

## CURRICULUM VITAE

### Pamela Kay McClain, D.D.S.

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#### Professional Education:

<u>Degree</u>	<u>Institution</u>	<u>Year</u>	<u>Major Subject</u>
	Colorado State University	1976-78	Phys/Science
B.S.	University of Colorado	1978-80	Dental Hygiene
D.D.S.	University of Colorado	1981-85	Dentistry
Certificate	University of California San Francisco	1985-87	Periodontology

#### Specialty Board:

Diplomate, American Board of Periodontology - April 1992

#### Licensed to Practice in :

Colorado  
California

#### Private Practice:

Independent, full-time private practitioner in periodontics 1987-present.

#### Academic Appointments:

<u>Position</u>	<u>Institution</u>	<u>Year</u>
Clinical Assistant Professor	University of Colorado School of Dentistry	1987-present
Research Professor	University of Maryland Dental School, Department of Periodontics	1994 - 2001

#### Honors/Awards:

Omicron Kappa Upsilon Honorary Society  
 Alpha Omega International Dental Fraternity Scholarship  
 American Academy of Periodontology Award

Pierre Fauchard Academy Award  
 Graduated Dental School Magna Cum Laude  
 Recipient of the first R. Earl Robinson Periodontal Regeneration Award  
 from the American Academy of Periodontology , October 1989  
 Recipient of the 2004 R. Earl Robinson Periodontal Regeneration Award  
 from the American Academy of Periodontology  
 Recipient of the 2006 R. Earl Robinson Periodontal Regeneration Award  
 from the American Academy of Periodontology  
 Recognized by The Denver Magazine 5280 as a Top Dentist, 2008 - 2013  
 Inducted into the honorary Pierre Fauchard Academy 2012  
 Recipient of "Top 25 Women in Dentistry" September 2012 by Dental Products Report

### **Professional Organizations and Positions Held:**

American Dental Association  
 Colorado Dental Association  
 Metropolitan Denver Dental Society  
 Academy of Restorative Dentistry  
     Clinic Committee, 2006-2007  
     Council Member 2007-2009  
 Academy of Osseointegration  
 American Academy of Periodontology  
     Immediate Past President 2012-2013  
     President 2011-2012  
     President Elect 2010-2011  
     Vice President 2009-2010  
     Secretary/Treasurer 2008-2009  
     Board of Trustees District V, 2002-2008  
     Program Subcommittee Member, 1990, 1992 - 1995  
     Chair, Forum for Clinical Innovations 1995  
     Annual Meeting Committee, 1995 – 1996, Chair 1995  
     Ad Hoc Committee on Regeneration Conference, 1996  
     Participant - World Workshop in Clinical Periodontics, July 1996  
     Continuing Education Oversight Committee, 1997 – 2002, 2004, 2005, 2006, 2008, 2010-2011  
     Chair, 2000, 2001  
     Task Force on Distance Learning 1999-2001  
     Advisory Board to the *Journal of Periodontology* 2001-present  
     Section Chair for Growth Factors, Chemical Root Surface Modifiers and Bone Replacement Grafts  
     for the "2003 Workshop on Contemporary Science in Clinical Periodontics" July 26-29, 2003  
     Task Force to Evaluate the Annual Meeting, 2003-2004  
     Task Force to Meet With the Editor, 2003-2004  
     Planning Committee, Chair, 2004- 2006, chair 2010-2011  
     Task Force for Speaker Recommendations, 2004-2005  
     Task Force on Referral Guidelines, 2005-2006  
     Awards Committee, 2004-2007  
     Nominating Committee, 2004-2007  
     Executive Committee, 2006-2007, 2008-2013  
     Task Force on Membership Values, 2006  
     Foundation Marketing & Communications Task Force, 2006-2007  
     Finance Committee, 2006-2007, 2010-2012, Chair 2008-2009  
     Task Force on Dental Journal Outreach, Chair 2006-2007  
     Task Force on Issues Pertaining to Membership, Chair 2010-2011  
     Task Force on the Workshop on Periodontal Regeneration and Tissue Engineering, Co-Chair 2012-2014

