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SYLVAIN PALMER MD FACS FAANS

Education

1970-1972 Cornell University, Ithaca, New York
1972-1974 Bachelor of Arts, Johns Hopkins University, Baltimore, Maryland
1972-1977 Doctor of Medicine, Johns Hopkins University Medical School, Baltimore, Maryland,
1976-1977 Surgical Internship, Johns Hopkins Hospital, Baltimore, Maryland,
1977-1981 Neurosurgical Residency, Johns Hopkins Hospital, Baltimore, Maryland

Awards received

1971 Laubengayer Award in Chemistry, Cornell University

1974 Phi Beta Kappa, Johns Hopkins University

1977 Alpha Omega Alpha, Johns Hopkins University Medical School

2000 Ernest B. Codman Award, JCAHO, for the Treatment of Severe Head Injury

2001 Innovision Award, American Association of Critical-Care Nurses, for the Treatment of Severe Head Injury

2001 American Association of Neurological Surgeons and Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves First Place Poster Sessions Award, Minimally Invasive Posterior Lumbar Interbody Fusion: Initial Experience, Jeffrey D. Gross, MD, Sylvain Palmer, MD

2002 Innovations in Clinical Excellence Award. Using a FOCUS-PDCA Quality Improvement Model for Applying the Severe Traumatic Brain Injury Guidelines to Practice: Process and Outcomes. Honor Society of Nursing, Sigma Theta Tau International.

2008 MHRMC Sister Martha Fitzpatrick Vision Award: for excellence in trauma care and service to the community.

Languages

English, French, Spanish

Accreditations

1986 Board Certified Neurological Surgery

Memberships in Professional Organizations

American Association of Neurological Surgeons

Congress of Neurological Surgeons

Joint Section of Disorders of Spine and Peripheral Nerves

Joint Section of Trauma and Intensive Care

Fellow of the American College of Surgeons

Society of Neurological Surgeons of Orange County; Secretary-Treasurer 1984-1986, Vice President 1986-1987, President 1987-1988

Former faculty, Visiting Surgeon Program, Medtronic Sofamor Danek, Memphis, TN

Former faculty, Guest Lecturer Program, Integra Health Systems, Plainsborough, NJ.

Referee/Reviewer Yonsei Medical Journal

Editorial Review Board "Scientifica", Hindawi Publishing Corporation

Editorial Review Board "Neurocritical Care"

Hospital Affiliations

University of California Irvine, Assistant Clinical Professor of Neurosurgery. January 2003-2008.

University of California-Los Angeles School of Nursing, Assistant Clinical Professor 2002-2012.

Mission Hospital and Regional Medical Center; Board of Trustees 1992-1998, Secretary-Treasurer of the Medical Staff 1998-1999, Vice Chief of the Medical Staff 2000, Chief of Staff 2001. Staff member 1981 till present

Saddleback Memorial Medical Center, staff member 1981 till present

Publications & Presentations

Palmer S: Vertebralbasilar Insufficiency from Carotid Disease Associated with a Trigeminal Artery. *Neurosurgery*, 1981, April; 8(4): 458-461

Bader MK, Littlejohns L, Palmer S: Ventriculostomy and Intracranial Pressure Monitoring: In Search of a 0% Infection Rate. *Heart & Lung*, March/April, 1995

Bader MK, Palmer S: Keeping the Brain in the Zone: Applying the Severe Head Injury Guidelines to Practice. *Critical Care Nursing Clinics of North America*, December, 2000, 12:4, 413-427.

Palmer S, Bader MK, Qureshi A, Palmer J, Shaver T Borzatta M, Stalcup C: The impact of Using the Traumatic Brain Injury Guidelines on Outcomes in a Community Hospital Setting. *Congress of Neurological Surgeons*, September, 2000.

Palmer S, Bader MK, Qureshi A, Palmer J, Shaver T Borzatta M, Stalcup C: The impact of Using the Traumatic Brain Injury Guidelines on Outcomes in a Community Hospital Setting. *Journal of Trauma*, April, 2001;50(4):657-64.

Palmer S, Bader MK, Azhar Q, Palmer J, Shaver T Borzatta M, Stalcup C: The impact of Using the Traumatic Brain Injury Guidelines on Outcomes in a Community Hospital Setting. *JCAHO 2000 Ernest Codman Award Winner*, Presentation JCAHO Conference, October, 2000.

