

# WALTER C. PEPPELMAN, JR., D.O., FACOS

## CURRICULUM VITAE

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### EDUCATION

**Philadelphia College of Osteopathic Medicine, 1981-1985**

Philadelphia, Pennsylvania

Degree: D.O.

Graduated in top 15% of the class

Activities: Class Treasurer

**Ursinus College, 1977-1981**

Collegeville, Pennsylvania

Degree: B.S. with Honors in Physics

Activities: Varsity Football and Baseball Teams, 1978, 1979

### MEDICAL TRAINING

#### **Fellowship**

**University of Pittsburgh School of Medicine, July 1990 - June 1991**

Pittsburgh, Pennsylvania

Spine Surgery Fellowship

#### **Residency**

**Community General Osteopathic Hospital, July 1986 - June 1990**

Harrisburg, Pennsylvania

Orthopedic Surgery

**Mercy Hospital of Pittsburgh, January 1989 - May 1989**

Pittsburgh, Pennsylvania

Spine Surgery

**The Children's Hospital, Harvard University, January 1988-June 1988**

Boston, Massachusetts

#### **Internship**

**Community General Osteopathic Hospital, July 1985 - June 1986**

Harrisburg, Pennsylvania

### BOARD/MEDICAL LICENSURE

**Board Certified** • American Board of Spine Surgery, September 1998  
Recertified 2004

- American Osteopathic Board Orthopedic Surgery  
Official - February 1994

**Board Fellowship** • American Osteopathic Academy of Orthopedics 1998

- American College of Orthopedic Surgeons 1997

**State of Pennsylvania** - OS-005888L - July 1986

### **HOSPITAL STAFF MEMBERSHIP**

Pinnacle Health System, 1991 to present  
(Harrisburg and Community Osteopathic Campus)

### **HOSPITAL APPOINTMENTS**

**Chairman**, Community General Osteopathic Hospital  
Harrisburg, Pennsylvania  
Department of Orthopedics, 1997

**Chairman**, Community General Osteopathic Hospital  
Harrisburg, Pennsylvania  
Operating Room Committee, 1997

### **PROFESSIONAL SOCIETIES**

American Osteopathic Association  
American Medical Association  
American College of Osteopathic Surgeons  
American Osteopathic Academy of Orthopedics  
American Osteopathic Academy of Orthopedics, President,  
Spinal Section, 1998 - 2000  
American Academy of Orthopedic Surgeons  
Dauphin County Medical Society  
North American Spine Society  
Pennsylvania Osteopathic Medical Association  
Pennsylvania Medical Society  
Pennsylvania Orthopedic Society  
International Society for Advancement of Spine Surgery (ISASS)