Rocky Mountain Society of Periodontists  
 Secretary/Treasurer, 1991  
 President, 1992  
 Columbine Periodontal Study Club  
 Board of Directors 1993 – present, Chair 1999-present  
 Reviewer for: *Journal of Periodontology*  
*Journal of the American Dental Association*  
*International Journal of Periodontics & Restorative Dentistry*

### Research:

Ongoing participation in practice-based clinical research since 1987

A Randomized, Double-Blind, Controlled, Multicenter Dose Verification Clinical Trial to Evaluate the Safety and Effectiveness of GUIDOR® Growth Factor Enhanced Bone Graft Substitute for the Treatment of Periodontal Defects 6-months Post-Surgery. # CLP- 2011-10-31-1. 2012-2013.

Multi-center Phase 3 Trial of Minocycline HCl 1mg Microspheres for the Use in Subjects with Peri-Implantitis. Protocol # OP-P-5265-1. 2008-2009.

A Randomized, Double Blind, Controlled, Parallel-arm, Pivotal Human Clinical Trial to Evaluate the Safety and Effectiveness of B-TCP Plus for the Treatment of Periodontal Bone Defects. Protocol #BMPI-2001-01. 2002-2006.

Controlled Trial of Minocycline Microspheres; Use as an Adjunct to Surgical Therapy in Patients with Severe Periodontitis. Protocol OPI – 149. 2002 – 2004.

A Post Approval Study for Evaluation of EMDOGAIN® After Multiple Treatments. 1999-2001.

Clinical Outcomes Following Treatment of Human Intrabony Defects with Bioresorbable Membranes or Access Flaps. A Multicenter Randomised Controlled Clinical Trial. Protocol ATRO-96/3. 1996-98.

The Effect of Defect Morphology and Root Configuration on the Closure of Grade II Furcation Defects After Two Years. Protocol #227463-049401. 1995-1999.

A Multi-Center Study to Evaluate Scaling & Root Planing With and Without PTS (Periodontal Therapeutic System) (Tetracycline) in Refractory Patients. Protocol C-89-035-01. 1989-1990

The Effect of Anaerobiosis on *Actinobacillus actinomycetemcomitans*, *in vitro*. 1985-1987, University of California, San Francisco.

### Professional Publications:

Nevins, M, Kao, RT, McGuire, MK, McClain, PK, Hinrichs, JE, McCallister, BS, Reddy, MS, Nevins, ML, Genco, RJ, Lynch, SE, Giannobile, WV. PDGF Promotes Periodontal Regeneration in Localized Osseous Defects: 36 Month Extension Results from a Randomized, Controlled, Double-masked Clinical Trial. *J Periodontol* 2013;84:456-464.

Schallhorn, RA, Charles A, Clem D, McClain PK, Newman MG. A Practice-Based Case Series Evaluation of a Porcine Collagen Matrix to Thicken Soft Tissue, Increase Keratinized Tissue and Improve Esthetics Around Existing Dental Implants. *Clinical Advances in Periodontics* 2012; 28: 1-6.

McClain, PK. Advances in Regeneration: Restoratively Driven, Periodontally Enhanced. *Compendium* November/December 2011; 32:28-34.

McClain, PK. Management of Implant Complications by the Experts; Case 1. Chapter 25, 441 – 444. Dental Implant Complications, Etiology, Prevention, and Treatment, edited by Stuart J. Froum. 2010

Hellstrom M-K, McClain PK, Schallhorn RG, Bellis L, Hanlon AL, Ramberg P. Local Minocycline as an Adjunct to Surgical Therapy in Moderate to Severe, Chronic Periodontitis. *J Clin Periodontol* 2008; 35: 525-531.