Palmer S, Turner R, Palmer R: METRx-MD Bilateral Decompression of Spinal Stenosis from a Unilateral Approach. *AANS/CNS Joint Spine Section, Poser Presentation*, February, 2001.

Palmer S: Outpatient Minimally Invasive Lumbar Paramedian Microdiscectomy. *Presentation American Association of Neurological Surgeons*, April, 2001.

Palmer S, *Surgical Treatment of Lumbar Spinal Stenosis from a Unilateral Approach*, Submitted to *Spine*, February, 2001.

Palmer S, *Mission Updates in Clinical Medicine presentations: Neurovascular Disorders 3-24-1989, Stereotactic Brain Biopsy 2-24-1990, pdate in Neurosurgery 2-3-1991, Percutaneous Discectomy 1-27-1993, Radiosurgery 10-10-1999, Microendoscopic Discectomy 10-29-1997, 9-10-1999*

Palmer S, *Current Concepts in Minimally Invasive Discectomy*, Instructor and Presenter, *AANS*, April 2000 & April 2001; *Memphis, TN*, October 7, 2000, May 12, 2001.

Palmer, S, *State-of-the-Art Minimally Invasive Spine Surgery*, *Spinal Science Advancement Foundation*, August 1, 2001, *Orlando, FL*.

Palmer, S, *The impact on outcomes in a community hospital setting of using the AANS traumatic brain injury guidelines*, *Donlin M. Long Seminar*, *Baltimore, MD*, July 28, 2001.

Palmer, S, METRx in the Treatment of Spinal Stenosis, Degenerative Lumbosacral Think Tank, Driggs, ID.

Palmer, S, METRx/Tangent/Sextant Lumbar Fusion, Degenerative Lumbosacral Think Tank, Driggs, ID.

Palmer, S, Bader, MK, A FOCUS PDCA model for improving organizational performance in the treatment of TBI, Patient Safety Leadership Conference, Albuquerque, NM, September 14,15, 2001.

Palmer, S, Bader, M, et al. Early Cerebral Oxygen Desaturation in Traumatic Brain Injury with Normal Intracranial Pressure, CNS Oral presentation, San Diego,2001.

Palmer S, Bader MK, Palmer J, Gross J, Shaver T, Stalcup C. 738 Early Cerebral Oxygen Desaturation in Traumatic Brain Injury with Normal Intracranial Pressure. Abstract of Oral Presentations. Neurosurgery. 49(2):517, August 2001.

Palmer, S, Bader, M, et al. Early Cerebral Oxygen Desaturation in Traumatic Brain Injury with Normal Intracranial Pressure, Neurocritical Care 2001, Cleveland, Ohio, 2001.

Palmer, S, Current Surgical Options for Lumbar Discectomy: Comparison of results, CNS Luncheon Seminar, San Diego, 2001.

Palmer, S, Bader, MK, A FOCUS PDCA model for improving organizational performance in the treatment of TBI, Association of Critical Care Nurses of Orange Count/Long Beach, October 18, 2001.

Palmer, S. Palestra: Estenose de Canal/Parafusos Pediculares Percutaneous. VII Workshop de Videoendoscopia de Coluna. Sao Paulo, Brazil, February 1-3, 2002.

Gross, JD, Palmer, S, Minimally Invasive Posterior Lumbar Interbody Fusion: Initial Experience, Oral Presentation, AANS/CNS Section on Disorders of the Spine and Peripheral Nerve, 2002.

Gross, JD, Palmer, S, Minimally Invasive Posterior Lumbar Interbody Fusion: Initial Experience, Poster Presentation, AANS/CNS Section on Disorders of the Spine and Peripheral Nerve, 2002.

Lefkowitz, MA, Palmer, S, Foley, KT, Minimally Invasive Posterior Lumbar Interbody Fusion (PLIF) and Percutaneous Pedicle Screw Insertion: Technique and Preliminary Results, Poster Presentation, AANS/CNS Section on Disorders of the Spine and Peripheral Nerve, 2002.

Khoo, LT, Palmer, S, Laich, D, Fessler, RG, Percutaneous Microendoscopic Posterior Lumbar Interbody Fusion (PLIF): A Cadaveric Validation and Initial Clinical Experience, Poster Presentation, AANS/CNS Section on Disorders of the Spine and Peripheral Nerve, 2002.

