

Curriculum Vitae
for
Volker K.H. Sonntag, M.D.

Revised
August 24, 2014

BIOGRAPHY

Born: November 23, 1944: Germany
 United States Citizen: 1965

Spouse: Lynne A. Sonntag, Pediatric Nurse Practitioner

Children: Alissa 1978
 Christopher 1981
 Stephen 1990

Mailing Address: Barrow Neurosurgical Associates, Ltd.
 Barrow Neurological Institute
 St. Joseph’s Hospital and Medical Center
 2910 North Third Avenue
 Phoenix, Arizona 85013

Other Interests

Coaching: Soccer, Baseball, Basketball
Philately (esp. Medical and Neurosurgery)

Education

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|--|------|------------------------------------|
| Central High School Phoenix, Arizona | 1963 | Graduated with honors – top 10% |
| Arizona State University Tempe, Arizona | 1967 | B.A. Chemistry Summa Cum Laude |
| University of Arizona School of Medicine Tucson, Arizona | 1971 | President Class of 1971 |

Postgraduate Training

| | | |
|---|-----------|------------------------------------|
| Arizona Medical Center University of Arizona | 1971-1972 | Internship |
| Tufts New England Medical Center Hospital Boston, Massachusetts | 1972-1975 | Neurosurgical Resident |
| Tufts New England Medical Center Hospital Boston, Massachusetts | 1975-1977 | Chief Neurosurgical Resident |

Private Practice

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| St. Elizabeth Hospital And Medical Center Youngstown, Ohio | 1977-1978 | |
| Neurological Surgery Phoenix and Scottsdale, Arizona | 1978-1983 | |
| Barrow Neurosurgical Associates, Ltd. Barrow Neurological Institute Phoenix, Arizona | 1983-present | |

Academic Appointments

| | | |
|---|--------------|--|
| Barrow Neurological Institute Phoenix, Arizona | 1984-present | Vice-Chairman Department of Neurosurgery |
| Barrow Neurological Institute Phoenix, Arizona | 1984-2009 | Chairman Spine Section |
| Barrow Neurological Institute Phoenix, Arizona | 1995-2009 | Director Residency Program |
| University of Arizona Tucson Arizona | 1985-1988 | Clinical Associate Professor of Surgery |
| University of Arizona Tucson, Arizona | 1989-1995 | Clinical Professor of Surgery |
| University of Arizona Tucson, Arizona | 1995-present | Professor of Clinical Surgery |

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| Creighton University Omaha, Nebraska | 2009-present | Clinical Professor of Surgery |
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Honors and Awards

| | | |
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| Outstanding Student (class of 1963) Central High School | | 1963 |
| Summa Cum Laude – Chemistry Arizona State University | | 1967 |
| Graduating Class President University of Arizona School of Medicine | | 1971 |
| Honorary Alumnus Membership – Alpha Omega Alpha for Outstanding Recognition & Accomplishment Class of 1971 – Awarded Ten Years Post Graduation | | 1981 |
| Blazing Craniotome Award for Excellence Surgical Resident Teaching | | 1984 |
| Teacher of the Year – Nursing Staff Barrow Neurological Institute St. Joseph’s Hospital and Medical Center Phoenix, Arizona | | 1984 |
| The Wakeman Award – Duke University Medical Center The National Acute Spinal Cord Injury Study II Durham, North Carolina | | 1990 |
| College of Medicine Alumni Medal Outstanding Graduate Twenty Years University of Arizona School of Medicine Tucson, Arizona | | 1987 |
| Attending Physician Teacher of the Year Barrow Neurological Institute | | 1979 1986 |
| St. Joseph’s Hospital and Medical Center Phoenix, Arizona | | 1989 1990 1992 1996 1998 |
| Honorary Member of the German Society of Neurological Surgeons | | 1998 |
| Meritorious Service Award from AANS and CNS, Spine Section 15 th Annual Meeting Lake Buena Vista, Florida | | 1999 |

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| Honorary Member of the Columbian Association of Neurological Surgeons | 1999 |
| Mentor of the Millennium BNI Neurosurgery Residents | 2000 |
| Honored Guest Lifetime Leadership and Mentoring to Young Neurosurgeons AANS Young Neurosurgeons Committee | 2000 |
| The Volker Sonntag Award Fellowship award for research established by AANS/CNS | 2000 |
| Board of Governors of the American College of Surgeons as a Specialty Society Governor from the AANS | 2000 |
| Barrow Neurological Endowed Alumni Spine Chair | 2000 |
| Voted "Top Doctor" in Phoenix Magazine | 1996-2004 2008-2009 |
| Honored Guest, Congress of Neurological Surgeons | 2002 |
| The Business Journal Health Care Hero Award | 2003 |
| Honorary Member of the Mexican Congress of Neurological Surgery | 2003 |
| Honorary Member of the Brazilian Congress of Neurological Surgery | 2003 |
| The ASU Alumni Achievement Award | 2004 |
| Parker J. Palmer "Courage to Teach" Award | 2005 |
| ISSLS Prize for Lumbar Spine Research | 2005 |
| Board Member NASS Spine Masters Institute | 2006 |
| Honored Guest for Joint Spine Section's Young Neurosurgeons Dinner | 2007 |
| Arizona State University Distinguished Alumni | 2007 |
| St. Joseph Hospital & Medical Center Master Teacher | 2011 |
| University of Arizona Alumnus of the Year | 2011 |
| 2012 Neurosurgeon of the Year – Texas Association of Neurological Surgeons | 2012 |
| Distinguished Service Award 2013 – Society of Neurological Surgeons | 2013 |

United State Patents

| | | |
|-------------------------------|---|------------------------|
| Patent No. US 6,261,582 BI | Morphine Paste | Issued: July 17, 2001 |
| Patent No. US 6,152,927 | Anterior Cervical Plating System (Atlantis Plate) | Issued Nov. 28, 2000 |
| Patent No. US 6,669,700 BI | Anterior Cervical Plating System (Atlantis Vision Plate) | Issued Dec. 30, 2003 |
| Patent No. US 2005/0283152 A1 | Anterior Cervical Plating System (Venture Plate) | Issued Dec. 22, 2005 |
| Patent No. US 7,001,387 | Anterior Cervical Plating System (Atlantis Vision Plate) | Issued Feb. 21, 2006 |
| Patent No. US 7,727,266 | Method and Apparatus for Retaining Screws in a Plate | Issued June 1, 2010 |
| Patent No. US 8,277,493 | Anterior Cervical Plating System (Atlantis Plate) | Issued October 2, 2012 |

Visiting Professor

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| Department of Medicine University of Nevada Reno, Nevada | 1986 |
| Department of Neurosurgery Tufts New England Medical Center | 1987 |
| Southern Neurosurgical Society Amelia Island, South Carolina | 1987 |
| Texas Medical Association Austin, Texas | 1987 |
| Department of Neurosurgery Columbia Presbyterian Neurological Institute New York, New York | 1987 |
| Florida Neurosurgical Society Orlando, Florida | 1988 |
| University of Alabama Birmingham, Alabama | 1989 |
| Emory University School of Medicine Atlanta, Georgia | 1989 |
| University of Tokyo Tokyo, Japan | 1989 |
| University of Michigan Section of Neurosurgery Ann Arbor, Michigan | 1990 |
| Syracuse University Department of Neurosurgery Syracuse, New York | 1990 |
| University of Texas Southwest Medical Center Dallas, Texas | 1990 |
| National Naval Medical Center Uniformed Services University of the Health Sciences Bethesda, Maryland | 1991 |

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| Chicago Institute of Neurosurgery Chicago Neurosurgical Center Chicago, Illinois | 1991 |
| Department of Orthopedics New Jersey Medical College Newark, New Jersey | 1992 |
| Department of Orthopedics Henry Ford Hospital Detroit, Michigan | 1992 |
| State University of New York Department of Neurosurgery – Millard Fillmore Hospital Buffalo, New York | 1992 |
| Johns Hopkins University Orthopedic and Spinal Surgery Baltimore, Maryland | 1993 |
| Ohio State Neurosurgical Society Cincinnati, Ohio | 1993 |
| University of Arkansas Little Rock, Arkansas | 1994 |
| George Washington University Washington, D.C. | 1994 |
| Harry Wilkins Visiting Professor of Neurosurgery University of Oklahoma Oklahoma City, Oklahoma | 1994 |
| Yale University New Haven, Connecticut | 1994 |
| The 1995 Keith Professorship in Neurosurgery Toronto Hospital, University of Toronto Toronto, Canada | 1995 |
| Fulcher Visiting Professor Georgetown University Medical Center Washington, D.C. | 1995 |
| Arthur A. Ward Visiting Professor and Lecturer University of Washington Seattle, Washington | 1995 |

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|---|--------------|
| University of Miami Miami, Florida | 1996 |
| University of Pittsburgh Pittsburgh, Pennsylvania | 1997 |
| Stanford University Stanford, California | 1998 |
| Charles A. Fager Lecture Lahey Hitchcock Clinic Burlington, Massachusetts | 1998 |
| Foothills Hospital University of Calgary Alberta, Canada | |
| Visiting Professor Northwestern University Division of Neurological Surgery Chicago, Illinois | 1998 1998 |
| Visiting Professor University of California San Francisco School of Medicine Department of Neurological Surgery San Francisco, California | 1998 |
| Louisiana State University School of Medicine New Orleans, Louisiana | 1998 |
| New York University Medical Center New York, New York | 1999 |
| Henderson Lecture University of Maryland School of Medicine Baltimore, Maryland | 1999 |
| University of California Irvine Irvine, California | 1999 |
| University of California Los Angeles Los Angeles, California | 1999 |
| University of Wisconsin Madison, Wisconsin | 2000 |

