Osseointegration & Bone Regeneration. Oral Biology 606.

"Periodontal Approaches In Bone Deficit Sites". Postdoctoral Students.

2000-2001 "Implant Dentistry: Surgical Protocol". Advanced Surgical Treatment Block.

2001-2002 "Treatment Planning". Lecturer. Treatment of Active Disease Block.

2000-2002 "Periodontal Surgical Techniques". Lecturer. Treatment of Active Disease Block.

2000-2002 "Pig Jaw Surgical Exercise". Run the lab .Treatment of Active Disease Block.

2001-2002 "Pathology: Periodontal Diseases". Oral Pathology Course.

2001-2003 "Pathogenesis of Periodontal Diseases". Diagnosis and Prevention Block.

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### **INVITED PRESENTATIONS/WORKSHOPS**

Feb. 1989 "Advantages/Disadvantages of the Use of Dental Amalgam Restorations Vs. Composites in Posterior Teeth". Fifth Latin American Meeting., Lima. Peru.

June 1991 "Temporomandibular Disorders: New Treatment Approach", 6 hours course, VI International Meeting. Peruvian Society of Dental & Maxillofacial Prosthetics, , Lima-Peru.

Sept. 1992 "Effect of Changes in the x-ray Beam Angulation on Radiographic Alveolar Crest Measurements". Annual CADR/AADR Meeting. Niagara on the Lake, Canada.

Sept. 1995 "Evaluation and Treatment Planning of the Patient with Periodontal Disease", 58th Annual Session of the Peruvian Academy of Stomatology, Cuzco-Peru.

- Feb. 1997 "Evaluation of Patients with Temporomandibular Disorders and Orofacial Pain". Oral Diagnostic Sciences, Department Faculty Seminar Series.
- Sept. 1999 "Workshop in Predoctoral & Postdoctoral Education". \*85th Annual Meeting, American Academy of Periodontology. San Antonio, Texas.
- Dec. 1999 "Workshop on Oral Diseases and Diabetes". National Institute of Dental and Craniofacial Research, National Institutes of Health. Bethesda, M.D.
- July 2000 "Guided Tissue Regeneration And Periodontal Plastic Surgery". Two Day Course With Live-Surgery. Cayetano Heredia University & Peruvian Society of Periodontics. Lima Peru.
- Sept. 2000 "Workshop in Postdoctoral Education". \*86th Annual Meeting, American Academy of Periodontology. Honolulu, Hawaii.
- Dec. 2000 "Regeneration in Periodontics". One day course. CILAI, Formosa, Argentina.
- Dec. 2000 "Regeneration in Periodontics". One day course. CILAI, La Plata, Argentina.
- Dec. 2000 "Regeneration in Periodontics". One day course. CILAI, Buenos Aires, Argentina.
- Oct. 2001 "Periodontal Plastic Surgery" One day course. CILAI, La Plata, Argentina.
- Oct. 2001 "Periodontal Plastic Surgery" One day course. CILAI, Mendoza, Argentina.
- Nov. 2001 "Periodontal Plastic Surgery". Invited Lecturer. Two hour Seminar. University of Buffalo. School of Dental Medicine.

### **Continuing Education Courses Given:**

- 1997: Hands-On Workshop in Temporomandibular Disorders & Orofacial Pain. General Practitioners. University Of Buffalo, Buffalo, N.Y.
- 1998: Lecturer : "Advanced Implantology" 3 hour course. Harvard School of Dental Medicine. Argentinean Group
- 1999: Lecturer. " Results in Human Studies with Regeneration". Japanese Group
- 1999: Lecturer/Instructor. "Hands-On Lab Experience in Flap Design, and suturing techniques in periodontal surgery". Italian group
- 2000: Lecturer: "How to read clinical journals". Italian, Japanese and Taiwanese group.
- 2002: Lecturer. "Analysis of Clinical Research" Italian group.
- 2003-2004 Advances in Oral Health: Antiseptic Mouthrinses, Speaker for Pfizer.