Bader, MK, Palmer, S, Stalcup, C, Shaver, T, Using a FOCUS-PDCA Quality Improvement Model for Applying the Severe Traumatic Brain Injury Guidelines to Practice: Process and Outcomes, Clinical Column, Document Number 4C, The Online Journal of Knowledge Synthesis for Nursing,

February 15, 2002.

Bader, MK, Palmer, S, Stalcup, C, Shaver, T, Using a FOCUS-PDCA Quality Improvement Model for Applying the Severe Traumatic Brain Injury Guidelines to Practice: Process and Outcomes, The Evidence-Based Nursing Journal,

Palmer S, Endoscopic discectomy and PLIF, Presentation at Total Spine: Advances in Theory, Techniques, and Technology, The Spinal Science Advancement Foundation, Cancun, Mexico, March 14-17, 2002

Palmer S, Minimally Invasive Spine Surgery. University of California Irvine, Department of Orthopedics, Invited Speaker Grand Rounds Presentation, March 28, 2002.

Lefkowitz, MA, Palmer, S, Foley, KT, Minimally Invasive Posterior Lumbar Interbody Fusion (PLIF) and Percutaneous Pedicle Screw Insertion: Technique and Preliminary Results, Poster Presentation, AANS Annual Meeting, 2002.

Khoo, LT, Palmer, S, Laich, D, Fessler, RG, Percutaneous Microendoscopic Posterior Lumbar Interbody Fusion (PLIF): A Cadaveric Validation and Initial Clinical Experience, Poster Presentation, AANS Annual Meeting, 2002.

Palmer, S, Oxygen Saturation Monitoring in the Treatment of Traumatic Brain Injury, AANS Annual Meeting, Wall Street analyst meeting, 2002.

Palmer, S, AANS Annual Meeting Review Article, Minimally Invasive Microendoscopic Posterior Lumbar Interbody Fusion With Instrumentation, Balloon Kyphoplasty, Laproscopic Anterior Lumbar Interbody Fusion Clinical Management of a Series of 210 Spinal Intramedullary Tumors, Anterior Plating for Cervical Trauma, Minimally Invasive Techniques in Modern Spinal Surgery, Medscape, 2002.

Palmer, S, Bader, MK. Traumatic Brain Injury and Licox Oxygen Saturation Monitoring. University of Southern California, Invited Guest Speaker, Grand Rounds, May 15, 2001.

Palmer, S, Bader, MK. Traumatic Brain Injury and Licox Oxygen Saturation Monitoring. University of California San Diego, Invited Guest Speaker, Grand Rounds, May 30, 2001.

Palmer, S. Neuro Trauma. AORN Multispecialty Conference. Las Vegas, October 11, 2002.

Palmer S. Faculty, Fundamental Principles and Techniques in Spinal Surgery, San Diego, CA, September 5-7, 2002.

Palmer, S. Microscopic Lumbar Discectomy with a Tubular Retractor System—One-Year Prospective Study Results in 135 Patients. NASS abstract submission. 2002.

Palmer, S, Palmer, J, Gross, JD. Minimally Invasive Posterior Lumbar

Interbody Fusion (PLIF) and Percutaneous Pedicle Screw Instrumentation: Technique and First Years Experience in 20 Patients. NASS abstract submission. 2002.

Palmer, S. Implementation of the Traumatic Brain Injury Guidelines. The lessons learned in a five-year experience. CNS oral presentation. Philadelphia. September 23, 2002.

Palmer, S. Microscopic Lumbar Discectomy with a Tubular Retractor System—One-Year Prospective Study Results in 135 Patients. CNS oral presentation, Philadelphia. September, 2002.

Palmer, S, Palmer,J, Gross,JD. Minimally Invasive Lumbar Reexploration Discectomies Using a Tubular Retractor System and Microscope. CNS poster presentation, Philadelphia. September, 2002.

Palmer, S, Palmer, J, Gross, JD. EMG Monitoring of Percutaneous placement of Pedicle Screws: Initial experience in Thirteen Cases. CNS poster presentation, Philadelphia. September, 2002.

Palmer, S, Bader, MK. Cerebral Tissue Oxygen Saturation (PbtO₂)—Experience with the Licox Catheter in 47 Patients. CNS poster presentation, Philadelphia. September, 2002

Palmer, S, Palmer, J, Gross, JD. Minimally Invasive Posterior Lumbar Interbody Fusion (PLIF) and Percutaneous Pedicle Screw Instrumentation: Technique and First Years Experience in 20 Patients. CNS poster presentation, Philadelphia. September, 2002.