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| Society of Neurologic Surgeons Los Angeles, California | 2000 |
| John Hopkins University Baltimore, Maryland | 2000 |
| Oregon Health Department of Neurological Surgery Portland, Oregon | 2001 |
| Emory University School of Medicine Atlanta, Georgia | 2001 |
| University of Arkansas for Medical Sciences Department of Neurosurgery Little Rock, Arkansas | 2001 |
| University of Virginia Department of Neurosurgery Charlottesville, Virginia | 2001 |
| The Campbell Lecture Indiana University Medical Center Indianapolis, Indiana | 2002 |
| Brigham's Women's Hospital Boston, Massachusetts | 2002 |
| University Medical School Division of Neurosurgery St. Louis, Missouri | 2002 |
| Cornell University New York, New York | 2002 |
| University of Cincinnati Medical Center Cincinnati, Ohio | 2002 |
| Washington University School of Medicine St. Louis, Missouri | 2002 |
| Albany Medical Center Albany, New York | 2003 |
| Mount Sinai Medical Center New York, New York | 2003 |
| Charles Drake Distinguished Visiting Professor London, Ontario | 2003 |

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| University of Illinois College of Medicine Peoria, Illinois | 2003 |
| Gardner Lecture, Cleveland Clinic Cleveland, Ohio | 2004 |
| Stanford University Medical Center Stanford, CA | 2004 |
| Loyola University Chicago Maywood, IL | 2004 |
| Police General Hospital Bangkok, Thailand | 2004 |
| Ohio State University Columbus, Ohio | 2005 |
| Mayo Clinic Rochester, Minnesota | 2005 |
| St. Vincent's Hospital and Medical Center New York, New York | 2005 |
| University of Calgary Calgary, Canada | 2005 |
| University of Texas San Antonio, TX | 2005 |
| University of Louisville Louisville, KY | 2006 |
| University of Pittsburg School of Medicine Pittsburgh, PA | 2007 |
| Oregon Health & Science University (John Raaf Day Lecturer) Portland, OR | 2007 |
| Baystate Medical Center Boston, MA | 2008 |
| University of Florida Gainesville, FL | 2008 |
| University of Illinois Chicago, Illinois | 2008 |
| Ada Canyon Medical Education Consortium Boise, Idaho | 2008 |

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| University of Missouri-Columbia Columbia, MO | 2009 |
| University of Pennsylvania Philadelphia, PA | 2010 |
| University of Arizona Tucson, AZ | 2010 |
| University of Cincinnati Cincinnati, OH | 2010 |
| Loma Linda University Loma Linda, CA | 2011 |
| Stanford University Medical Center Stanford, CA | 2011 |
| Swedish Neuroscience Institute Seattle, WA | 2011 |
| Harvard University Medical Center Boston, MA | 2011 |
| University of Texas at Houston Houston, TX | 2011 |
| University of Minnesota Minneapolis, MN | 2011 |
| Charite Universitätsmedizin Berlin Berlin, Germany | 2011 |
| Innsbruck Medical University Innsbruck, Austria | 2012 |
| University of Southern California Los Angeles, CA | 2012 |
| Oschner Clinic New Orleans, LA | 2012 |
| University of Vermont Burlington, VT | 2012 |
| Yale University New Haven, CT | 2012 |
| Tufts Medical Center Boston, MA | 2012 |

University of Geneva 2012
Switzerland

University of California Irvine 2013
Irvine, California

Thomas Jefferson University 2013
Philadelphia, PA

Licensure and Certifications

Ohio, Arizona and Massachusetts License with reciprocity in other states.

American Board of Neurological Surgery passed written Neurosurgical Boards March 1975, Orals passed 1980.

Advanced Trauma Life Support Course passed August 1984.

Professional References

1. Bennett M. Stein, M.D.
Department of Neurosurgery, College of Physicians and Surgeons
Columbia University
710 West 168th Street
New York, New York 10032
(212)305-5543
2. Robert F. Spetzler, M.D. – Director
Barrow Neurological Institute
St. Joseph's Hospital and Medical Center
350 West Thomas Road
Phoenix, Arizona 85013
(602)406-3489

Local Appointments**Phoenix Memorial Hospital**

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|--------------------------------------|-----------|
| Director, Department of Neurosurgery | 1979-1980 |
| ICU-CCU Committee | 1979-1986 |
| Surgical Committee | 1979-1986 |

St. Joseph's Hospital and Medical Center

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| Infectious Disease Committee | 1980-1984 |
| CME/Outreach Education Sub Committee | 1985-1987 |
| CME Committee | 1995-2010 |
| Credentialing Committee | 1999-2010 |

Barrow Neurological Institute

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|---|----------------|
| Chairman, Spinal Cord Injury Committee | 1979-1999 |
| Operating Room Committee | 1979-2010 |
| Nurse Neurological Assistant Committee | 1981-1982 |
| Publicity Committee | 1982-1983 |
| Vice Chairman, Division Of Neurosurgery | 1985-present |
| Director, "Feet First, First Time" | 1985-1997 |
| BNI Executive Committee | 1987-2008 |
| Director, Neurosurgical Residency Program | 1995-2010 |
| Professor, Division of Neurological Surgery | 2012 - present |

Humana Hospital

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| Surgical Committee | 1982-1987 |
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Professional Memberships**Congress of Neurological Surgeons**

| | |
|----------------------------|--------------|
| Sergeant at Arms | 1980 |
| Chairman, Host Committee | |
| International Committee | 1981, 1984 |
| Executive Committee | 1986-1993 |
| Publicity Committee | 1984 |
| Public Relations Committee | 1985 |
| Special Courses Committee | 1985, 1986 |
| How I do it Committee | 1986 |
| General Scientific Session | 1987 |
| III Committee | |
| International Committee | 1987-present |
| Host Chairman | 1988 |
| Nominating Committee | 1995-1997 |

American Association of Neurological Surgeons

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|---|------------|
| Sergeant at Arms | 1982, 1984 |
| Nominating Committee | 1995-1996 |
| American Academy of Orthopedic Surgeons | 1993-1996 |
| Liaison Committee | |
| North American Spine Society-Liaison | 1996-2010 |
| Professional Development Program | 1992-1996 |
| Vice Chairman | 1994-1996 |
| American College of Surgeons | 1994-1997 |
| Advisory Council for Neurosurgery | |
| Spine Task Force Committee | 1988-1995 |
| Board of Directors | 1998-2000 |
| Vice President | 2001-2002 |
| Professional Conduct Committee | 2008-2011 |

Think First

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| Chairman, Think First of Local Chapter | 1986-1996 |
| Chairman, National Life Endowment Program | 1990-1992 |
| National Advisory Committee | 1990-1994 |
| Board of Directors | 1994-1996 |

Joint Section of Spinal Disorders

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|-------------------------|-----------|
| Scientific Chairman | 1986 |
| Executive Committee | 1986-1995 |
| Host Chairman | 1988 |
| Treasurer | 1989-1991 |
| Chairman Elect | 1991-1992 |
| Chairman | 1992-1993 |
| Immediate-Past Chairman | 1993-1994 |

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| Rocky Mountain Neurosurgical Society | 1989-present |
| Member at Large | 1989-1992 |
| Vice President | 1992-1993 |
| President-Elect | 1993-1994 |
| President | 1994-1995 |
| Scientific Program Chairman | 1991-1992 |
| | 1993-1994 |
| | 1996-1997 |
| Neurosurgical Society of America | 1992-present |
| Society of Neurological Surgeons | 1992-present |
| Membership Committee | 1991-1994 |
| Chairman of Membership Committee | 1993-1994 |
| Ad Hoc Committee on the Spine | 1993-1994 |
| Council for Accreditation of Subspecialty Training (CAST) | 2010-2013 |
| North American Spine Society | |
| Board of Directors, Member at Large | 1993-1995 |
| Secretary | 1995-1999 |
| President | 2000-2001 |
| Board of Directors, Spine Master's Institute | 2005-present |
| American Academy of Neurological Surgery | 1995-present |
| President | 2003-2004 |
| Chairman – Membership Committee | 2005 |
| German Academy of Neurological Surgeons | |
| Correspondence Member | 1998 |
| Columbian Associates of Neurological Surgeons | |
| Honorary Member | 1999 |
| Brazilian Congress of Neurological Surgery | |
| Honorary Member | 1999 |
| Mexican Congress of Neurological Surgery | |
| Honorary Member | 2003 |

American Board of Neurological Surgeons

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|---------------------------------------|-----------|
| Director | 1998-2004 |
| Committee on Educational Requirements | 1998-2004 |
| Credentials Committee | 1998-2004 |
| Oral Examination Committee | 1998-2004 |
| Primary Examination Committee | 1998-2004 |
| Chairman – Recertification Committee | 2000-2004 |

Accreditation Council for Graduate Medical Education

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|------------------------------------|-----------|
| Member, Residency Review Committee | 2004-2012 |
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Others

- Alpha Omega Alpha Society
- American College of Surgeons
- American Medical Association
- Arizona Society for Neurosurgeons
- Arizona State Medical Association
- American Spinal Injury Association
- Cervical Research Society
- Joint Section of Trauma
- Joint Section of Tumors
- Maricopa County Medical Society
- Sociedade Brasileira de Neurocirurgia, Correspondent Member
- Society for Neurosciences
- Society of Nervous System Surgery

Editorial Boards

| | |
|---|--------------|
| Arizona Medical Association | 1982-1986 |
| BNI Quarterly | 1985-present |
| Journal of Spinal Disorders | 1988-1993 |
| Spine - Deputy Editor | 1993-1999 |
| - Editorial Board | 1999-present |
| Neurosurgery –Principal Spine Editor | 1993-2010 |
| -Peer-Review Advisory Panel | 2004-present |
| Editorial Board | |
| Critical Review in Neurosurgery | 1993-2000 |
| Acta Neurochirurgica | 1994-present |
| Neuro-Orthopedics | 1995-2002 |
| Operative Techniques in Neurosurgery | 1997-2005 |
| Japanese Spinal Surgery- International Advisory Board | 1998-present |
| Contemporary Spine Surgery | 2001-present |
| The Spine Journal | 2001-present |
| Journal of Neurosurgery | 1998-2006 |
| Journal of Neurosurgery – Chairman | 2004-2005 |
| Journal of Neurosurgery Spine -Chairman | 2005-2006 |
| Neurosurgical Focus | 2007-present |
| Journal of Craniovertebral Junction & Spine | 2009-present |
| World Neurosurgery | 2010-present |
| New England Journal of Medicine (ad hoc) | 2011-present |

Funded Research

Ames C, Crawford N, Sonntag VKH: *Biomechanics of StarLock Instrumentation*. Synthes Spine, 2002. Amount: \$28,250.