### **COURSES**

#### **Advanced Pedicle Fixation of the Lumbar Spine**

Phoenix, Arizona, 1991

#### **Cervical Spine Research Society**

Palm Beach, Florida, 1996

Santa Fe, New Mexico, 1995

Palm Desert, California, 1992

Philadelphia, Pennsylvania, 1991

San Antonio, Texas, 1990

#### **Spine Study Group**

Naples, Florida, 1993

Scottsdale, Arizona, 1991

Orlando, Florida, 1990

Palm Springs, California, 1988

#### **Kaneda Anterior Instrumentation**

Baltimore, Maryland, 1989

**A.O. Spine Course**

Vail, Colorado, 1989

**Luque Spinal Instrumentation Course**

Pittsburgh, Pennsylvania, 1989

**North American Spine Society**

Chicago, Illinois, 2004

San Diego, California, 2003

Montreal, Canada, 2002

New Orleans, Louisiana, 2000

Chicago, Illinois, 1999

New York, New York, 1997

Minneapolis, Minnesota, 1994

Boston, Massachusetts, 1992

**Adult Primary and Reconstructive Spine Surgery Spine Instruction Course**

Nashville, Tennessee, 1987

**Anterior Column Support Thoraco/Lumbar/Cervical Spine**

Gainesville, Florida, 1993

**Anterior Spine Surgery, European Spine Society**

Berlin, Germany, 1995

**American Academy of Orthopedic Surgeons**

Orlando, Florida, 1995

Washington, D.C., 1995

San Francisco, California, 1993

**American Osteopathic Academy of Orthopedics**

Phoenix, Arizona, 2006

Orlando, Florida, 2005

Las Vegas, Nevada, 2003

Orlando, Florida, 2000

Seattle, Washington, 1999

Chicago, Illinois, 1998

Atlanta, Georgia, 1997

Baltimore, Maryland, 1997

San Diego, California, 1996, Chairman, Spinal Section

New Orleans, Louisiana, 1995

Washington, D.C., 1994

Dearborn, Michigan, 1994

**Surgical Training Laparoscopic Spine Surgery, Univ. of Saarlandes**

Homburg/Saar, Germany, 1995

**The 2nd Annual Current Concepts on Surgery of the Spine, The Univ. of Texas Medical Branch at Galveston**

Galveston, Texas, 1996

**BAK Interbody Fusion Course**

Dallas, Texas, 1996

**Surgical Management of Spinal Problems**

New York, New York, 1996

**A Hands-On Bioskills Workshop, BAK Lumbar Interbody Fusion System,**

**American Osteopathic Academy of Orthopedics**

**Program Chairman/ Instructor**

Baltimore, Maryland, 1997

**Osteopathic Orthopedic Educators Course**

Baltimore, Maryland, 1997

**Methods of Interbody Fusion of the Spine**

New York, New York, 1997

**Controversies and Challenges in Spinal Deformities, Thoracolumbar and Cervical Surgery**

Key Largo, Florida, 1998

**Medical Advisory Council Meeting, Sulzer SpineTech**

Orlando, Florida, 1998

**Asian Medical Advisory Board Meeting, Sulzer SpineTech**

Kohalo Coast, Hawaii, 1999

**Eurospine 1999, Spine Society of Europe**

Munich, Germany, 1999

**Worldspine 2000 Conference**

Berlin, Germany, 2000

**Advances in Treating Vertebral Body Compression Fractures, Cleveland Clinic**

Cleveland, Ohio, 2000

**International Conference on Spinal Surgery**

Beijing and Chongqing, China, October, 2002

**Advanced Concepts in Minimally Invasive Vertebral Compression Fracture Management**

Williamsburg, Virginia 2003

**Challenge of the Spine, Annual Meeting & Spine Surgery Review**

**Course, American College of Spine Surgery**

Naples, Florida, September 2003

**Annual Meeting & Spine Surgery Review Course, American College of Spine Surgery**

Phoenix, Arizona, September 2004

**Charite Artificial Disc Comprehensive Training Program**

Cincinnati, Ohio, January 2005

**World Spine III**

Rio de Janeiro, Brazil, August 2005

**Kyphon Solutions Study Group Meeting**

Boston, Massachusetts, June 2007

**Globus Spine Solutions Study Group II**

Boston, Massachusetts, June 2007

**Nuvasive Surgical Technique and Clinical Overview, MaXcess XLIF, XLP Lateral Plate System Training Program**

San Diego, California, December 2007

- Synthes ProDisc Training Program**  
Denver, Colorado, January 2008
- Aesculap's New Perspectives on Spine Surgery Meeting**  
Hollywood, Florida, October 2008
- American Osteopathic Academy of Orthopedics Educators Course**  
Chicago, Illinois, April 2011
- Medtronic/Kyphon Balloon Kyphoplasty Primary Training Course**  
Baltimore, MD May 2011
- Trainer for the Secure C Artificial Disc Surgeon Training Program**  
NASS 2012 Annual Meeting, Dallas, TX  
Orlando, Florida, November 2012  
Audubon, PA Globus Headquarters, November 2012  
Chicago, Illinois, December, 2012  
Miami, Florida, January 2013

## **ABSTRACTS/PRESENTATIONS**

***C.D. Instrumentation in Adolescent Idiopathic Scoliosis, Early Results and Complications:*** Presented at the Scoliosis Research Society Meeting, Paris, France (Presented by John Hall, M.D.) June 1988

***Surgical Treatment of Adolescent Idiopathic Scoliosis:*** Presented at the AAOS Academy Meeting, St. Louis, Missouri, September 1989.

***Incidence of Subaxial Subluxation in Patients with Generalized Rheumatoid Arthritis Who Have Had Previous Occipital Cervical Fusions:*** Presented at the Cervical Spine Research Society, San Antonio, Texas, November 1989.