Palmer, S, Faculty, Minimal Access Spinal Technologies Training Course, University of San Diego, June 2, 2002.

Palmer, S. Chairman, Minimal Access Spinal Technologies. Training Course, Mission Hospital and Regional Medical Center. June 29, 2002

Palmer, S. Minimally invasive laminotomy for stenosis. Minimally Invasive Techniques for Spinal Surgery. Orthopedics Today. August, 2002

Bader, MK, Palmer, S, Stalcup, C, Shaver, T. Innovations in Clinical Excellence Award. Using a FOCUS-PDCA Quality Improvement Model fro Applying the Severe Traumatic Brain Injury Guidelines to Practice: Process and Outcomes. Reflections on Nursing Leadership, Honor Society of Nursing, Sigma Theta Tau International, Second Quarter, 2002, page 34-35.

Bader, MK, Palmer, S, Stalcup, C, Shaver, T. Using a FOCUS-PDCA Quality Improvement Model fro Applying the Severe Traumatic Brain Injury Guidelines to Practice: Process and Outcomes. The Online Journal of Knowledge Synthesis for Nursing. Second Quarter, 2002.

Palmer, S. Minimally Invasive Techniques in Spinal Surgery. Invited Guest Speaker. South Florida Spine Group. July 19, 2002.

Palmer, S, Bader, MK. Traumatic Brain Injury and Licox Oxygen Saturation Monitoring. Long Beach Memorial Hospital, Invited Guest

Speaker, Grand Rounds, September 2, 2002

Palmer, S, Turner, R, Palmer, R. Bilateral decompressive surgery in lumbar spinal stenosis associated with spondylolisthesis: unilateral approach and use of a tubular retractor system. *Neurosurgical Focus* 13 (1): Article 4, 2002.

Palmer, S. Use of a Tubular Retractor System in Lumbar Discectomy: One Year Prospective Results in 135 Patients. *Neurosurgical Focus* 13 (2): Article 5, 2002.

Palmer S. Sextant Minimally Invasive Pedicle Screws. MAST Course. EuroSpine, Nantes, France, September 11, 2002.

Palmer S. METRx PLIF combined with Sextant. MAST Course. EuroSpine, Nantes, France, September 12, 2002.

Palmer S. METRx Treatment of Spinal Stenosis. MAST Course. EuroSpine, Nantes, France, September 12, 2002.

Palmer, S, Turner, R, Palmer, R. Bilateral decompression of lumbar spinal stenosis involving a unilateral approach with microscope and tubular retractor system. *J Neurosurg (Spine 2)* 97:213-217, 2002.

Palmer S, Bader MK. Restoring Profoundly Brain Injured Patients: Clinical Guidelines Lead to Dramatic Improvements in Outcomes. *Accelerating Changes Today for America's Health*. The national Coalition on Health Care, The Institute for Healthcare Improvement. September 2002, pp 24-27.

Khoo L, Palmer S, Laich K, Fessler R. Minimally Invasive Percutaneous Posterior Lumbar Interbody Fusion. *Neurosurgery (Supplement)* 51:5, 2002, S2 166-181.

Palmer S. Chairman Miami MAST Instructional Course. Miami, Florida. December 7, 2002.

Palmer S., Bader M., Implementation of the Traumatic Brain Injury Protocols—Critical Bedside Decision Making, Abstract submission. AANS, 2003. **Accepted**

Palmer, Davision. Minimally Invasive Surgical Treatment of Lumbar Spinal Stenosis—One Year Prospective Results in Fifty-Four Patients. Abstract submission. AANS, 2003. **Accepted**

Palmer, Davision. Minimally Invasive Surgical Treatment of Lumbar Spinal Stenosis—One Year Prospective Results in Fifty-Four Patients. Abstract submission. Joint Spine Section, 2003. **Accepted**

Palmer S, Palmer J, Gross J. Evoked EMG Monitoring of Percutaneous Placement of Lumbar Pedicle Screws using INS-1. *North American Spine Society*. NuVasive, Inc. White Paper. Montreal, Canada. October, 2002.

Bader M, Palmer S, Stalcup C, Shaver T. Using a FOCUS-PDCA quality improvement model for applying the severe traumatic brain injury guidelines to practice: process and outcomes. *Evidence-Based Nursing*. Vol6, Number

1, January, 2003.

Palmer S. MAST Instructional Course, Western Region. Tucson, AZ. January 11-12, 2003

Palmer S. MAST Instructional Course. West Lake Village. January 15, 2003.