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### **REPORT OF CLINICAL ACTIVITIES**

- 2004- Periodontist, The Periodontal Implant Institute, McLean VA.
- 2003-2004 Periodontist, Kenneth Qiu DDS, PC, Herndon VA.
- 1998-2003 Periodontist, Harvard Dental Center. Boston, MA.
- 1997-1998 Periodontist, Periodontal Disease & Implant Research Clinic, University Of Buffalo.
- 1993-1997 Periodontal Fellow, Periodontal Disease & Implant Research Center, University Of Buffalo.
- 1986-1989 Private Practice, General Dentistry. Lima, Peru.

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### **PUBLICATIONS:**

#### ORIGINAL REPORTS:

- Hausmann E, Allen K, Carpio L, Christersson L, Clerehugh V. Computerized methodology for detection of alveolar crestal bone loss from serial intraoral radiographs. J Periodontol 1992; 8:657-662.
- Carpio L, Hausmann E, Dunford R, Allen K, Christersson L. Evaluation of a simple modified radiographic alignment system for routine use. J Periodontol 1994; 65: 63-67.
- Allen K, Hausmann E, Kutlubay M, Loza J, Carpio L, Ortman L, Wobschall D. Studies of the angular reproducibility of positioning patients adjacent to an X-ray tube: 1. Stent-rod based and extra-oral systems. J Periodontal Res 1994; 29: 174-178.
- Loza J, L Carpio , G. Lawless, N. Marzec, R Dziak. Role of extracellular calcium influx in EGF-induced osteoblastic cell proliferation. Bone 1995; 16: 341S-347S.
- Carpio L, Dziak R. Activation of phospholipase D signaling pathway by epidermal growth factor in osteoblastic cells. J Bone Miner Res 1998; 13: 1707-1713.
- Carpio LC, Dziak R. Effects of Phosphatidic acid on cytosolic calcium levels and proliferation in normal rat osteoblastic cells. Prost Leukotr & Ess Fatty Ac 1998; 59: 101-109.
- Loza J, Carpio L, Bradford P, Dziak R. Molecular characterization of the  $\alpha 1$  subunit of the L-type voltage calcium channel expressed in rat calvarial osteoblasts. J Bone Miner Res 1999; 14: 386-395.

8. Carpio LC, Stephan E, Kamer A, Dziak R. Sphingolipids stimulate cell growth via MAP kinase activation in osteoblastic cells. *Prost Leukotr & Ess Fatty Ac* 1999; 61: 267-73.
9. Carpio LC, Shiau H, Dziak R. Changes in Sphingolipid Levels Induced by Epidermal Growth Factor in Osteoblastic Cells. Effects of These Metabolites on Cytosolic Calcium Levels. *Prost Leukotr & Ess Fatty Ac* 2000; 62(4): 225-232.
10. Carpio LC, Loza J, Lynch S, Genco R. Guided bone regeneration around endosseous implants. A randomized controlled trial comparing resorbable versus non-resorbable barriers. *J Periodontol.* 2000; 71: 1743-49.
11. Magtoto, M, Carpio, L, Allen, S., Loza, J. Osseointegration of a titanium-silver alloy. Submitted.

REVIEW ARTICLES:

1. Carpio L, Cardenas T, Vizcarra C. Antibiotic therapy in Periodontal Disease: A Literature review. *J Peruv Acad Stomatol* 1987; XLI: 13-20.
2. Loza J, Carpio L, Dziak R. Osteoporosis and its relationship to oral bone loss. *Current Opinion in Periodontology* 1996; 3: 27-33.

BOOKS, EDITORIALS AND MONOGRAPHS:

1. Carpio L. Socio-Economic/Epidemiologic Diagnosis of caries and periodontal disease in Tinyari Grande, Hyo. Peru. Cayetano Heredia Peruvian University; Lima Peru. 1985.
2. Carpio L. Melanosis. Cayetano Heredia Peruvian University; Lima Peru. 1986.
3. Carpio L, Dziak R. Plasminogen Activators in Osteoblastic Cells. Chapter 12. In: Fibrinolysis in Disease, The Malignant Process, Interventions in Thrombogenic Mechanisms, and Novel Treatment Modalities. Pia-Glas-Greenwalt. CRC Press, pp. 71-76, 1995.
4. Carpio, L. "Call for Commentary", No strong Evidence Supports the Efficacy of Potassium Nitrate Toothpaste for Dentin Hypersensitivity. November. 2001. Vol 3 No 1.