Ames C, Crawford N, Sonntag VKH: *Biomechanics of Vertex Instrumentation*. Medtronic Sofamor Danek, 2002. Amount: \$36,048.

Ames C, Crawford N, Sonntag VKH: *Biomechanical Analysis of a Resorbable Anterior Cervical Graft Containment Plate*. Medtronic Sofamor Danek, 2002. Amount: \$29,600.

Garza LP, Bozkus H, Crawford N, Sonntag VKH: *Fellowship in Spinal Biomechanics* funded by DePuy AcroMed. 2001-2002. Amount \$40,000.

Bartolomei J, Crawford N, Sonntag VKH: *Intraoperative Measurement of Screw Insertion Torque and Thrust*. Medtronic Sofamor Danek, 2001. Amount: \$2,600.

Crawford N, Sonntag VKH: *Feasibility of Odontoid Screw Repair in Oblique Type 2 Fracture*. Barrow Women's Board, 2001. Amount: \$15,000.

Crawford N, Sonntag VKH, Duggal N: *Odontoid Fracture Research*. Barrow Neurological Women's Board, 2001. Amount: \$10,000.

Duggal N, Crawford N, Sonntag VKH: *Lumbar Transfacet versus Translaminar Facet Screws in Sheep Spines*. Medtronic Sofamor Danek, 2001. Amount: \$412,620.

Vishteh AG, Crawford N, Sonntag VKH: *Lumbar Posterior vs. Anterior Threaded Interbody Cages*. Medtronic Sofamor Danek, 2001. Amount: \$23,200.

Adams M, Potocnjak M, Crawford N, Sonntag VKH: *Thoracic Extrapedicular Screw Pullout*. Stryker Spine, 2000. Amount: \$2,410.

Das K, Bartolomei J, Crawford N, Sonntag VKH: *Cervical Pedicle Screws/Plates versus Lateral Mass Screws/Plates*. Medtronic Sofamor Danek, 2000. Amount: \$14,448.

Duggal N, Crawford N, Sonntag VKH: *Fixation of Hangman's Fractures*. DePuy AcroMed, 2000. Amount: \$22,240.

Gonzalez LF, Crawford N, Sonntag VKH: *C1-Occipital Condyle Screw Fixation*. Medtronic Sofamor Danek, 2000. Amount: \$14,510.

Adams M, Crawford N, Sonntag VKH: *Biomechanical Comparison of Anterior and Combined Anterior and Posterior Cervical Plating*. Medtronic Sofamor Danek, 1999. Amount: \$9,840.

Crawford N, Theodore N, Sonntag VKH, Dickman CA: *Laminoplasty, Laminectomy, and Discectomy: Stenosis and Stability*. North American Spine Society, 1999. Amount: \$22,432.

Duggal N, Crawford N, Sonntag VKH: *Unilateral Cervical Facet Lock*. Spinal Concepts, 1999. Amount: \$9,420

Theodore N, Sonntag VKH: *Biomechanical Effects of Laminoplasty, Laminectomy, and Discectomy: Stenosis and Stability*. North American Spine Society, 1999. Amount: \$24,432.

Theodore N, Sonntag VKH: *Evaluation of 2-Octylcyanoacrylate in Spinal Surgery*. Ethicon Corporation, 1999. Amount: \$24,000.

Crawford N, Sonntag VKH: *Effects of Rib Cage and Sternum on Thoracic Spine Stability and Kinematics*. Barrow Women's Board, 1998. Amount: \$35,000.

Sonntag VKH, Theodore N, Javedan S: *Peripheral Nerve Grafting for Complete Spinal Cord Injury in the Primate*. North American Spine Society, 1998. Amount: \$48,622.

Sonntag VKH, Theodore N, Guest J: *MRI Follow-Up of Patients Undergoing Lumbar Surgery with Epidural Application of a Morphine-Based Analgesic Paste*. Davol Corporation, 1998. Amount: \$20,000.

Sonntag VKH, Theodore N, Guest J: *Effects of Epidural and Intradural Application of a Morphine-Based Analgesic Paste in the Rabbit Model*. Davol Corporation, 1997. Amount: \$15,000.

Sonntag VKH, Theodore N, Guest J: *A Randomized, Double-Blind Controlled Trial Evaluating the Efficacy of a Morphine-Based Analgesic Paste Following Lumbar Decompressive Surgery*. Medchem Corporation, 1996-1997. Amount: \$15,000.

Sonntag VKH: *National Acute Spinal Cord Injury Study*. National Institutes of Health, Total Cost of Study at all Ten Centers, 1985-1990. Amount: \$1,758,406.

Sonntag VKH, Levy DI: *Fat Embolism In the Canine Model*. Barrow Neurological Women's Board, 1990. Amount: \$10,000.

Winter J, Sonntag VKH: *An In-Depth Biomechanical Analysis and Clinical Assessment of Halo Orthotic Device for Various Types of Injury*. Centers of Disease Control, 1989. Amount: \$50,000.

Sonntag VKH: *Production of a New Model of Spinal Cord Injury*. Barrow Neurological Women's Board, 1987. Amount: \$15,000.

Sonntag VKH, Hadley MN, Carter LP: *Identification of the Mechanisms of Traumatic Spinal Cord Injury*. Arizona Disease Control Commission, Grant #A.R.S. 36-104, #A.R.S. 36-271, July 1987-June 1988. Amount: \$13,000.

Young W, Wilberger J, Sonntag VKH: *Safety and Tolerance of Intravenous Doses of Tirilazad (U74006F) in Spinal Injured Patients (Phase II)*. Upjohn, November, 1998. Amount: \$20,000.

Theodore NT, Sonntag VKH: *A Multicenter Prospective Study of Neurological Recovery as a Factor of Time to Decompression of Cervical Spinal Cord Injuries with Spinal Cord Decompression*. Spine Trauma Study Group and Medtronic Sofamor Danek. May 2006.

BOOKS

Bambakidis NC, Dickman CA, Spetzler RF, Sonntag VKH (eds): ***Surgery of the Craniovertebral Junction, Second Edition***. New York: Thieme, 2012.

Sonntag VKH: Spine. In Winn HR (Editor-in-Chief), Sonntag VKH (section ed): ***Youman's Neurological Surgery***, 6th ed. Philadelphia, Elsevier Saunders, 2011

Sonntag VKH, Vollmer F: Spine. In Winn HR (Editor-in-Chief), Sonntag VKH (section ed): ***Youman's Neurological Surgery***, 5th ed, Philadelphia, W. B. Saunders, in press.

Dickman CA, Spetzler RF, Sonntag VKH (eds): ***Surgery of the Craniovertebral Junction***. New York: Thieme, 1998.

Menezes AH, Sonntag VKH (eds), Benzel EC, McCormick P, Papadopoulos SM (section eds): ***Principles of Spinal Surgery***. New York: McGraw-Hill, 1996.

Weinstein JN, Rydevik BL, Sonntag VKH (eds): ***Essentials of the Spine***. New York: Raven Press, 1995.

Saloman M, Heros R, Laws E, Sonntag VKH (eds.) ***Operative Neurosurgery Volumes I & II, Second Edition***. New York: Springer-Verlag, 2004.

BOOK CHAPTERS

Total Book Chapters (98)

Published 2014 (1)

Chang SW, Garrett MP, Kakarla UK, Sonntag VKH: Multilevel Anterior Cervical discectomy and Fusion Versus Corpectomy. ***Cervical Spine Suregery: Current Trends and Challenges. Quality Medical Publishing, Inc. USA.***

Published 2012 (3)

Link TE, Jandial R, Sonntag VKH: Laminectomy Across the Cervicothoracic Junction: Fusion Versus Nonfusion. ***Best Evidence for Spine Surgery: 20 Cardinal Cases. Elsevier Saunders, USA.***

Gantwerker BR, Sonntag VKH, Spetzler RF: Decompression and Arthrodesis of the Cervical Spine: Upper Cervical and Craniocervical Decompression. ***Spine Surgery: Techniques, Complication Avoidance and Management. Third Edition, Volume I. Elsevier Saunders, USA.***

Kalani, MY, Kakarla UK, Sonntag VKH, Theodore N: Decompression and Arthrodesis of the Cervical Spine: Upper Cervical and Occipitocervical Arthrodesis. ***Spine Surgery: Techniques, Complication Avoidance and Management. Third Edition, Volume I. Elsevier Saunders, USA.***

Published 2011 (6)

Sonntag VKHS, Vollmer DG, Shaffrey CL: Overview and Historical Considerations. *Youman's Neurological Surgery, Sixth Edition, Volume 3. Elsevier Saunders, USA.*

Garrett M, Bartolomei J, Sonntag VKH: Anterior Approach for Cervical Spondylotic Myelopathy. ***Youman's Neurological Surgery, Sixth Edition, Volume 3. Elsevier Saunders, USA.***

Chang S, Crawford NR, Sonntag VKH, Dickman C: Basic Principles of Spinal Internal Fixation. ***Youman's Neurological Surgery, Sixth Edition, Volume 3. Elsevier Saunders, USA.***

Kakarla UK, Dickman CA, Sonntag VKH: Anterior Cervical Instrumentation. ***Youman's Neurological Surgery, Sixth Edition, Volume 3. Elsevier Saunders, USA.***

Gantwerker B, Dickman CA, Sonntag VKH: Craniocervical Junction Instability After Lateral Approach of the Craniocervical Junction. ***Pathology and Surgery Around The Vertebral Artery. Springer, Paris.***

Lazaro BCR, Crawford N, Sonntag VKH: Oblique Corpectomy Biomechanics. ***Pathology and Surgery Around The Vertebral Artery. Springer, Paris.***

Published 2009 (3)

Rodgers RB, Horn EM, Sonntag VKH: Acute Treatment of Patients with Spinal Cord Injury. *The Spine, Sixth Edition, Volume 2. Elsevier Saunders, USA.*

Mit Geleitworten von Klaus Roosen und Sonntag VKH, Geleitwort II. *Spinale Neurochirurgie.* Schattauer GmbH, Holderlinstrafs, Germany.