Palmer S. MAST Instructional Course. Long Beach Memorial. January 18, 2003.

Palmer S. MAST Instructional Course. UCSD. January 25, 2003.

Palmer S., Minimally Invasive Spine Surgery, University of California-Irvine, Invited lecturer Neurosurgery Grand Round, February 5, 2003.

Palmer S. Minimally Invasive Spinal Decompression: Cervical and Lumbar. Second Annual Symposium on Current Concepts in Spinal Disorders. La Quinta, CA. February 28-March 2, 2003.

Taylor, J, Palmer, S. Use of a Posterior Shock-Absorbing Implant for the Treatment of Lumbar Degenerative Disease. Abstract submission. NASS, 2003.

Taylor, J, Palmer, S. Use of a Posterior Shock-Absorbing Implant for the Treatment of Lumbar Degenerative Disease. Abstract submission. IMAST, 2003. **Accepted**

Palmer, S, Davison, L. Minimally Invasive Surgical Treatment of Lumbar Spinal Stenosis—Two-Year Results in Fifty-Four Patients. Abstract submission. NASS, 2003.

Palmer, S, Davison, L. Minimally Invasive Surgical Treatment of Lumbar Spinal Stenosis—Two-Year Results in Fifty-Four Patients. Abstract submission. IMAST, 2003. **Accepted**

Palmer, S, Davison, L. Minimally Invasive Surgical Treatment of Lumbar Spinal Stenosis—One-Year Prospective Results in Fifty-Four Patients. Oral Presentation. Joint Spine Section, March 6, 2003.

Palmer, S. Clinical Applications of the METRx System. Spine 2003. The Pacific Spine Institute at Fountain Valley Regional Hospital and Medical Center, Newport Beach, CA, May 1-3, 2003.

Palmer, S. Sextant Pedicle Screw Fixation. Spine 2003. The Pacific Spine Institute at Fountain Valley Regional Hospital and Medical Center. Newport Beach, CA, May 1-3, 2003.

Palmer, S. Modern Guidelines for the treatment of traumatic brain injury including oxygen monitoring. Brain Trauma Meeting—New Trends in Monitoring and Therapy. Gold Coast, Australia, June 6-9, 2003.

Palmer, S. The Effect of Early Oxygen Desaturation with normal ICP. Brain Trauma Meeting—New Trends in Monitoring and Therapy. Gold Coast, Australia, June 6-9, 2003.

Palmer, S. Brain Death and Tissue Oxygen Monitoring. Brain Trauma Meeting—New Trends in Monitoring and Therapy. Gold Coast, Australia,

June 6-9, 2003.

Palmer, S. Modern Guidelines for the treatment of traumatic brain injury including oxygen monitoring. Grand Rounds, Royal Prince Albert Hospital, June 10, 2003.

Palmer, S. Modern Guidelines for the treatment of traumatic brain injury including oxygen monitoring. Brain Trauma Meeting—New Trends in Monitoring and Therapy. Gold Coast, Australia, June 6-9, 2003.

Palmer, S. Modern Guidelines for the treatment of traumatic brain injury in Children. Royal Children's Hospital, Melbourne, Australia, June 11, 2003.

Palmer, S. Modern Guidelines for the treatment of traumatic brain injury including oxygen monitoring. The Alfred Hospital, Melbourne, Australia, June 11, 2003.

Palmer, S. Brain Tissue Oxygenation—Applications in Traumatic Brain Injury. Royal Melbourne Hospital, Melbourne, Australia, June 12, 2003.

Palmer, S. Modern Guidelines for the treatment of traumatic brain injury including oxygen monitoring. Dinner Registrars & Consultants, Melbourne, Australia, June 13, 2003.

Shalayev S, Ki Mun I, Palmer S, Lasner T, Kantrowitz A. Modified Retractor System for Anterior Odontoid Screw Fixation. Abstract, American Association of Neurological Surgeons. September 24, 2003.

Palmer S. Minor Traumatic Brain Injury. Mission Hospital Update on Neurological Principles and Practice. Mission Hospital and Regional Medical Center. October, 2003.

Palmer S. The Anatomic Basis of Spinal Cord Injury. Mission Hospital Update on Neurological Principles and Practice. Mission Hospital and Regional Medical Center. October, 2003.

Palmer, S., Bader, MK. Brain Tissue Oxygenation (PbtO₂) in Brain Death. Oral presentation CNS. October, 2003.