David P. Sarmant, Jason W. Cooke, Sarah E. Miller, Qiming Jin, Michael K. McGuire, Richard T. Kao, Pamela K. McClain, Bradley S. McAllister, Samuel E. Lynch, William V. Giannobile "Effect of rhPDGF-BB on Bone Turnover During Periodontal Repair" *Journal of Clinical Periodontology*. Volume 33, Issue 2, Feb 2006

Nevins, M., Giannobile, W.V., McGuire, M.K., Kao, R.T., Mellonig, J.T., Hinrichs, J. E., McAllister, B. S., Murphy, K. S., McClain, P. K., Nevins, M. L., Paquette, D. W., Han, T. J., Reddy, M. S., Lavin, P. T., Genco, R. J. and Lynch, S. E. Platelet-Derived Growth Factor ( rh PDGF- BB) Stimulates Bone Regeneration and Speeds Attachment Level Gain: Results of a Large Multi-center Randomized Controlled Trial. *J. Periodontol.* Dec 2005, Vol. 76, No. 12: 2205-2215.

McClain, P. K. Interdisciplinary Treatment for the Advanced Periodontal and Restorative Case. *General Dentistry*. 2004; 52: 216 – 220..

Froum, S., Weinberg, M., Novak, J., Mailhot, J., Mellonig, J., Van Dyke, T., McClain, P., et al. A Multi-center Study Evaluating the Sensitization Potential of Enamel Matrix Derivative after Multiple Treatments. *J. Periodontol.*, Jul 2004, Vol. 75, No. 7: 1001-1008.

Bowers, G., Schallhorn, R., McClain, P., Morrison, G., Morgan, R., & Reynolds, M. Factors Influencing the Outcome of Regenerative Therapy in Mandibular Class II Furcations: Part I. *J. Periodontol.* 2003; 74:1255-1268.

Carranza, F.A., McClain P.K. and Schallhorn, R.G. Regenerative Osseous Surgery. Chapter 63, 804-824. Clinical Periodontology, Ninth Edition. 2002.

Cortellini, P., Tonetti, M., Lang, N., Suvan, J., Zucchelli, G., Vangsted, T., Silvestri, M., Rossi, R., McClain, P., Fonzar, A., Dubravec, D., & Adriaens, P. The Simplified Papilla Preservation Flap in the Regenerative Treatment of Deep Intra-bony Defects: Clinical Outcomes and Postoperative Morbidity. *J. Periodontol.* 2001;72:1702-1712.

McClain, P.K. and Schallhorn, R.G.: Focus on Furcation Defects: Guided Tissue Regeneration in Combination with Bone Grafting. *Periodontology* 2000. 22:190-212, 2000.

McClain, P.K. and Schallhorn, R.G.: The Use of Combined Periodontal Regenerative Techniques. A Guest Editorial. *J. Periodontol.* 1999;70:102-103

Bowers, G. M., Schallhorn, R.G., McClain, P.K., Morgan, R., Salama, A., & Reynolds, M.A. (1998) Root Configuration and Defect Morphology Predict Regenerative Outcome Of Mandibular Class II Furcations. *Journal of Dental Research*. 77 (Special Issue B), 796.

McClain, P.K.: Periodontal Regeneration. *Dental Economics*, 4:92-93, 1995.

Schallhorn, R.G. and McClain, P.K.: Clinical and Radiographic Healing Pattern Observations with Combined Regenerative Techniques. *Int. J. Periodont. and Rest. Dent.* 14: 391-403, 1994.

McClain, P.K. and Schallhorn, R.G.: Long Term Assessment of Combined Osseous Composite Grafting, Root Conditioning, and Guided Tissue Regeneration. *Int. J. Periodont.*

and Rest. Dent.13:9-27, 1993.

Schallhorn, R.G. and McClain, P.K. : Periodontal Regeneration Using Combined Techniques. Periodontology 2000. 1:109-117, 1993.

Schallhorn, R.G. and McClain, P.K.: Combined Osseous Composite Grafting, Root Conditioning, and Guided Tissue Regeneration. Int. J. Periodont. and Rest. Dent. 4:9-31, 1988

### **Professional Presentations:**

*Regenerative Therapy in Furcation Defects: Advances and Limitations.* June 7, 2013. The 11<sup>th</sup> International Symposium on Periodontics and Restorative Dentistry. Boston, Massachusetts.