Webb KM, Burnett M, Sonntag VKH: Posterior Craniocervical Instrumentation. *Cervical Spine Trauma. Wolters Kluwer Pharma Solutions, USA.*

Published 2006 (4)

Baskin J., Sawin P, Hartl R, Dickman C, Sonntag VKH: Surgical Techniques for Stabilization of the Subaxial Cervical Spine (C3-C7). *Operative Neurosurgical Techniques Fifth Edition Volume 2.* Saunders, Philadelphia, PA.

Horn E, Forage J, Sonntag VKH: Acute Treatment of Patients with Spinal Cord Injury. *The Spine Fifth Edition Volume 2.* Saunders, Philadelphia, PA.

Theodore N, Dickman CA, Sonntag VKH, Rogers L: Brachytherapy for Malignant Spinal Tumors. *Spinal Cord and Spinal Column Tumors Principles and Practice.* Thieme, NY.

Galler R, Sonntag VKH: Surgical Approaches for Tumor Resection and Reconstruction of the Cervical Spine. *Spinal Cord and Spinal Column Tumors Principles and Practice.* Thieme, NY.

Published 2005 (3)

Bartolomei J, Theodore N, Sonntag VKH: Adjacent Level Degeneration After Anterior Cervical Fusions: A Clinical Review. *Neurosurgery Clinics of North America.* Saunders, Philadelphia, PA.

Hott, J, Sonntag VKH: Large Intradural-Extramedullary Cervical spine tumor. *Neurosurgery of Complex Cascular Lesions and Tumors.* Thieme, New York, NY.

Hott J, Sonntag VKH: Intraosseous Tumor of the Cervical Spine. . *Neurosurgery of Complex Cascular Lesions and Tumors.* Thieme, New York, NY.

Published 2004 (5)

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Hadley MN, Browner CM, Sonntag VKH: Neurosurgical management of thoracolumbar junction fractures. Annual Meeting, AANS/CNS, Joint Section of Spinal Disorders. San Diego, California, February 1986.

Hadley MN, Sonntag VKH, Amos R, Hodak JA: Three-dimensional computerized tomography in the diagnosis of vertebral column pathology. Annual Meeting, AANS Scientific Program, Denver, Colorado, April 1986.

Hadley MN, Zabramski JM, Browner CM, Rekate HL, Sonntag VKH: Pediatric spinal trauma. Annual Meeting, AANS Scientific Program, Denver, Colorado, April 1986.

Marano SR, Sonntag VKH, Spetzler RF: Neurological complications after penetrating and blunt trauma to the vertebral artery. Annual Meeting, AANS Scientific Program, Denver, Colorado, April 1986.

Zabramski JM, Hadley MN, Browner CM, Schiller W, Young D, Sonntag VKH: Cranial/spinal trauma in all-terrain-vehicle injuries. Annual Meeting, AANS Scientific Program, Denver, Colorado, April 1986.

1985 (6)

Bloomfield SM, Browner CM, Sonntag VKH: Traumatic cervical spine subluxation without fracture: Review of 93 cases. 35th Annual Meeting, CNS, Honolulu, Hawaii, October 1985.

Hadley MN, Browner CM, Sonntag VKH: Management of thoracolumbar junction fractures: A review of 110 cases. 35th Annual Meeting, CNS, Honolulu, Hawaii, October 1985.

Marano SR, Fischer DW, Gaines C, Sonntag VKH: An anatomical study of the superficial temporal artery. 76th Annual Meeting, Society of Neurological Surgeons, Phoenix, Arizona, May 1985.

Marano SR, Sonntag VKH: Management of bilateral locked facets of the cervical spine. Annual Meeting, AANS, Atlanta, Georgia, April 1985.

Marano SR, Sonntag VKH: Vertebral artery trauma secondary to fractures and fracture/dislocations of the cervical spine. Annual Meeting, AANS, Atlanta, Georgia, April 1985.

Marano SR, Sonntag VKH: Management of bilateral locked facets of the cervical spine. 76th Annual Meeting, Society of Neurological Surgeons, Phoenix, Arizona, May 1985.

1984 (2)

Marano SR, Fischer DW, Gaines C, Sonntag VKH: An anatomical study of the superficial temporal artery. 7th International Symposium on Microsurgical Anastomoses for Cerebral Ischemia, Phoenix, Arizona, October 1984.

Murphy AR, Mulvahill D, Sonntag VKH: The neurological manifestations of the shake-whiplash injuries in infants. Child Neurological Society, Phoenix, Arizona, October 1984.

VIDEOS

Sonntag VKH, Cooper PR: Anterior approaches to cervical discs and osteophytes (Series 1). In Hadley MN (ed): *Video Perspectives in Neurological Surgery*. Chicago: Congress of Neurological Surgeons; St. Louis: Quality Medical, 1991, pp. 3-23.

Sonntag VKH: Anterior cervical corpectomy (commentary and interview by Richard L. Saunders). *Strategies in Neurological Surgery*. Upjohn, Kalamazoo, MI and LTI MEDICA, Slingerlands, NY, 1993, pp 1-15

BIBLIOGRAPHY PRESENTATIONS*Total Presentations (959)**Presentations 2013 (20)*

Sonntag VKH: Invited Speaker: The Journey of Spinal Neurosurgery in the USA. Spine Business Summit. Phoenix, Arizona. January 31, 2013.

Sonntag VKH: Invited Speaker: Lessons Learned the Hard Way: Pearls and Pitfalls. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Phoenix, Arizona. March 6, 2013.

Sonntag VKH: Invited Speaker: David Cahill Memorial Controversies – No Fusion Necessary. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Phoenix, Arizona. March 7, 2013.

Sonntag VKH: Moderator: Luncheon Symposium – My Worst Outcomes: Complications Avoidance & Management Strategies. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Phoenix, Arizona. March 8, 2013.

Sonntag VKH: Visiting Professor: Management of Craniocervical Injuries. Reeve-Irvine Clinical Lecture, University of California Irvine. Irvine, California. March 15, 2013.

Sonntag VKH: Invited Speaker: Management of Craniocervical Junction Injuries. Congress of Neurological Surgeons of Sao Paulo & Brazilian Congress of Neurosurgical Approaches - Spine. Sao Paulo, Brazil. April 5, 2013.

Sonntag VKH: Invited Speaker: Evidence Based Medicine in Spinal Surgery. Congress of Neurological Surgeons of Sao Paulo & Brazilian Congress of Neurosurgical Approaches - Spine. Sao Paulo, Brazil. April 5, 2013.

Sonntag VKH: Invited Speaker: Lumbar Spine: Fusion vs Dynamic Stabilization. . Congress of Neurological Surgeons of Sao Paulo & Brazilian Congress of Neurosurgical Approaches - Spine. Sao Paulo, Brazil. April 6, 2013.

Sonntag VKH: Invited Speaker: Cervical Instrumentation: Past, Present, and Future. The Annual BNA Preconference Cadaveric Workshop 2013. Mumbai, India. April 20, 2013.

Sonntag VKH: Invited Speaker: Surgery at the CV Junction. 11th Annual Conference of Bombay Neuroscience Association. Mumbai, India. April 21, 2013.

Sonntag VKH: Visiting Professor: Cervical Spine Instrumentation: Past, Present, and Future. Thomas Jefferson University, Philadelphia, PA. June 7, 2013.

Sonntag VKH: Moderator: Surgical Management of Cervical Disc Prolapse: Standard vs Minimally Invasive. World Federation of Neurosurgical Societies. Seoul, Korea. September 9, 2013.

Sonntag VKH: Moderator: Cervical TDR. World Federation of Neurosurgical Societies. Seoul, Korea. September 12, 2013.

Sonntag VKH: Invited Speaker: Transoral Approaches for Craniocervical Tumors. 2013 Barrow Neuro-Oncology Symposium. Phoenix, Arizona. September 15, 2013.

Sonntag VKH: Invited Speaker. Cervical Instrumentation: Past, Present, and Future. Neuroscience Society of Queens, Nassau and Suffolk Annual Meeting. Long Island, NY. October 10, 2013.

Sonntag VKH: Invited Speaker: Transoral Approach to the CV Junction. Comprehensive Clinical Neurosurgery Review. Krakow, Poland. December 2, 2013.

Sonntag VKH: Invited Speaker: Craniocervical Junction Instrumentation. Comprehensive Clinical Neurosurgery Review. Krakow, Poland. December 2, 2013.