THESIS:

1. Carpio LC. Frequency of physiologic melanic pigmentation in oral tissues occurring in infants and children of prepuberal and puberal ages. (dissertation for B.S. Degree). Lima, Peru. Cayetano Heredia Peruvian University; 1988.
2. Carpio LC. Factors influencing the reproducibility of Radiographic Alveolar Crest Measurements. (dissertation for MS Degree). Buffalo (NY); University of Buffalo; 1992.
3. Carpio LC. Lipid Signaling Pathways in Osteoblastic Cells. (dissertation for Ph.D. Degree). Buffalo (NY); University of Buffalo; 1998.

ABSTRACTS (selected):

1. Carpio LC, Dunford RG, Hausmann E, Allen KM. Reproducibility of radiographic alveolar crest measurements. *J Dent Res* 1990 70: # 128.
2. Carpio LC, Dunford RG, Hausmann E, Christersson, LA. Effect of changes in the x-ray beam angulation on radiographic alveolar crest measurements. *J Dent Res* 1992 71: #695.
4. Carpio L.C; Dunford R.; Hausmann E.; Allen K., O. Shibley & Christersson L.(1992) Evaluation of a Simple Radiographic Alignment System Appropriate for Routine Clinical and Research Use. *Journal of Dental Research*.72: Special Issue. IADR. Abstract # 858.
5. Carpio , L.C.; Loza, J.L. and Dziak, R. (1993) Effects of Epidermal Growth Factor on Cytosolic Calcium Levels and Phosphoinositide Metabolism in Normal Rat Osteoblastic Cells. *Journal of Bone and Mineral Research*. Vol 8 (1). August issue. Abstract # 748.
6. Carpio , L.C., Marzec, N. and Dziak, R. (1994) Stimulation of Phospholipase D activity by Epidermal Growth Factor in Normal Rat Osteoblastic Cells. *Journal of Bone and Mineral Research*. Vol 9 (1) August Issue.
7. Carpio L, Tasaki M, Velasco J, McCall WD Jr. Bolus size effects on chewing patterns and masticatory muscle activity. *J Den Res* 1995; 74: 135. # 988.
8. Carpio LC\*, R. Dziak. (1996) Effects of sphingosine on cytosolic calcium levels in normal rat osteoblastic cells. *Journal of Bone and Mineral Research*. Vol 11 (1), August issue. Abstract # 336.
9. Carpio \*, L.C. and Dziak, R. (1997) Phospholipase D signaling pathway in osteoblastic cells. *J. Dental Research*. Special Issue. 76: 341. Abstract # 2617.
10. Carpio LC\*, R. Dziak. (1997) Sphingolipid's effect on cytosolic calcium and proliferation in osteoblastic cells. *Journal of Bone and Mineral Research*. Vol 12 (1), August issue. Abstract # T349.
11. Carpio \*, L.C., Shiau, H. and Dziak, R. (1998) Ceramide effects on normal rat osteoblastic cell proliferation and differentiation. *J. Dental Research*. Special Issue A. 77: Abstract # 1139.
12. Carpio L, Loza J, Lynch S, Genco R. Regeneration around endosseous implants with Bio-Oss®. Comparison between resorbable vs. non-resorbable barriers. American Academy of Osseointegration Annual Meeting. 1998.
13. Szymanowski JS, Ashkar S, Carpio LC. Effects of Bioactive lipids on human gingival keratinocytes proliferation. *J Dent Res* 2000; 79:402; #2072.
14. Szymanowski JS, Ashkar S, Carpio LC. Presence of lysophospholipid receptors in human gingival keratinocytes. *J. Dent. Res.* 2001; 80.

15. Solomon R., Waranuch P., Carpio, LC. Retrospective Analysis of the Prevalence of Antral Mucosal Thickenings and Maxillary Sinus Cysts As Seen On Panoramic Radiographs, Accepted to the AADR annual meeting in San Antonio, March 2003.
16. Shah-Hosseini, N; Ferguson M., Sobel, M., Karimbux, N.; Howell, H., Carpio, L. Utilization of Full-time vs. Part-time Faculty in Clinical Predoctoral Education. 80th Annual Session & Exhibition of the American Dental Education Association. San Antonio, March, 2003.