Palmer, S, Palmer, J, Gross, J. Percutaneous Pedicle Screw Placement using a Two Motion Segment/Three Screw Device. Poster presentation CNS October, 2003.

Sandhu F, Santiago P, Palmer S, Fessler R. Treatment of Lumbar Synovial Cysts using Minimally Invasive Techniques. CNS poster presentation. October, 2003.

Sandhu F, Santiago P, Fessler R, Palmer S. Minimally Invasive Treatment of Lumbar Synovial Cysts. Neurosurgery, 2004 Jan, 54(1):107-112.

Shalayev S, Ki Mun I, Palmer S, Lasner T, Kantrowitz A. Modified Retractor System for Anterior Odontoid Screw Fixation. Neurosurgical Focus, January, 2004.

Palmer S, Palmer J, Bader MK. Cerebral Tissue Blood Flow in Severe Traumatic Brain Injury—Initial Experience with the Bowman Monitor in 3

Patients. Poster Presentation AANS. April, 2004.

Palmer S, Goodman G, Bader MK. Cerebral Tissue Oxygen Saturation (PbtO₂) In Pediatrics—Experience with the Licox Catheter in 13 Patients. Poster Presentation, AANS. April, 2004.

Taylor J, Palmer S. A Posterior Dynamic Stabilization Implant (DIAM) for the Treatment of Lumbar Degenerative Disease. Poster Presentation AANS, April 2004.

Taylor J, Palmer S. A Posterior Dynamic Stabilization Implant (DIAM) for the Treatment of Lumbar Degenerative Disease. Podium Presentation, Joint Spine Section, March, 2004.

Taylor J, Palmer S. A Posterior Dynamic Stabilization Implant (DIAM) for the Treatment of Lumbar Degenerative Disease. Electronic Poster, Joint Spine Section, March, 2004.

Shalayev S, Ki Mun I, Palmer S, Lasner T, Kantrowitz A. Modified Retractor System for Anterior Odontoid Screw Fixation. Poster, Joint Spine Section, March, 2004.

Palmer S. Cerebral Tissue Oxygen Monitoring in the Intensive Care Unit. Invited guest lecturer Grand Rounds, Wayne State University Neurological Surgery Department. December 10, 2003.

Palmer S. Minimally Invasive Techniques in Spinal Surgery. Invited guest lecturer Grand Rounds, Wayne State University Neurological Surgery Department. December 10, 2003.

Taylor J, Palmer S. A Posterior Dynamic Stabilization Implant (DIAM) for the Treatment of Lumbar Degenerative Disease. Abstract submission NASS, September, 2004.

Palmer S. Reviewer: AANN Core Curriculum for Neuroscience Nursing. Fourth Edition. Bader MK, Littlejohns LR. Saunders, 2004.

Palmer S, Bader MK. Managing Severe Brain Injury: Integrating Cerebral Oxygen Monitoring. Invited Lecture Department of Neurosurgery, University of Cincinnati Grand Rounds. Cincinnati, Ohio, June 1 & 2, 2004.

Palmer S, Bader MK. Adam Williams Traumatic Brain Injury Initiative, Site Visit and Training. Miami Valley Hospital, Dayton, OH. September 20.21.

Palmer S, Bader MK. Adam Williams Traumatic Brain Injury Initiative, Site Visit and Training. Lehigh Valley Hospital, Allentown, PA. September 22.23.

Taylor J, Pupin P, Delajoux S, Palmer S. Device for Intervertebral Assisted Motion (DIAM): Technique and Initial Results. Paper submission to "Spine". July, 2004.

Goodman G, Palmer S, Bader M, Wallace W. Cerebral Oxygenation in Pediatric Intensive Care. Pediatric Critical Care Colloquium. New York City, NY. September 28, 2004.

Taylor J, Pupin P, Delajoux S, Palmer S. Device for Intervertebral Assisted

Motion (DIAM): Technique and Initial Results. Paper submission to "The Spine Journal". October, 2004.

Taylor J, Palmer S. A Posterior Dynamic Stabilization Implant (DIAM) for the Treatment of Lumbar Degenerative Disease. Poster, Congress of Neurological Surgeons. San Francisco, October, 2004.

Palmer S, Goodman G, Bader MK. Cerebral Tissue Oxygen Saturation (PbtO₂) In Pediatrics—Experience with the Licox Catheter in 13 Patients. Poster Presentation, Congress of Neurological Surgeons. San Francisco, October, 2004.