***The Use of Allograft Fibular Bone in Anterior Cervical Interbody Fusions:*** Presented at the Sixth Annual Meeting of the North American Spine Society, Keystone, Colorado, August 1991.

***Development of Recurrent C-Spine Instability in Rheumatoid Arthritis Following Previous Fusion:*** Presented at American College of Rheumatology, Baltimore, Maryland, April 1991

***Cervical Spine Surgery in Rheumatoid Arthritis: Improvement of Neurological Deficit Following Cervical Spine Fusion:*** Presented at the Sixth Annual Meeting of the North American Spine Society, Keystone, Colorado, August 1991.

***Cervical Spine Surgery in Rheumatoid Arthritis: Improvement of Neurological Deficit Following Cervical Spine Fusion:*** Presented to the British Society of Rheumatology Annual Meeting, London, England, September 1991.

***Development of Recurrent Cervical Spine Instability in Rheumatoid Arthritis Following Previous Fusion:*** Presented at the American College of Rheumatology Annual Meeting, Boston, Massachusetts, November, 1991.

***Cervical Spine Surgery in Rheumatoid Arthritis: Improvement of Neurological Deficit Following Cervical Spine Fusion:*** Presented to the Cervical Spine Research Society, Philadelphia, Pennsylvania, December, 1991.

***The Use of Allograft Fibula in Anterior Cervical Interbody Fusion:*** Presented to the Cervical Spine Research Society, Philadelphia, Pennsylvania, December, 1991

***Development of Recurrent C-Spine Instability in Rheumatoid Arthritis Following Previous Fusion:*** Presented at American College of Rheumatology, Baltimore, Maryland, April, 1991.

***Subaxial Subluxation Occurring in Patients with Rheumatoid Arthritis Who Have Had Previous Proximal Cervical Fusion:*** Presented at the Academy of Orthopedic Surgeons Annual Meeting, Washington, D.C., February, 1992.

***Subaxial Subluxation Occurring in Patients with Rheumatoid Arthritis Who Have Had Previous Proximal Cervical Fusion:*** Presented to American Academy of Orthopedic Surgeons, April, 1992.

***Symptomatic Metastatic Malignant Melanoma to the Spine:*** Presented to the Western Orthopedic Association Annual Meeting, Monterey, California (Presented by William Donaldson, M.D.), October, 1992

***Cervical Spine Surgery in Rheumatoid Arthritis: Improvement of Neurological Deficit Following Cervical Spine Fusion.*** Presented to American Academy of Orthopedic Surgeons, San Francisco, California, February, 1993.

***Treatment of the Rheumatoid Cervical Spine:*** Presented to American Academy of Orthopedic Surgeons, San Francisco, California, October, 1993.

***Orthopedics of Lawyers:*** Presented at the PESI Seminar, Philadelphia, Pennsylvania, January, 1994.

***TSRH Spinal Instrumentation:*** Lab Instructor for the Sofamor Danek Group, Inc., 1993-1994.

***Surgical Management of Spinal Disorders:*** Harrisburg, Pennsylvania, September, 1995.

***Use of Anterior Cervical Plating, Early Clinical Evaluation of the Empower Lumbar System:*** Galveston, Texas, June, 1996.

***Surgical Intervention of Spinal Cord Injury:*** Presented at AOA/ACONP 101st Annual Convention and Scientific Seminar, Las Vegas, Nevada, October, 1996

***Use of Anterior Cervical Plating and Its Effects on Postoperative Radiographic Evaluation:*** Presented at the Cervical Spine Research Society, Palm Beach, Florida, December, 1996

***Rheumatoid Arthritis of the Neck: Clinical Manifestation, Evaluation and Treatment (Medical and Surgical):*** Cape Town, South Africa, March, 1997

***The Use of Anterior Cervical Plating: Its Current Indications and Results from Clinical and Radiographic Studies:*** Cape Town, South Africa, March, 1997