Sonntag VKH: Invited Speaker: Cervical Instrumentation Techniques & Pearls of Cervical Surgery. Comprehensive Clinical Neurosurgery Review. Krakow, Poland. December 2, 2013.

Sonntag VKH: Invited Speaker: Complications of Cervical Spine Surgery. Comprehensive Clinical Neurosurgery Review. Krakow, Poland. December 2, 2013.

Sonntag VKH: Invited Speaker: Lumbar Spine Fusion vs Dynamic Stabilization. Comprehensive Clinical Neurosurgery Review. Krakow, Poland. December 2, 2013.

Presentations 2012 (23)

Sonntag VKH: Invited Speaker: Evidence-Based Medicine and Spinal Surgery – What do We Know? 2012 Salzburg Weill Cornell Seminar in Spinal Surgery. Salzburg, Austria. January 26, 2012.

Sonntag VKH: Invited Speaker: Cranio-Cervical Trauma. 2012 Salzburg Weill Cornell Seminar in Spinal Surgery. Salzburg, Austria. January 26, 2012.

Sonntag VKH: Visiting Professor: Journey of Spinal Neurosurgery in the United States. Innsbruck Medical University. Innsbruck, Austria. February 2, 2012.

Sonntag VKH: Visiting Professor: Cervical Instrumentation: Past, Present, and Future. Innsbruck Medical University. Innsbruck, Austria. February 2, 2012

Sonntag VKH: Visiting Professor: Soccer and Neurosurgery. Innsbruck Medical University. Innsbruck, Austria. February 2, 2012.

Sonntag VKH: Visiting Professor: Cervical Instrumentation: Past, Present and Future. University of Southern California. Los Angeles, CA. February 24, 2012.

Sonntag VKH: Honored Guest Speaker: Resident Training Program Update. Texas Association of Neurological Surgeons. Houston, TX. March 2, 2012.

Sonntag VKH: Honored Guest Speaker: Occipitocervical Fusion. Texas Association of Neurological Surgeons. Houston, TX March 2, 2012.

Sonntag VKH: Invited Lecture: The Journey of Spinal Neurosurgery in North America. 10th Annual AOSpine North America Fellows Forum. Banff Springs, Canada March 16, 2012

Kushchayev SV, Wiener P, Spetzler RF, Sonntag VKH, Preul M. Oral Presentation: Percutaneous Vertebroplasty: A History of Procedure, Technology, Culture, Specialty, and Critical Economics. American Association of Neurological Surgery Annual Meeting, Miami, FL. April 14-18, 2012

Sonntag VKH: Edward S. Connolly, M.D. Lectureship in Neuroscience: Treatment of Craniovertebral Junction Injuries. Tulane University/Ochsner Clinic Foundation. New Orleans, LA April 27, 2012.

Sonntag VKH: Visiting Professor: Management of Craniovertebral Junction Injuries. Donaghy Day Lecturer, University of Vermont. Burlington, VT June 14, 2012.

Sonntag VKH: Visiting Professor: Cervical Instrumentation: Past, Present & Future. Yale University. New Haven, CT June 20, 2012.

Sonntag VKH: Visiting Professor: Cervical Instrumentation: Past, Present & Future. Tufts Medical Center. Boston, MA, November 29, 2012.

Sonntag VKH: Visiting Professor: Management of Craniovertebral Junction Injuries. University of Geneva, Switzerland. December 5, 2012.

Sonntag VKSH: Visiting Professor: Evidence Based Medicine in Spinal Surgery. University of Geneva, Switzerland. December 5, 2012.

Sonntag VKH: Invited Speaker: Evidence Based Medicine in Spinal Surgery. Medical University Lodź. Lodź, Poland June 27, 2012.

Sonntag VKH: Invited Speaker: Management of Craniovertebral Junction Injuries. Medical University Lodź. Lodź, Poland June 27, 2012.

Sonntag VKH: Invited Speaker: Personal Experience of 4 World Cups. Medical University Lodź. Lodź, Poland June 27, 2012.

Sonntag VKH: Invited Speaker: Cervical Instrumentation: Past, Present & Future. Update in Neurosurgery: The BNI Experience. Novara, Italy. September 21, 2012

Sonntag VKH: Invited Speaker: Management of Lumbar Stenosis & Lumbar Disc Herniation. Update in Neurosurgery: The BNI Experience. Novara, Italy. September 21, 2012

Sonntag VKH: Invited Speaker: History of the Pedicle Screw. World Academy of Neurological Surgery Interim Meeting. Phoenix, AZ. October 12, 2012

Presentations 2011 (28)

Sonntag VKH: Visiting Professor Grand Rounds Presentation: Frontiers of Spinal Neurosurgery. Loma Linda University, Loma Linda, CA January 12, 2011

Sonntag VKH: Management of Craniocervical Junction Injuries: Hands-On Course of Young Neurosurgeons of the East, Central and Southern African Region. Tanzania, Africa January 26, 2011

Sonntag VKH: Instrumentation of the Cervical Spine: Hands-On Course of Young Neurosurgeons of the East, Central and Southern African Region. Tanzania, Africa January 26, 2011

Sonntag VKH: Visiting Professor Grand Rounds Presentation: Frontiers of Spinal Neurosurgery. Stanford University Medical Center, Stanford, CA February 11, 2011.

Sonntag VKH: Visiting Professor Grand Rounds Presentation: Frontiers of Spinal Neurosurgery. Swedish Neuroscience Institute, Seattle WA February 16, 2011.

Sonntag VKH: Complication Avoidance and Management with Vertebral Artery Injury – Discussion. AANS/CNS Section on Disorders of the Spine & Peripheral Nerves. Phoenix, AZ March 10, 2011

Sonntag VKH: Traumatic Dislocation of the Craniocervical Junction. AANS/CNS Section on Disorders of the Spine & Peripheral Nerves. Phoenix, AZ, March 11, 2011.

Sonntag VKH: Surgical Management of Traumatic Injuries to the Craniocervical Junction. 1st International Symposium on Spine Surgery. Buenos Aires, Argentina, March 22, 2011

Sonntag VKH: Lumbar Stenosis: How to Treat It. 1st International Symposium on Spine Surgery. Buenos Aires, Argentina, March 23, 2011.

Sonntag VKH: Visiting Professor Grand Rounds Presentation: Cervical Instrumentation: Past, Present, Future. Harvard University, Boston, MA April 14, 2011.

Sonntag VKH: Visiting Professor Grand Rounds Presentation: Cervical Spine Instrumentation. University of Minnesota, Minneapolis, MN May 13, 2011.

Sonntag VKH: Shelley N. Chou Lecture: The Journey of Spinal Neurosurgery in the USA. University of Minnesota, Minneapolis, MN May 13, 2011.

Sonntag VKH: Debate – Spinal Surgery: Neurosurgery Leads the Way, or has Lost its Way? Society of Neurological Surgeons, Portland, OR, May 23, 2011.

Sonntag VKH: Hands-On cadaver workshop for advanced occipito-cervical and upper cervical surgery. Taiwan Neurospinal Society, Taipei, Taiwan. August 6-7, 2011.

Sonntag VKH: Invited Lecture: Management of Cervical Vertebral Junction Injuries. New England Neurosurgical Society, Chatham, MA. June 2011.

Sonntag VKH: Invited Lecture: The Journey of Spinal Neurosurgery in the United States. 2011 Spine Review Course. Cleveland, OH. July 15, 2011

Sonntag VKH: Invited Lecture: Occipitocervical Fixation. 2011 Spine Review Course. Cleveland, OH. July 15, 2011.

Sonntag VKH: Invited Lecture: Excellence in Spinal Neurosurgery. Taiwan Neurospinal Society: 2011 Summer Educational Course Program of Advanced Spinal Surgery. Taipei, Taiwan. August 6, 2011

Sonntag VKH: Invited Lecture: Frontiers of Spinal Neurosurgery. Taiwan Neurospinal Society: 2011 Summer Educational Course Program of Advanced Spinal Surgery. Taipei, Taiwan. August 6, 2011.

Sonntag VKH: Invited Lecture: Transoral surgery. Taiwan Neurospinal Society: 2011 Summer Educational Course Program of Advanced Spinal Surgery. Taipei, Taiwan. August 6, 2011.

Sonntag VKH: Invited Lecture: Cervical Instrumentation: Past, Present and Future. Western Neurosurgical Society. Kauai, HI, September 12, 2011.

Sonntag VKH: Invited Lecture: Discoenic Pain and Instability: Surgical Management. Congress of Continuous Education of the Brazilian Society of Neurosurgery. Porto de Galinhas, Brazi, September 2011.

Sonntag VKH: Invited Lecture: Transoral Approach. Congress of Continuous Education of the Brazilian Society of Neurosurgery. Porto de Galinhas, Brazi, September 2011.

Sonntag VKH: Invited Lecture: C1-C2 Fusion. Congress of Continuous Education of the Brazilian Society of Neurosurgery. Porto de Galinhas, Brazi, September 2011.

Ghogawala Z, Benzel EC, Butler WE, Magge SN, Commons JV, Harrington JF, Sonntag VKH, Barker FG: Lumbar Spinal Fusion Reduces Risk of Re-operation After Laminectomy for Lumbar Spinal Stenosis with Grade 1 Degenerative Spondylolisthesis: The Slip Trial and Neuropoint Sheriff's Department. American Academy of Neurological Surgeons, Scottsdale, Arizona, October 2011.