Palmer S. Mastering Spinal Complexity—Complication Avoidance. Faculty, Practical Course P21, Congress of Neurological Surgeons. San Francisco, October 17, 2004.

Palmer S, Bader M. Building a Better System for Neurotrauma Care: Successful Clinical Improvement Lessons Learned. Brain Trauma Foundation. Philadelphia, October 18, 2004.

Palmer S, Bader MK. Managing Severe Brain Injury: Integrating Cerebral Oxygen Monitoring. Grand Rounds Department of Neurosurgery, University of California, Irvine. Orange, CA, October 27, 2004.

Palmer S, Goodman G, Bader MK. The Quantitative Effect on PbtO₂ of Manipulating MAP, FIO₂, and PCO₂ in Pediatric Patients. AANS Oral Presentation. April, 2005.

Palmer S, Bader MK. Managing Severe Brain Injury: Integrating Cerebral Oxygen Monitoring. Grand Rounds Department of Neurosurgery, The Johns Hopkins Hospital Department of Neurosurgery, November 18, 2004.

Palmer S. Faculty: AANS Minimally Invasive Spinal Techniques. Memphis, TN. 12/3-5/2004

Taylor J, Pupin P, Delajoux S, Palmer S. Device for Intervertebral Assisted Motion (DIAM): Technique and Initial Results. Paper submission to "The Journal of Spinal Disorders and Techniques". Jan, 2005.

Palmer S, Bader MK. Management of Severe TBI with special attention to PbtO₂ monitoring. Christiana Hospital, Delaware. Adam Williams Initiative. February 7-8, 2005

Goodman G, Palmer S, Bader MK. Cerebral Tissue Oxygen Saturation (PbtO₂ in Pediatrics—Experience with the Licox Catheter I 13 Patients: Pediatric Critical Care Medicine. 6(1):105, January 2005.

Palmer S, Goodman G, Bader MK. Cerebral Tissue Oxygen Tension in Pediatrics: Experience with the Licox Catheter in 13 patients. AANS Oral Presentation. New Orleans, 2005.

Palmer S. Minimally Invasive Techniques in Spinal Surgery. Instructor. AANS. New Orleans, 2005.

Palmer S. Minimally Invasive Lumbar Laminectomy. Controversies in the treatment of Spinal Stenosis. AANS. New Orleans, 2005.

Palmer S, Bader MK. Cerebral Oxygen Desaturation with Normal ICP in Severe TBI. The Journal of Neurosurgery. Submission, 2005.

Palmer S. Managing Severe Traumatic Brain Injury: Integrating Brain Tissue Oxygen Monitoring. Integra South African Neurosurgical Symposium. New Orleans, 2005.

Palmer S. Managing Severe Traumatic Brain Injury: Integrating Brain Tissue Oxygen Monitoring. Annual Penrose Trauma Symposium. Colorado Springs, CO. May 20, 2005.

Palmer S. Adam Williams Traumatic Brain Injury Initiative. Training program lecturer/instructor. Kalamazo, MI. June 6-7, 2005.

Bader MK, Arbour R, Palmer S. Refractory Increased Intracranial Pressure in Severe Traumatic Brain Injury: Barbituate Coma and Bispectral Index Monitoring. AACN Clinical Issues: Advanced Practice in Acute and Critical Care. Neurological Nursing. 16(4):.526-541, October/Decemter 2005.

Palmer S, Bader MK. Cerebral Oxygen Desaturation with Normal ICP in Severe TBI. The Journal of NeuroCritical Care. Submission, 2006.

Palmer S. Minimally Invasive Techniques in Spinal Surgery. Instructor. AANS. San Francisco, 2006.

Palmer S. Minimally Invasive Lumbar Laminectomy. Controversies in the treatment of Spinal Stenosis. AANS. San Francisco, 2006.

Palmer S. Neurophysiologic Monitoring of Pedicle Screw Placement. Chapter in "An Anatomic Approach to Minimally Invasive Surgery, Perez-Cruet, M., Editor. 2006.

Bader MK, Barnhill B, Clark M, Leighty G, Palmer S, Shollengerger J, Whitaker M. Surviving the aftershocks of Brain Injury: From ICU to Home. NTI. May, 2006.

Bader MK, Palmer S. What's the Hyper in Hyperacute Stroke? AACN Advanced Critical Care. Volumn 17, Number 2, pp. 194-214, 2006.