*Identification and Management of Peri-Implant Disease.* March 9, 2013. Academy of Osseointegration Annual Meeting. Tampa, Florida.

*Periodontics Update.* January 25, 2013. Rocky Mountain Dental Convention. Denver, Colorado.

*Management and Maintenance of Teeth with Furcation Involvement.* January 25, 2013. Rocky Mountain Dental Convention. Denver, Colorado.

*Collaborative Care for Optimal Patient Outcomes.* August 2, 2012. RDH Under One Roof. Las Vegas, Nevada.

*Advances in Regeneration: Restoratively Driven, Periodontally Enhanced.* May 19, 2012 55<sup>th</sup> Spring Meeting of the Japanese Society of Periodontology. Sapporo, Hokkaido, Japan.

*Periodontics Update: Collaborative Care for Optimal Patient Outcomes.* October 28, 2011. Fugazzotto Study Club. Tyngsboro, Massachusetts

*Collaborative Care for Optimal Patient Outcomes.* September 23, 2011. Colorado Dental Hygienists' Association Annual Meeting. Denver, Colorado.

*Advances in Regeneration: Preserving Periodontally Compromised Teeth.* May 20, 2011. Illinois Society of Periodontists. Oak Brook, Illinois

*Periodontics Update: Collaborative Care for Optimal Patient Outcomes.* January 15, 2011. Rocky Mountain Dental Convention. Denver, CO.

*Evidence Based Periodontal Regeneration and Clinical Applications of Combination Techniques* June 11, 2010. The 10<sup>th</sup> International Symposium on Periodontics & Restorative Dentistry. Boston, MA

*Management and Maintenance of Teeth with Furcation Involvement.* June 10, 2010. The 10<sup>th</sup> International Symposium on Periodontics & Restorative Dentistry. Boston, MA

*Save the Teeth or Extract and Place Implants.* March 5, 2010. Academy of Osseointegration 25<sup>th</sup> Annual Meeting. Orlando, FL.

*Periodontal Regenerative Therapy.* December 2, 2009. Study Club of the Rockies. Loveland, CO.

*Understanding Success and Failure in Periodontal Regeneration.* September 15, 2009. General Session - American Academy of Periodontology Annual Meeting. Boston, MA

*Management of Complex Periodontal Defects With Regenerative Therapy.* August 22, 2009. Gerald M. Bowers Study Club. Baltimore, MD.

*Periodontal Regenerative Therapy.* August 18, 2009. Geistlich. Lucerne, Switzerland.

*Management of Complex Periodontal Defects Using Combination Regenerative Therapy.* February 23, 2009. Post-graduate Lecutre Series UTHSCSA, Department of Periodontology. San Antonio, TX.

*Periodontal Regenerative Therapy.* February 7, 2009. Joint AAO/AAP Mid –Winter Conference. Orlando, FL.

*Periodontal Regenerative Therapy – A Case for Tooth Retention.* September 6, 2008. Dental Hygiene Symposium: American Academy of Periodontology Annual Meeting. Seattle, WA.

*Management of Complex Periodontal Defects Using Combination Regenerative Therapy.* June 22, 2008. The Japanese Academy of Clinical Periodontology Annual Meeting. Tokyo, Japan.

*Preserving Periodontally Compromised Teeth.* May 16, 2008. DPR World 2008. Las Vegas, Nevada.

*Teeth Retention vs. Extraction and Implant Replacement vs. Crown and Bridge Splinting: Perio Perspective.* March 1, 2008. Academy of Osseointegration 23<sup>rd</sup> Annual Meeting. Boston, MA

*Management of Complex Periodontal Defects Using Combination Regenerative Therapy.* February 23, 2008. Midwest Society of Periodontology 51<sup>st</sup> Annual Meeting. Chicago, IL.