Sonntag VKH: Visiting Professor: Management of Craniocervical Junction Injuries" University of Texas. Houston, TX October 13, 2011

Sonntag VKH: Visiting Professor: Personal Reflections of the Cold War. Charite Universitätsmedizin Berlin. Berlin, Germany, November 10, 2011

Sonntag VKH: Invited Lecture: Journey of Spinal Neurosurgery in the United States. 23rd Annual Pan Philadelphia Neurosurgery Conference, Philadelphia, PA. December 2, 2011

Presentations 2010 (19)

Sonntag VKH: History of Spine. Keynote speaker. Decision Making Strategies in the Aging Spine. Scottsdale, Arizona. January 29, 2010.

Sonntag VKH: Transoral Approaches. Surgical Treatment of the Craniocervical Junction – Stryker Spine. Phoenix, AZ February 15-16, 2010.

Sonntag VKH: Transoral Demonstration. Practical Session II. Surgical Treatment of the Craniocervical Junction – Stryker Spine, Phoenix, AZ February 15-16, 2010.

Sonntag VKH: Demonstration – CT Rotocol with Image Guidance CO-T2 Occiput-C1/C2 Technique Subaxial Spine Fixation Techniques. Practical Session III. Surgical Treatment of the Craniocervical Junction – Stryker Spine, Phoenix, AZ February 15-16, 2010.

Sonntag VKH: Techniques of Posterior Cervical Fixation: Occiput C1-C2. Surgical Treatment of the Craniocervical Junction – Stryker Spine, Phoenix, AZ February 15-16, 2010.

Sonntag VKH: Management of Craniovertebral Junction Injuries – Grand Rounds, General Surgery, St. Joseph's Hospital and Medical Center, Phoenix, AZ March 9, 2010

Sonntag VKH: Lumbar Stenosis: How to Treat It – 36th Annual Barrow Symposium, Barrow Neurological Institute, Phoenix, AZ March 11, 2010

Sonntag VKH: Surgical Management of Craniocervical Junction Injuries – Grand Rounds University of Pennsylvania, Philadelphia, PA April 29, 2010.

Sonntag VKH: History of Spinal Surgery Instrumentation Technology – American Association of Neurological Surgery Annual Meeting, Philadelphia, PA May 3, 2010.

Sonntag VKH: The Evolution of Spinal Neurosurgery In the United States – NeuroTexas Institute, Austin, TX May 12, 2010.

Sonntag VKH: Surgical Management of Craniovertebral Injuries – International Neurosurgery Congress, Hannover, Germany, July 24, 2010.

Sonntag VKH: Visiting Professor: Grand Rounds Presentation: The Frontier of Spinal Neurosurgery. University of Arizona, Tucson, AZ August 6, 2010

Sonntag VKH: Keynote speaker: The Privilege to Care. University of Arizona College of Medicine White Coat Ceremony, University of Arizona, Tucson, AZ August 6, 2010.

Sonntag VKH: The Universe of Spine Surgery: A Neurosurgeon's Historical Perspective. Pittsburgh Spine Summit. Pittsburgh, PA September 11, 2010.

Sonntag VKH: Evidence Based Medicine in Spinal Neurosurgery. German Society of Neurosurgery. Heidelberg, Germany September 23, 2010

Sonntag VKH: Management of Traumatic Craniocervical Junction Injuries. Slovakia/Czechoslovakia Congress of Neurosurgery. Vysoke Tatry, Slovakia September 29, 2010

Sonntag VKH: Visiting Professor: Grand Rounds Presentation: Discovery of the Spine Specialist: Instrumentation of the Cervical Spine. University of Cincinnati, Cincinnati, OH October 13, 2010.

Sonntag VKH: Surgical Management of Injuries to the Craniovertebral Junction. Taiwan Neurosurgical Society. Taipei, Taiwan November 8, 2010.

Sonntag VKH: Cervical Instrumentation: Past, Present, and Future. Taiwan Neurosurgical Society. Taipei, Taiwan November 9, 2010.

Presentations 2009 (22)

Sonntag VKH: Lumbar Stenosis. Grand Rounds Barrow Neurological Institute, Phx, AZ, January 9, 2009.

Sonntag VKH: Growing Role of Neurosurgeons in Spinal Deformity. Deformity for Neurosurgeons- Stryker Spine. Phoenix, AZ. February 26-27, 2009.

Sonntag VKH: The Evolution of Cervical Spinal Instrumentation. 35th Annual Barrow Symposium. Phoenix, AZ. March 5-6, 2009.

Sonntag VKH: Recurrent Disc: Fuse or No Fusion. AANS/CNS Joint Section Meeting. Phx, AZ. March 11-14, 2009.

Sonntag VKH: R. Eustance Semmes Lecturer: Cervical Instrumentation: Past, Present and Future. 60th Southern Neurosurgical Society Annual Meeting Greensboro, Georgia. March 25-28, 2009.

Sonntag VKH: Visiting Professor. Grand Rounds Presentation: Surgical Management of Craniocervical Junction Injuries. University of MO. April 28-29, 2009.

Sonntag VKH: Panelist: Spinal Surgical Challenges, AANS Annual Meeting. San Diego, CA. May 2-6, 2009.

Sonntag VKH: GS Discussant: Results of Interspinous Process Distraction Device Placement: 2 Year Follow-Up. AANS Annual Meeting. San Diego, CA. May 2-6, 2009.

Sonntag VKH: Invited Speaker: Frontiers of Spine. Oregon Neurosurgical Society. Portland, OR. May 29-30, 2009.

Sonntag VKH: Invited Speaker: Surgical Management of the Craniocervical Junction.. Oregon Neurosurgical Society. Portland, OR. May 29-30, 2009.

Sonntag VKH: Invited Speaker-N. Bambakidis Spine Course : Treatment of the Craniocervical Junction. Cleveland, OH June 22-23, 2009.

Sonntag VKH: Invited Speaker-N. Bambakidis Spine Course : Transoral Approaches. Cleveland, OH . June 22-23, 2009.

Sonntag VKH: Invited Speaker-N. Bambakidis Spine Course : Techniques of Posterior Cervical Fixation – Occiput C1-C2 Practical Session III. Cleveland, OH. June 22-23, 2009.

Sonntag VKH: Moderator: Welcome & Complication Session 1. Complications in Spine Surgery and M&M Conference. Teton Village Wyoming. August 27-29, 2009.

Sonntag VKH: New Developments in Spinal Surgery. WFNS World Congress, Boston, MA. August 30-September 4, 2009.

Sonntag VKH: Metastatic Spine Cancer. WFNS World Congress, Boston, MA. August 30-September 4, 2009.

Sonntag VKH: Lumbar Stenosis: Laminectomy, Fusion or Instrumentation. WFNS World Congress, Boston, MA. August 30-September 4, 2009.

Sonntag VKH: Invited Speaker- Cervical Instrumentation – Past, Present & Future” 4th Annual Turkish Surgical Neurology Association. October 1-4, 2009.

Sonntag VKH: Invited Speaker – Upper Cervical Trauma. 4th Annual Turkish Surgical Neurology Association. October 1-4, 2009.

Sonntag VKH: Defining Excellence in Spinal Neurosurgery. Congress of Neurological Surgery. New Orleans, LA. October 24-29, 2009.

Sonntag VKH: History of Instrumentation. Fundamentals in Spinal Surgery for Residents. Spine Masters Institute, Burr Ridge IL. November 12-22, 2009.

Sonntag VKH: Controversies of MIS. Indications and Controversies of Minimally Invasive Spine Surgery. Weill Cornell Medical College. December 10-12, 2009.

Presentations 2008 (24)

Sonntag VKH: History of Spinal Surgery. 24th Annual Meeting of the AANS/CNS section on disorders of the spine and peripheral nerves. Orlando, FL, February 27-March 1, 2008.

Sonntag VKH: Visiting Professor. Cervical Instrumentation. Baystate Medical Center Abbasy Lecturer. Boston, MA. March 19-20, 2008.

Sonntag VKH: Septic Complication of Spine Surgery. 34th Annual Barrow Symposium, Phoenix, Arizona. March 13-15, 2008.

Sonntag VKH: Frontiers of Spine Surgery. 34th Annual Barrow Symposium, Phoenix, Arizona. March 13-15, 2008.

Sonntag VKH: Visiting Professor: Decision Making in Degenerative Cervical Spine Surgery. University of Florida. Gainesville, FL. April 3-4, 2008.

Sonntag VKH: Visiting Professor: Instrumentation of the Cervical Spine. University of Florida. Gainesville, FL. April 3-4, 2008.

Sonntag VKH: Visiting Professor: Decision Making in Degenerative Cervical Spine Surgery. University of Illinois. Chicago, IL April 18-19, 2008.

Sonntag VKH: Visiting Professor: Instrumentation of the Cervical Spine. University of Illinois. Chicago, IL April 18-19, 2008.

Sonntag VKH: Honored Guest Lecturer: Growing Role of Neurosurgeons in Spinal Deformity. Deformity for Neurosurgeons Stryker Spine Phoenix, AZ April 11, 2008.

Sonntag VKH: Moderator: Intramedullary Spinal Cord Tumors. AANS Annual Meeting, Chicago, ILL, April 26-May 1, 2008.

Sonntag VKH: Moderator: Spinal Cervical Challenges. AANS Annual Meeting, Chicago, ILL, April 26-May 1, 2008.

Sonntag VKH: Moderator: Complications and Complex Spinal Surgery: Lessons Learned. AANS Annual Meeting, Chicago, ILL, April 26-May 1, 2008.

Horn E, Theodore N, Assina R, Spetzler R, Sonntag VKH, Preul M: The Effects of Intrathecal Hypotension on Tissue Perfusion and Pathophysiological Outcome Following Acute Spinal Cord Injury. AANS Annual Meeting, Chicago, ILL, April 26-May 1, 2008.

Sonntag VKH: Complex Spinal Reconstruction. Washington State Associations of Neurological Surgeons Annual Meeting, Seattle, WA May 31, 2008.