Palmer S, Mahar A. Biomechanical and Radiographic Analysis of a Novel, Minimally Invasive, Extension-Limiting Device for the Lumbar Spine. Submission: Neurosurgical Focus, Posterior Dynamic Stabilization, January, 2007

Taylor J, Pupin P, Delajoux S, Palmer S. Device for Intervertebral Assisted Motion (DIAM): Technique and Initial Results. Submission : Neurosurgical Focus, Posterior Dynamic Stabilization, January, 2007.

Palmer S, Mahar A. Biomechanical and Radiographic Analysis of a Novel, Minimally Invasive, Extension-Limiting Device for the Lumbar Spine. Presentation: Joint Spine Section AANS/CNS, March, 2007.

Palmer S, Bader MK. Neurosurgical Critical Care with Cerebral Oxygen Monitoring. St. Alfonso Hospital. Boise, ID. October, 2006.

Taylor J, Pupin P, Delajoux S, Palmer S. Device for Intervertebral Assisted

Motion (DIAM): Technique and Initial Result. *Neurosurgical Focus* 22 (1):E6, 2007.

Palmer S, Mahar A. Biomechanical and Radiographic Analysis of a Novel, Minimally Invasive, Extension-Limiting Device for the Lumbar Spine. *Neurosurgical Focus* 22 (1):E6, 2007.

Palmer S, Bader MK. Conventional neurocritical care and cerebral oxygenation after traumatic brain injury. Letter to the editor. *J Neurosurg* 105: 568-575, 2006.

Bader MK, Palmer S. Factor VIIa Rapid Reversal Protocol of Warfarin in Patients with Intracranial Hemorrhages. 2007 Neurocritical Care Society. Las Vegas, NV. Nov 2-3, 2007.

Dipp J, Flores R, Palmer S. Feasibility study of a novel facet based percutaneous dynamic stabilization (PDS) device. IMAST, Bermuda, 2007.

Palmer S, Bader MK. Cerebral Oxygenation. Letter to the editor. *J Neurosurgery* 108. Jan 2008.

Palmer S, Bader MK. Cerebral Oxygen Desaturation with Normal ICP and CPP in Severe TBI. *The Open Critical Care Medicine Journal*, 2008, 1, 28-32.

Bader MK, Palmer S. Implementation of the Brain Trauma foundation (BTF) Traumatic Brain Injury (TBI) Guidelines and Brain Oxygen Monitoring—The Lessons Learned in a Ten-Year Experience. Neurocritical Care Society Annual Meeting, Miami Beach, FL. Oct 23-25, 2008.

Palmer, S. Electrophysiologic Monitoring of Pedicle Screw Placement. Chapter in *Minimally Invasive Spine Fusion. Techniques and Operative Nuances*. Perez-Cruet M, Beisee R, Pimenta L, Kim D. Quality Medical Publishing Inc., Saint Louis, Missouri, 2011.

Palmer, S. Transfacet Screw Instrumentation. Chapter in *Minimally Invasive Spine Fusion. Techniques and Operative Nuances*. Perez-Cruet, M; Beisee, R; Pimenta, L; Kim, D. Quality Medical Publishing Inc., Saint Louis, Missouri, 2011.

Palmer S, Davison L. Minimally Invasive Surgical Treatment of Lumbar Spinal Stenosis—Two Year Follow Up in 54 Patients. *Surgical Neurology International*. Jan-Feb. Vol 3. Issue 1. 2012.

Palmer S. Bilateral decompression in lumbar spinal stenosis through a microscope-assisted mono-lateral approach. *Minimally Invasive Spine Surgery—Techniques, Evidence, and Controversies*. Editors: Roger Härtl and Andreas Korge. 2012.

Bader MK, Stutzman SE, Palmer S, Nwagwu C, Goodman G, Whittaker M, Olson D. The Adam Williams Initiative: Collaborating with Community Resources to Improve Care for Traumatic Brain Injury. *Crit Care Nurse* 2014, 34:39-47. Doi: 10.4037/ccn2014112.

Palmer, S. MIS Pars Repair—The Why and the How. *Minimally Invasive Neurosurgical Society: 6th Annual Conference*. Breckenridge, CO. July 15-

17, 2015.

Palmer, D. Symptomatic Seroma Formation in MIS for Lumbar Stenosis. Minimally Invasive Neurosurgical Society. 9th Annual Conference. Mackinaw Island, MI. August 9-11, 2018.