***Lumbar Fusion Cages:*** Presented to the American Osteopathic Academy of Orthopedics, Baltimore, Maryland, May, 1997

***Carbon Cages:*** New York, New York, December, 1997

***ALIF Approaches and Exposure:*** New York, New York, December, 1997

***Cages and Competitive BGS:*** Presented at the Orthofix, Inc. National Sales Meeting, Phoenix, Arizona, 1998

***How to Read an X-ray:*** Presented at the Orthofix, Inc. National Sales Meeting, Phoenix, Arizona, 1998

***Bone Graft Materials: Which is Best - Autograft or Allograft?*** Key Largo, Florida, April 1998

***Anterior Cervical Plating and Its Effect on Postoperative Radiographic Evaluation:*** Presented at the NASS/APS Spring Meeting, Charleston, South Carolina, April 1998

***Anterior Cervical Plating and Its Effects on Postoperative Clinical Outcomes:*** Presented at the NASS/APS Spring Meeting, Charleston, South Carolina, 1998

***Posterior Segmental Instrumentation Silhouette Training:*** Presented at the Sulzer SpineTech Eastern Area Silhouette Training Course, Miami, Florida, 1999

***Silhouette Spinal Fixation System:*** Presented at the Sulzer SpineTech Spine Fellowship Education Program, Braselton, Georgia, May 1999

***Silhouette Posterior Pedicle Screw Instrumentation: Indications and Technique:*** Presented at the Sulzer SpineTech Asian Medical Advisory Board Meeting, Kohalo Coast, Hawaii, June 1999

***Bone Substitute Materials: New Biologics in Development:*** Presented at the Sulzer SpineTech Asian Medical Advisory Board Meeting, Kohalo Coast, Hawaii, June 1999

***Current Trends in Posterior Lumbar Fixation:*** Presented at Yale University, Orthopedic/Neurosurgeons, December 1999

***Spinal Anatomy/Future of Spine Surgery:*** Presented at the Orthofix, Inc. 2000 National Sales Meeting, San Diego, California, January 2000

***The Spinal Fusion:*** Presented at the Orthofix, Inc. 2000 National Sales Meeting, San Diego, California, January 2000

***Current Concepts of Spinal Fixation:*** Presented at the Orthofix, Inc. Regional Sales Meeting, Asheville, North Carolina, August 2000

***Posterior Spinal Fixation with the Silhouette Pedicle Screw System:*** Presented at the World Spine 2000 Conference, Berlin, Germany, August 2000

***Anterior Lumbar Interbody Fusion with paired BAK Proximity and paired BAK Standard Cages: Subsidence Incidence and Clinical Outcome:*** Oral poster presentation to the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, Arizona, February 2001

***Vertebral Kyphoplasty for Osteoporotic Compression Fractures:*** Presented to PinnacleHealth Hospitals, Medical Education Day, Harrisburg, Pennsylvania, March, 2001

***Anterior Lumbar Interbody Fusion with paired BAK Proximity and paired BAK Standard Cages: Subsidence Incidence and Clinical Outcome:*** Presented to PinnacleHealth Hospitals, Medical Education Day, Harrisburg, Pennsylvania, March 2001

***Anterior Lumbar Interbody Fusion with paired BAK Proximity and paired BAK Standard Cages: Subsidence Incidence and Clinical Outcome:*** Poster presentation North American Spine Society, November 2001

***Radiographic Assessment of Interbody Lumbar Interbody Fusion:*** "The Cage-O-Gram," Presented to the North American Spine Society, November 2001

***Inflatable Bone Tamp Uses in Cancellous Bone:*** Presented at the Kyphon Training Course, Phoenix, Arizona, November 2001



***The Future of Spinal Surgery:*** Presented to PinnacleHealth Hospitals, Medical Education Day, Harrisburg, Pennsylvania, April 2002

***Effect of Interbody Cage Geometry and Porosity on the Success of Interbody Spinal Fusion:*** Presented to the Scoliosis Research Society, Seattle, WA, September 2002

***Posterior Lumbar Interbody Fusion with Posterior-Oblique Lumbar Arthrodesis (POLAr): Indications and Outcome:*** Presented at the International Conference on Spinal Surgery, Beijing, China, October 2002

***Anterior Lumbar Interbody Fusion with paired BAK Proximity and paired BAK Standard Cages: Subsidence Incidence and Clinical Outcome:*** Presented at the International Conference on Spinal Surgery, Beijing, China, October 2002