*Managing Complex Osseous Defects Using Combination Regenerative Therapy.* February 2, 2008. International Bone Symposium. Las Vegas, Nevada.

*Current Trends in Managing Periodontal Diseases.* January 31, 2008. Yankee Dental Congress 33. Boston, Massachusetts.

*Factors Influencing the Success of Periodontal Regeneration.* October 29, 2007. American Academy or Periodontology Annual Meeting. Washington D.C.

*Managing Complex Osseous Defects Using Combination Regenerative Therapy.* June 8, 2007. The 9<sup>th</sup> International Symposium on Periodontics and Restorative Dentistry. Boston, MA.

*Current Concepts in the Management of Periodontal Disease.* January 20, 2007. Rocky Mountain Dental Convention. Denver, Colorado.

*Periodontal Regenerative Therapy.* January 18, 2007. Southwest Dental Conference. Dallas, Texas.

*Predictable Regenerative Care for Enhanced Teeth Prognoses with Osseous Grafts: Which Recipe to Choose.* September 18, 2006. American Academy or Periodontology Annual Meeting. San Diego, California.

*Periodontal Regenerative Therapy.* August 5, 2006. Academy of General Dentistry Annual Meeting. Denver, Colorado.

*Nonsurgical and Surgical Therapies.* May 11, 2006. Texas Dental Association. San Antonio, Texas.

*Periodontal Regenerative Therapy.* May 11, 2006. Texas Dental Association. San Antonio, Texas.

*Management of Complex Periodontal Defects Using Combination Regenerative Therapy.* April 7, 2006. Northeastern Society of Periodontists. New York, New York.

*Managing Periodontal Disease in 2006.* March 3, 2006. University of Colorado School of Dentistry. Denver, CO.

*Nonsurgical and Surgical Therapies: Where Do They Fit?* February 23, 2006. 141<sup>st</sup> Chicago Dental Society MidWinter Meeting. Chicago, IL

*Periodontal Regenerative Therapy.* Yankee Dental Congress 31. January 28, 2006. Boston, MA

*Combination Therapy in Periodontal Regeneration.* Yankee Dental Congress 31. January 28, 2006. Boston, MA.

*Periodontal Regenerative Therapy.* Dental Hygiene Symposium:Partners in Care. American Academy of Periodontology Annual Meeting. September 24, 2005. Denver, Colorado.

*Interactive General Session: Treatment Planning the Mandibular Molar Class II Furcation with Periodontal Regeneration.* American Academy of Periodontology Annual Meeting. September 27, 2005. Denver, Colorado.

*Periodontal Regenerative Therapy.* Virginia Society of Periodontists. April 8, 2005. Portsmouth, Virginia.

*Nonsurgical and Surgical Periodontal Therapies: Where Do They Fit?* University of Minnesota Continuing Education Program. March 18, 2005. St. Paul Minnesota.

*The Use of Combined Therapy in Periodontal Regeneration.* The 8th International Symposium on Periodontics & Restorative Dentistry. June 10, 2004. Boston, MA.

*Periodontal Reconstructive Therapy.* 134th Annual Session of the Texas Dental Association May 13, 2004. San Antonio, Texas.

*Periodontal Regenerative Therapy.* University of Michigan, Department of Periodontics – Post Graduate Seminar. May 1, 2004. Ann Arbor, Michigan.

*Nonsurgical and Surgical Therapies: Where Do They Fit?* American Dental Association Annual Session. October 23, 2003. San Francisco, California.

*Regenerative Barriers: The Evolution and the Techniques.* American Academy of Periodontology Annual Meeting. September 24, 2003. San Francisco, California.

*Esthetics and Periodontal Therapy.* Chicago Dental Society 138<sup>th</sup> Midwinter Meeting. February 27, 2003. Chicago, Illinois.

*Periodontal Regenerative Therapy.* Chicago Dental Society 138<sup>th</sup> Midwinter Meeting. February 28, 2003. Chicago, Illinois.