Sonntag VKH: Matson Lecture: Cervical Instrumentation. Department of Neurosurgery Brigham and Women's Hospital, Boston, MA. June, 2008.

Sonntag VKH: Case Presentations Kasdon Society Research Meeting: Jackson Hole, WY July 13-15, 2008.

Sonntag VKH: Decision Making in Cervical Spine Surgery 2008 Skills in Neurosurgery. Barrow Neurological Institute. Phoenix, AZ October 3-4, 2008.

Sonntag VKH: Traumatic injuries in pediatric population. International Conference on Spine Surgery and Rehabilitation. Milano, Italy October 6-8, 2008.

Sonntag VKH: Treatment of vertebral benign tumors of the spine. International Conference on Spine Surgery and Rehabilitation. Milano, Italy October 6-8, 2008.

Sonntag VKH: Guest Speaker: Lumbar Spine: Fusion v. Dynamic Stabilization. Latin American Federation of Neurosurgery, Bogota, Colombia, October 25-30, 2008.

Sonntag VKH: Treatment of Type 11 Odontoid Fractures management of combination fractures of atlas and axis. 3rd International Congress "Selected Topics in Neurosurgery". November 6-8, 2008.

Sonntag VKH: Cervical Arthroplasty-What is the real role. 3rd International Congress “Selected Topics in Neurosurgery”. November 6-8, 2008.

Sonntag VKH: Anterior cervical approach for the treatment of cervical myelopathy. 3rd International Congress “Selected Topics in Neurosurgery”. November 6-8, 2008.

Sonntag VKH: Visiting Professor- Frontiers in Spinal Surgery. ACMEC, Boise, Idaho. November 21, 2008.

Presentations 2007 (26)

Sonntag VKH: Cervical Instrumentation. 33rd Annual Barrow Symposium, Phoenix, AZ February 28- March 2, 2007.

Sonntag VKH: Blinderman Lecture in Spinal Surgery: History of Cervical Spine Instrumentation Cedars-Sinai Medical Center, Los Angeles, CA March 14, 2007.

Sonntag VKH: Cervical Arthroplasty: Friend or Fad, Whats the Real Role?. AANS/CNS Joint Section Meeting March 9, 2007.

Sonntag VKH: (Grand Rounds) The Neurosurgeon as Mentor and Student. Barrow Neurological Institute, Phoenix, AZ March 30, 2007.

Sonntag VKH: (Facility) Cervical Spine Instability: Instrumentation and Other Methods of Management. AANS Annual Meeting, Washington, DC. April 14-19, 2007.

Sonntag VKH: Defining Working Areas and Safety Zones: A Quantitative Anatomic and Morphometric Evaluation of the Atlas for Posterior Lateral Mass Screw Placement. AANS Annual Meeting, Washington, DC. April 14-19, 2007.

Sonntag VKH: (Panelists) Masters of Spinal Surgery: My Most Challenging Cases. AANS Annual Meeting, Washington, DC. April 14-19, 2007.

Sonntag VKH: (Panelists) Complications and Complex Spinal Surgery: Lessons Learned. AANS Annual Meeting, Washington, DC. April 14-19, 2007.

Sonntag VKH: (Levy Lecturer) Complex Spine Reconstruction. LSUHCS, Shreveport, LA, May 1-2, 2007.

Sonntag VKH: Subspecialty Perspectives – Spine. Society of Neurological Surgeons. San Fransisco, CA. May 7, 2007.

Sonntag VKH: Instrumentation of the Cervical Spine. 301 Forum in Neurosurgery. Beijing, China. May 19-21, 2007.

Sonntag VKH: (Visiting Professor) History of Instrumentation of the Cervical Spine. University of Pittsburgh School of Medicine. Pittsburgh, PA. June 5-7, 2007.

Sonntag VKH: State of Spine in Neurosurgery in the USA. World Academy of Neurological Surgery Second Biennial Congress. Verona, Italy. June 15-17, 2007.

Sonntag VKH: Craniovertebral Junction: Perils & Challenges. XIX Mexican Congress of Neurological Surgery. Mexico City, Mexico. July 9-11, 2007.

Sonntag VKH: Motion Preserving Spinal Surgery: Indications and Outcomes. XIX Mexican Congress of Neurological Surgery. Mexico City, Mexico. July 9-11, 2007.

Sonntag VKH: The Management of Degenerative Lumbar Spondylosis. XIX Mexican Congress of Neurological Surgery. Mexico City, Mexico. July 9-11, 2007.

Sonntag VKH: Protesis Discal Ideal. XIX Mexican Congress of Neurological Surgery. Mexico City, Mexico. July 9-11, 2007.

Sonntag VKH: Primary Tumors of the Spinal Cord. Neurosurgery Update 2007 in the Wine Country. Napa Valley, CA August 2-4, 2007.

Sonntag VKH: Intraoperative Salvage Techniques: Getting out of Trouble in Spinal Surgery. Congress of Neurological Surgeons. San Diego, CA. September 18-24, 2007.

Sonntag VKH: Intraoperative Salvage Techniques: Consult with your expert Colleagues-Spine. Congress of Neurological Surgeons. San Diego, CA. September 18-24, 2007.

Sonntag VKH: Visiting Professor. The Journey of Spinal Neurosurgery in the US. The 17th John Raaf Day Lecturer. OHSU Portland Oregon, September 27-29, 2007.

Sonntag VKH: Visiting Professor. Arthroplasty of the Spine. The 17th John Raaf Day Lecturer. OHSU Portland Oregon, September 27-29, 2007.

Sonntag VKH: Management of C1-C2 Fractures. 47th Korean Neurosurgery Meeting & World Federation of Neurosurgical Society, Inerim Meeting & Asocian-Australasian Society of Neurological Surgeons Congress November 12-21, 2007.

Sonntag VKH: Surgical Arthrodesis of the Cervical Spine. 47th Korean Neurosurgery Meeting & World Federation of Neurosurgical Society, Inerim Meeting & Asocian-Australasian Society of Neurological Surgeons Congress November 12-21, 2007.

Sonntag VKH: Lumbar Spine: Fusions vs Syamic Stabilization.. 47th Korean Neurosurgery Meeting & World Federation of Neurosurgical Society, Inerim Meeting & Asocian-Australasian Society of Neurological Surgeons Congress November 12-21, 2007.

Sonntag VKH: Complex Spinal Instrumentation. 47th Korean Neurosurgery Meeting & World Federation of Neurosurgical Society, Inerim Meeting & Asocian-Australasian Society of Neurological Surgeons Congress November 12-21, 2007

Presentations 2006 (30)

Sonntag VKH: (Honored Guest) Decision Making in Degenerative Cervical Spine Surgery. Neurosurgical Society of the Virginias. Greenbrier, West Virginia. January 19-21, 2006.

Sonntag VKH: (Honored Guest) The Neurosurgeon as Mentor and Student. Neurosurgical Society of the Virginias. Greenbrier, West Virginia. January 19-21, 2006.

Sonntag VKH: Rationale or Irrationale for Disc Replacement. Mayo Clinic's International Spine Surgery & Tumor Symposium. Kauai, Hawaii. January 15-17, 2006.

Sonntag VKH: Mangement of Craniocervical Instabililty. Mayo Clinic's International Spine Surgery & Tumor Symposium. Kauai, Hawaii. January 15-17, 2006.

Sonntag VKH: Rationale for Cervical Artificial Disc Replacement. Fifth Annual Symposium on Current Concepts in Spinal Disorders. Las Vegas, Nevada. February 3, 2006.

Sonntag VKH: Artifical Disc: Rationale vs. Irrantional for Disc Replacement. Richard Lende Sinter Neurosurgical Conference. Salt Lake City, Utah. February 4-8. 2006.

Sonntag VKH: The Neurosurgeon as Mentor and Student. Richard Lende Sinter Neurosurgical Conference. Salt Lake City, Utah. February 4-8. 2006.

Sonntag VKH: Surgical Management of Craniocervical Junction Injuries. Richard Lende Sinter Neurosurgical Conference. Salt Lake City, Utah. February 4-8. 2006.

Sonntag VKH: (Visiting Professor)Development of Cervical Spine Instrumentation. University Louisville, Louisville KY. February 22-23. 2006.

Sonntag VKH: Management of Bilateral Locked Facets. 32nd Annual Barrow Symposium. Phoenix, Arizona. March 1-2, 2006.

Sonntag VKH: Spine Workshop. 32nd Annual Barrow Symposium. Phoenix, Arizona. March 1-2, 2006.

Sonntag VKH: Hands on Clinic. Cervical Spine Instability: Instrumentation and Other Methods of Management. AANS Annual Meeting. San Fransisco, CA. April 22-27, 2006.

Sonntag VKH: (Panelist): Masters of Spinal Surgery: My Most Challenging Cases. AANS Annual Meeting. San Fransisco, CA. April 22-27, 2006.

Sonntag VKH: (Speaker): The Rhoton Family Lecture. The Journey of Spinal Neurosurgery. AANS Annual Meeting. San Fransisco, CA. April 22-27, 2006.

Sonntag VKH: (Discussant): Cone Pevehouse Award Presentation: Survival Analysis for 540 Patients with Primary Spinal Intramedullary Gliomas in England and Wales: A population-based Study. AANS Annual Meeting. San Fransisco, CA. April 22-27, 2006.

Sonntag VKH: (Moderator): Complications and Complex Spinal Surgery Lessons Learned. AANS Annual Meeting. San Fransisco, CA. April 22-27, 2006.

Sonntag VKH: Complex Spine Reconstruction. American Academy of Neurological Surgery & Latin-American Congress of Neurosurgery. October 18-24, 2006.

Sonntag VKH: Trans Oral Approach. American Academy of Neurological Surgery & Latin-American Congress of Neurosurgery. October 18-24, 2006.