***Anterior Lumbar Interbody Fusion with paired BAK Proximity and paired BAK Standard Cages: Subsidence Incidence and Clinical Outcome:*** Presented at the International Conference on Spinal Surgery, Chongqing, China October 2002

***Assessment of Lumbar Interbody Fusion Status by Discogram Technique: Rate of Concordant Pain Response, Determination of Pseudarthrosis and Results of Revision Surgery:*** Presented to the North American Spine Society, Montreal, Canada, October 2002

***Posterior Lumbar Fusion with Posterior-Oblique Lumbar Arthrodesis (POLAr): Indications and Outcome:*** Presented to PinnacleHealth Hospitals, Medical Education Day, Harrisburg, Pennsylvania, February 2003

***Assessment of Lumbar Interbody Fusion Status by Discogram Technique: Rate of Concordant Pain Response, Determination of Pseudarthrosis and Results of Revision Surgery:*** Presented to PinnacleHealth Hospitals, Medical Education Day, Harrisburg, Pennsylvania, February 2003

***Managing VCFs Past, Present and Future:*** Presented at the Kyphon Training Course, Williamsburg, Virginia, June 2003

***Patient Selection: Medical vs. Surgical Management:*** Presented at the Kyphon Training Course, Williamsburg, Virginia, June 2003

***Maximizing Fracture Reduction:*** Presented at the Kyphon Training Course, Williamsburg, Virginia, June 2003

***Beyond Osteoporosis: Metastatic Bone Disease and Multiple Myeloma:*** Presented at the Kyphon Training Course, Williamsburg, Virginia, June 2003

***Effect of Interbody Cage Geometry and Porosity on the Success of Spine Fusion:*** Presented at the World Spine II, Chicago, Illinois, August 2003

***Spinal Fusions in High Risk Patients:*** Presented at the 1<sup>st</sup> Annual Orthofix Spine Symposium, Dallas, Texas, September 2003

***Vertebroplasty and Kyphoplasty:*** Presented at the Annual Meeting & Spine Surgery Review Course, American College of Spine Surgery, Naples, Florida September 2003

***Clinical Results on Degenerative Lumbar Spine Surgery by Using the S4 Spinal System & Allograft:*** Presented At the Forefront of Clinical Practice in Spine Surgery, Treatment of the Degenerative Lumbar Spine, Nago, Okinawa, Japan, March 2005

***Design Criterias & Development of an Innovative Posterior Fixation System:*** Presented At the Forefront of Clinical Practice in Spine Surgery, Treatment of the Degenerative Lumbar Spine, Nago, Okinawa, Japan, March 2005

***Feasibility Results of a Novel Anular Repair Device in a Goat Model:*** Presented at the 18<sup>th</sup> Annual Meeting of the International Intradiscal Society (IITS), San Diego, California, May 2005

***Clinical Experience Using a Novel Bio-Ceramic For Treating Vertebral Compression Fractures in Vertebroplasty and Kyphoplasty; Report on the First 40 Patients:*** Presented at IMAST, July 2005

***Feasibility Results of a Novel Anular Repair Device in a Goat Model:*** Presented at World Spine III, Rio de Janiero, Brazil, August 2005

***A Prospective, Randomized Evaluation of Low Profile versus Standard Profile Pedicle Screw Constructs: Does size really matter?:*** Presented as a poster presentation at World Spine III, Rio de Janiero, Brazil, August 2005

***Characteristics and Clinical Experience Using a Novel Bio-Ceramic for Treating Vertebral Compression Fractures in Vertebroplasty and Kyphoplasty: Report on the First 40 Patients:*** Presented at the North American Spine Society, Philadelphia, PA, September 2005

***Anterior Cervical Fusion with Variable Angle Screw Instrumentation: Selective Subsidence and Lordosis Progression:*** Presented at the North American Spine Society, Philadelphia, PA, September 2005

***Evaluation of a Mesh Device to Repair the Anulus Fibrosus:*** Presented at the 13<sup>th</sup> International Meeting on Advanced Spine Techniques (IMAST), Athens, Greece, July 2006

***Use of Trabecular Metal in Spine Surgery:*** Presented at Zimmer Spine Trabecular Metal Technology Symposium, Parsippany, NJ, April 2006

***Emergency Technologies: Development of Anular Repair:*** Presented at the Globus Shoal Creek Roundtable Symposium, Shoal Creek, Alabama, June 2006