*Bone Replacement Grafts in Periodontal Regeneration.* American Academy of Periodontology Annual

Meeting. September 26, 2002. New Orleans, Louisiana.

*Periodontal Reconstructive Therapy.* Fedi Lecture Series of the University of Missouri-Kansas City Alumni Annual Meeting. April 5, 2001.

*Predictable Periodontal Regeneration.* American Academy of Restorative Dentistry. February 25, 2001. Chicago, Illinois.

*Choices in Periodontal Regenerative Therapy.* Post-Meeting Symposium of the American Academy of Periodontology. September 23, 2000. Maui, Hawaii.

*Periodontal Reconstructive Therapy.* Annual Meeting of the Missouri/Kansas Society of Peridontists. April 29, 2000. St. Louis, Missouri.

*An Overview of Periodontal Reconstructive Therapy.* Edmonton and District Dental Society.. February 25, 2000. Edmonton, Alberta. Canada

*Periodontal Reconstructive Therapy.* The Denver Midwinter Dental Convention. Denver, Colorado. January 14, 2000.

*Changing Concepts in Furcation Mangement.* Continuing Education 1999 American Academy of Periodontology Annual Meeting. San Antonio, TX. September 27, 1999.

*Combined Regenerative Therapy.* Postgraduate Education. UCLA Los Angeles, CA. May 21, 1998.

*Current Concepts in Periodontal Therapy.* Russell W. Bunting Periodontal Study Club. Maumee Bay, OH. May 16-17, 1998

*Maintenance Therapy: The Key to Long Term Success.* 1998 AAP Periodontal and Restorative Conference. Chicago, Illinois. May 1998.

*Periodontal Regenerative Therapy.* Baylor Periodontal Study Group. Breckenridge, CO. February 12-14, 1998

*Current Concepts in Periodontal Therapy.* Advanced General Dentistry Mastertrak. New Orleans, LA. January 23-24, 1998

*Regenerative Therapy: It's Much More Than Surgery.* Conference on Regenerative Therapy: Present and Future for The Continuing Education Network, Inc. Williamsburg, VA. December 1997.

*Combined Therapy in Periodontal Regeneration.* American Academy of Periodontology Annual Meeting. San Diego, CA. October 1997.

*Periodontal Regeneration: Past, Present and Future.* Japanese Institute for Advanced Dental Studies. Osaka, Japan. September 1997

*Treatment of an Intrabony Defect using Combined Therapy.* A video presentation. American Academy of Periodontology Annual Meeting. New Orleans, Louisiana. October 1996.

*Successful Periodontal Regeneration.* Intermountain Society of Periodontists Annual Meeting. Salt Lake City, Utah. January 1996.

*Regenerative Therapy Alternatives.* Gruppe A.e.in. Z. Munich, Germany, November 1995.

*Defect Selection for Successful Periodontal Regeneration.* 5th International Symposium on Periodontics and Restorative Dentistry. Boston, MA. June, 1995.

*Periodontal Regeneration.* Canadian Academy of Periodontology Annual Meeting. May, 1995.

*Healing Patterns Associated with Combined Therapy.* American Academy of Periodontology. Conference of Esthetic and Regenerative Therapy. Dallas, TX. April, 1995.

*Periodontal Regeneration: A Team Approach.* Hosted by Periodontal Horizons. San Diego, CA Sept, 1992, Orlando, FL. Sept, 1994. Scottsdale, AZ Mar, 1995.

*Regenerative Therapy: A Team Approach.* American Academy of Periodontology Annual Meeting. San Francisco, CA. Sept, 1994.

*Regenerative Therapy in Furcation Defects.* Northeastern Society of Periodontists. New York, NY. May, 1994.

*Advanced Root Planing: A Practical Course.* American Academy of Periodontology – 1993 Periodontal Disease Management Conference. Boston, MA. July, 1993.

*Current Concepts in Guided Tissue Regeneration.* New Mexico Society of Periodontology. Albuquerque, NM. April, 1993.