***Pseudarthrosis:*** Presented at the Globus Shoal Creek Roundtable Symposium, Shoal Creek, Alabama, June 2006

***Use of Trabecular Metal in Spine Surgery:*** Presented at Zimmer Spine Trabecular Metal Technology Symposium, Atlantic City, NJ, July 2006

***Use of Trabecular Metal in Spine Surgery:*** Presented at Zimmer Spine Trabecular Metal Technology Symposium, Parsippany, NJ, July 2006

***Use of Trabecular Metal in Spine Surgery:*** Presented at Zimmer Spine Trabecular Metal Technology Symposium, Parsippany, NJ, May 2007

***Pre-Clinical Evaluation of a Mesh Device for Repairing the Anulus Fibrosus:*** Submitted for presentation at the SAS7 Meeting, Berlin, Germany, 2007

***Pre-Clinical Evaluation of a Mesh Device for Repairing the Anulus Fibrosus:*** Presented at the North American Spine Society, Austin, Texas, October 2007

***Use of Trabecular Metal in Spine Surgery:*** Presented at Zimmer Spine Trabecular Metal Technology Symposium, Columbus, Ohio, October 2007

***Advantages of S4 with Mini-Open Approach:*** Presented at the Aesculap New Perspectives on Spine Surgery Meeting, Miami, Florida, October 2007

***Cervical Fusion vs. Artificial Cervical Disc:*** Presented at the Medical Education Day at Pinnacle Health, Harrisburg, Pennsylvania, April 2008

***A Prospective Study of Tantalum Trabecular Metal in Lumbar Interbody Fusion:*** Presented as a poster presentation at the American Academy of Orthopedic Surgeons, Boca Rotan, Florida, September 2008

***Radiographic Outcomes Following Cervical Disc Arthroplasty Compared to Anterior Cervical Discectomy and Fusion in a Prospective Randomized Study:*** Presented at the North American Spine Society, Toronto, Canada, October 2008

***S4 System Development: Current and Future Applications:*** Presented at Aesculap's New Perspectives on Spine Surgery Meeting, Hollywood, Florida, October 2008.

***Advances in MIS Instrumentation: introduction of Aesculap Spyder Retractor:*** Presented at Aesculap's New Perspective on Spine Surgery Meeting, Hollywood, Florida, October 2008.

***A Biomechanical Comparison of Integrated vs. Variable Cross-Connectors and Dual-Diameter vs. Single Diameter Screw Constructs at L5-S1:*** Presented at the North American Spine Society, San Francisco, CA, November 2009.

***A Clinical Comparison of a Cervical Artificial Disc and Anterior Cervical Discectomy and Fusion in a Prospective Randomized Trial: Two-Year Follow-up:*** Presented at the North American Spine Society, San Francisco, CA, November 2009.

***Clinical Outcomes with Porous Tantalum in Lumbar Interbody Fusion:*** Presented at North American Spine Society, Orlando, Florida, October 2010.

***2-year Multicenter Follow-up in a Prospective Randomized Clinical Trial: Comparison of a Cervical Artificial Disc to an ACDF Treatment:*** Presented at the North American Spine Society, Orlando, Florida, October 2010.

***A Prospective, Randomized, Pivotal Study of the Secure-C Cervical Artificial Disc: Two Year Outcomes,*** W. Beutler, W. Peppelman, J.M. Marzluff, C. Tomaras, I. Volcan, P. Asdourian, J. McConnell, K. Baker, J. Myer. Presented at SAS 2011, Las Vegas, NV.

***Radiographic Outcomes Following Cervical Disc Arthroplasty Compared to Anterior Cervical Discectomy and Fusion in a Prospective Randomized Study,*** W. Peppelman, W. Beutler, J. McConnell, K. Baker, J. Myers. Presented at SAS April 2011, Las Vegas, NV.

***Novel Anterior versus Combined Anterior-posterior Instrumentation Technique for a Simulated Bilateral Cervical Facet Dislocation: An in-vitro Human Cadaver Study,*** W. Beutler, W. Peppelman, M. Gudipally, M. Adu-Lartey, J. Brooks, P. Niknam, S Khalil. Presented at ISASS Annual Meeting 2012, Barcelona, Spain.

***Secure-C Cervical Artificial Disc: Outcomes from a Prospective, Randomized IDE Study at 24 Months and Beyond,*** W. Beutler, W.C. Peppelman, J.M. Marzluff, C. Tomaras, I. Volcan, P. Asdourian, J. Myer, K. Baker. Presented at ISASS Annual Meeting 2012, Barcelona, Spain.

*Development of the da Vinci Robotic Assisted Anterior Lumbar Interbody Fusion*, William J. Beutler, M.D., Luciano A. DiMarco, D.O., Walter C. , Peppelman, Jr., D.O., (Presented to Pinnacle Health Hospitals, Medical Education Day, Harrisburg, Pennsylvania, May 2012).

*“Cervical Arthroplasty with the SECURE-C Cervical Artificial Disc: A Superior Option”*, William Beutler, MD, Walter c. Peppelman, Jr., D.O., Joseph Marzluff, M.D., Christopher Tomaras, M.D., Ildemaro Volcan, M.D., Paul Asdourian, M.D., Jacqueline Myer, Kelly Baker, PhD. (Presented at North American Spine Society’s 27th Annual Meeting, Dallas, Texas, October 2012).

*“The Role of Cervical Arthroplasty in Reducing the Incidence of Secondary Surgery”*, William Beutler, M.D., Walter C. Peppelman, Jr., D.O., James Lindley, Jeffrey McConnell, M.D., Jacqueline Myer, Kelly Baker PhD. (Presented at North American Spine Society’s 27th Annual Meeting, Dallas, Texas, October 2012).

**“The da Vinci Robotic Surgical Assisted Anterior Lumbar Interbody Fusion: Technical Development and Case Report”** William Beutler, M.D., Walter C. Peppelman, Jr., D.O., Luciano DiMarco, D.O. (Presented at ISASS 2013, Vancouver, BC.)

**“SECURE-C Cervical Artificial Disc IDE Clinical Trial: Outcomes at Two and Five Year”**, W.J. Beutler, W.C. Peppelman, J. Marzluff, C. Tomaras, I. Volcan, P. Asdourian, K. Baker, J. Myer. (Presented at ISASS 2013, Vancouver, BC).

**“Does Preservation of Motion in the Cervical Spine after Treatment with the SECURE-C Artificial Disc Result in Fewer Subsequent Surgical Interventions?”** J. McConnell, W.J. Beutler, W.C. Peppelman, J. Marzluff, J. Highsmith, J. Lindley, K. Baker, J. Myer. (Poster presented at ISASS 2013, Vancouver, BC).

**“An in vitro Evaluation of Fracture Reduction Achieved by Two Inflatable Balloon Tamps under Stimulated Physiological Load”**, M. Gordon, W. Beutler, W.C. Peppelman, S. R. Chinthakunta, D.O. Holloran, (Poster presented at ISASS 2013, Vancouver, BC).

**“Effect of an Outer Sleeve on an Inflatable Balloon Tamp in Terms of Height Restoration under Simulated Physiological Load”**, M. Gordon, W. Beutler, W.C. Peppelman, S.R. Chinthakunta, D.O., Holloran, (Poster presented at ISASS 2013, Vancouver, BC).

**PUBLICATIONS**

Peppelman, W.C., Grossman, W., Baum, J.A., Kraus, D.R. “Anterior Cervical Fusion: The Use of Freeze Dried Fibular Allograft Bone”. *Pittsburgh Orthopedic Journal*, 2: 70-73, 1991.

Grossman, W., Peppelman, W.C., Kraus, D.R., Baum, J.A. “The Use of Freeze Dried Fibular Allograft for Anterior Cervical Fusions”. *Spine*, 17(05) 565-569, 1992.

Kraus, D.R., Peppelman, W.C., Agarwal, A.K., DeLeeuw, H.W., and Donaldson, III, W.F., “Incidence of Subaxial Subluxation in Patients with Generalized Rheumatoid Arthritis Who Have Had Previous Occipital Cervical Fusions”. *Spine*, 16(105) 5486-5489.

Peppelman, W.C., Agarwal, A.K., Donaldson, III, W.F., and Kraus, D.R., “Cervical Spine Surgery in Rheumatoid Arthritis Improvement in Neurologic Deficit Following Cervical Spine Fusion”. *Spine*, 18(16) 0362-2436, December 1993.

Agarwal, A.K., Peppelman, W.C., Kraus, D.R., Eisenbeis, C.H. “The Cervical Spine in Rheumatoid Arthritis”. *British Medical Journal*, 306, January 1993

Agarwal, A.K., Peppelman, W.C., Kraus, D. R., “Recurrence of Cervical Spine Instability in Rheumatoid Arthritis Following Previous Fusion: Can Disease Progression be Prevented by Early Surgery?” *Journal of Rheumatology*, 19(9), September 1992.

Donaldson, W.F., Peppelman, W.C., Yaw, K.M., “Symptomatic Metastatic Malignant Melanoma to the Spine”. *Journal of Spine Disorders*, 6:4 November 1993.

Beutler, W.J., Dunn, L., Peppelman, W.C., “Radiographic Assessment of Interbody Lumbar Interbody Fusion: The Cage-O-Gram”. *The Spine Journal*, 2(2S) 28S, March/April 2002

Beutler, W.J., Peppelman, W.C., “Anterior Lumbar Fusion with Paired-BAK Standard and Paired-BAK Proximity Cages: Subsidence Incidence, Subsidence Factors, and Clinical Outcome”. *The Spine Journal*, 3(4) 289-293, July/August 2003

Beutler, W.J., Peppelman, W.C., “Aesculap Shadow Posterior Segmental Instrumentation System,” *Spinal Instrumentation: Surgical Techniques*. New York: Theime; 2005: 868 – 873, (Chapter Book)

Cauthen, J.D., Sherman, J.E., Davis, R.J., Peppelman, W.C., Yonemura, K.S., Griffith, S.L., "Repair of the Anulus Fibrosus (Anuloplasty) After Lumbar Discectomy," *Nonfusion Techniques for the Spine: Motion Preservation and Balance*. St. Louis: Quality Medical Publishing, 2006: 1 – 18, (**Chapter Book**)

Yonemura K, Sherman J, Peppelman W, Griffith SL, Davis R, Cauthen JC. "Improving the Outcome of Discectomy with Specific Attention to the Anulus Fibrosus". Chapter In: *Innovations in Spinal Reconstruction-Clinical Examples of Basic Science, Biomechanics, and Engineering*. New York, NY: Taylor & Francis Group LLC, 2006 (**Chapter Book**)

Malloy, John P., Beutler, William, Peppelman, Harris, Ryan, Slotkin, Eric Gillete, Jeff, "**Clinical Outcomes with Porous Tantalum in Lumbar Interbody Fusion,**" The Spine Journal, September 2009, Vol 10, Issue 9S, Supplement page S147-S148.

McConnell, Jeffrey, Marzluff, Joseph, Tomaras, Christopher, Volcan, Ildemaro, Goodrich, Allan, Peppelman, Walter, Beutler, William, Asdorian, Paul L., Baker, Kelly "**A Clinical Comparison of a Cervical Artificial Disc and Anterior Cervical Discectomy and Fusion in a Prospective Randomized Trial: Two-Year Follow-up,**" The Spine Journal, October 2009, Vol 9, Issue 10, Supplement, Pages 190S-191S.

Beutler, William, Peppelman, Walter, Reuben, Jeff, Muzumdar, Aditya, Ingahalikar, Aditya, Bucklen, Brandon, Moldavsky, Mark, Khalil, Saif, "A Biomedical Comparison of Integrated vs. Variable Cross-Connectors and Dual-Diameter vs. Single Diameter Screw Constructs at L5-S," The Spine Journal, October 2009, Vol 9, Issue 10, Supplement, Pages 197S-198S.

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Beutler, W.J., Peppelman, W.C., "**Clinical Experience Using Cortoss for Treating Vertebral Compression Fractures with Vertebroplasty and Kyphoplasty.**" Spine. Volume 35, No. 20, P1030-1036, 2010.

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**Examiner - Adverse Events, Zimmer Spine Synesys IDE Clinical Trial Data Safety Monitoring Board**

**PERSONAL DATA**

Date of Birth: February 14, 1959  
Marital Status: Married - Kathleen  
Children: Four Sons

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