Sonntag VKH: Occipitocervical Arthrodesis. American Academy of Neurological Surgery & Latin-American Congress of Neurosurgery. October 18-24, 2006.

Sonntag VKH: Instrumentation in Cervical Spine. American Academy of Neurological Surgery & Latin-American Congress of Neurosurgery. October 18-24, 2006.

Sonntag VKH: The Journey of Spinal Neurosurgery. American Academy of Neurological Surgery & Latin-American Congress of Neurosurgery. October 18-24, 2006.

Sonntag VKH: Intraoperative Salvage Techniques: Getting out of Trouble in Spinal Surgery. Barrow Nursing Symposium. Barrow Neurological Institute, November 2, 2006.

Sonntag VKH: Cervical Instrumentation: Past, Present and Future. IV International Symposium of Spine Diseases. November 15-19, 2006.

Sonntag VKH: Rationale v. Irrational for cervical arthroplasty. IV International Symposium of Spine Diseases. November 15-19, 2006.

Sonntag VKH: Cervical Spine Reconstruction. IV International Symposium of Spine Diseases. November 15-19, 2006.

Sonntag VKH: Management of Bilateral Locked Facets. IV International Symposium of Spine Diseases. November 15-19, 2006.

Sonntag VKH: Complications of Cervical Spine Surgery. IV International Symposium of Spine Diseases. November 15-19, 2006.

Sonntag VKH: Neurosurgery: 2006 Literature in Review. Congress of Neurological Surgeons, Chicago, ILL. October 8-12, 2006.

Sonntag VKH: Intraoperative Salvage Techniques: Getting out of Trouble in Spinal Surgery. Congress of Neurological Surgeons, Chicago, IL October 8-12, 2006.

Sonntag VKH: Special Course VI – Cervical Artificial Discs: How Good Do They Have To Be Worthwhile? Congress of Neurological Surgeons, Chicago, IL October 8-12, 2006.

Presentations 2005 (24)

Sonntag VKH: (Visiting Professor) Lumbar Fusion: Cage, Screws and Plate for lumbar Instability. Police General Hospital, Bangkok, Thailand. January 22-28, 2005.

Sonntag VKH: (Visiting Professor) Fixation Techniques of the Cervical Spine. Police General Hospital, Bangkok, Thailand. January 22-28, 2005.

Sonntag VKH: (Visiting Professor) Teaching Posterior Fusion with Pedicle Screws on sawbones. Police General Hospital, Bangkok, Thailand. January 22-28, 2005.

Sonntag VKH: (Visiting Professor) Live Surgery; Lumbar Fusion. Police General Hospital, Bangkok, Thailand. January 22-28, 2005.

Sonntag VKH: Complex Spinal Reconstruction. 31st Annual Barrow Symposium. Phoenix, Arizona, March 2-4, 2005.

Sonntag VKH: Spine Workshop: Reconstruction of the Upper Cervical Spine. 31st Annual Barrow Symposium. Phoenix, Arizona, March 2-4, 2005.

Sonntag VKH: Cervical Spondylosis. 21st Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Phoenix, Arizona, March 9-12, 2005.

Sonntag VKH: Practical Clinic (Faculty): Cervical Spine Instability: Instrumentation and Other Methods of Management. AANS New Orleans Annual Meeting April 16-21, 2005.

Sonntag VKH: Moderator: Complications in Complex Spinal Surgery: Lessons Learned. AANS New Orleans Annual Meeting April 16-21, 2005.

Sonntag VKH: Invited Lecturer: Tackling A Controversy: Management of Bilateral Locked Facets. AANS New Orleans Annual Meeting April 16-21, 2005.

Sonntag VKH: Visiting Professor: Instrumentation of the Cervical Spine. Ohio State University, Columbus Ohio. May 4-5, 2005.

Sonntag VKH: Visiting Professor: Surgical Management of Cranio-Cervical Junction Injuries. Rochester, Minnesota, May 10-11, 2005.

Sonntag VKH: Basic Management of Spinal Injuries. World Federation of Neurosurgical Societies 13th World Congress of Neurological Surgery. Marrakesh – Morocco. June 19-24, 2005.

Sonntag VKH: Chairman Speaker: Craniovertebral Junction Anomalies. World Federation of Neurosurgical Societies 13th World Congress of Neurological Surgery. Marrakesh – Morocco. June 19-24, 2005.

Sonntag VKH: Chairman Speaker: Cervical Spine: Fixation Techniques. World Federation of Neurosurgical Societies 13th World Congress of Neurological Surgery. Marrakesh – Morocco. June 19-24, 2005.

Sonntag VKH: Visiting Professor: Management of Craniocervical Junction Injuries. St. Vincent's Hospital and Medical Center, New York, New York. June 9-10, 2005.

Sonntag VKH: (Poster) Neurosurgical Management of Cervical Bilateral Facet Dislocation: Anterior vs. Posterior Fixation.

Sonntag VKH: (Poster) Complications of Halo Fixation in the Elderly.

Sonntag VKH: (Poster) Initial Series of Atlantoaxial Stabilization Using a Unique C1-C3 Lateral Mass Screw Fixation Technique.

Sonntag VKH: (Faculty) Neurosurgery: 2005 Literature in Review. Congress of Neurological Surgeons 55th Annual Meeting Boston, Massachusetts. October 8-13, 2005.

Sonntag VKH: (Spinal Expert) Review Significantly Increases Patient Consent to Randomization in the SLIP Study. An Ongoing Prospective, Multi-Center Surgical Trial. Congress of Neurological Surgeons 55th Annual Meeting Boston, Massachusetts. October 8-13, 2005.

Sonntag VKH: (Faculty) Intraoperative Salvage Techniques: "Getting out of Trouble in Spinal Surgery. Congress of Neurological Surgeons 55th Annual Meeting Boston, Massachusetts. October 8-13, 2005.

Sonntag VKH: (J.L. Story Visiting Professor) Neurological Sciences Grand Rounds presentation: Discovery of the Spine Specialist: Instrumentation of the Cervical Spine. Department of Neurosurgery at the University of Texas Medical School. . San Antonio, TX . November 17-18, 2005.

Sonntag VKH: (Visiting Professor) The Transoral Approach to the Craniocervical Junction. University of Calgary Spine. Calgary Canada. December 1-2, 2005.

Presentations 2004 (29)

Sonntag VKH (Invited Speaker); Critical Appraisal of Cervical Vertigo, BNI Balance Center, Phoenix, Arizona, January 23, 2004.

Sonntag VKH: (Invited Speaker): Cervical Spine Reconstruction.

Sonntag VKH, Papadopoulos S: Spinal Image Guidance & Posterior Cervical Instrumentation with the Universal System. Barrow Neurological Institute 30th Annual Symposia , Phoenix, Arizona March 4-6, 2004.

Sonntag VKH: Update of Maintenance of Certification. Neurosurgery at Jackson Hole Winter Meeting Jackson Hole WY. March 6-10, 2004.

Sonntag VKH: Master Surgeon Series: Disectomy, Corpectomy and Laminectomy: How, When and Why?. 20th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, San Diego, March 17-29, 2004.

Sonntag VKH: Image Guidance. 20th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, San Diego, March 17-29, 2004.

Sonntag VKH: Instrumentation is Best. 20th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, San Diego, March 17-29, 2004

Sonntag VKH: (Visiting Professor) Instrumentation of the Cervical Spine. Cleveland Clinic, Cleveland Ohio, April 29-30, 2004.

Sonntag VKH (Visiting Professor) Gardner Lecture: Leading the Future of Spinal Surgery. Cleveland Clinic, Cleveland Ohio, April 29-30, 2004.

Sonntag VKH: (Moderator) Complications in Complex spinal Surgery: Lessons Learned, AANS Annual Meeting Orlando Florida, May 1-6, 2004.

Sonntag VKH: (Speaker) Occipito-Cervical, AANS Annual Meeting Orlando Florida, May 1-6, 2004.

Sonntag VKH: (Faculty) Cervical Spine Instability: Instrumentation and Other Methods of Management. AANS Annual Meeting Orlando Florida, May 1-6, 2004.

Bartolomei J, Theodore N, Potocnjak M, Sonntag VKH: Adjacent Sement Degeneration Following Cervical Fusion A Clinical Review: Neurosurgical Society of America 50th Annual Meeting. Santa Fe, New Mexico June 6-9, 2004.

Sonntag VKH: (Visiting Profesor) Primary Bone Tumors of the Vertebral Axis.Stanford University, San Fransisco California, June 17-18, 2004.

Gonzalez L, Fiorella D, Crawford N, Feiz-Erfan I, Drumm D, Papadopoulos S, Sonntag VKH: C1-2 Vertical Distraction: Radiological Assessment and Treatment. Rocky Mountain Neurosurgical Society 39th Annual Meeting June 12-16, 2004.

Sonntag VKH: (Visiting Professor) Primary Bone Tumors of the Vertebral Axis.Loyola University Chicago Dept. of Neurosurgery, Maywood, Ill. June 24-26, 2004.

Sonntag VKH: (Visiting Professor) Cervical Instrumentation. Loyola University Chicago Dept. of Neurosurgery, Maywood, Ill. June 24-26, 2004

Sonntag VKH: Decision-making in degenerative cervical spine surgery. 18th Biennial Congress of the Society of Neurosurgeons of South Africa Sun City, South Africa August 4-7, 2004.

Sonntag VKH: Management of cranio-cervical junction injury. 18th Biennial Congress of the Society of Neurosurgeons of South Africa Sun City, South Africa August 4-7, 2004.

Sonntag VKH: Cage screw or plate for lumbar instability. 18th Biennial Congress of the Society of Neurosurgeons of South Africa Sun City, South Africa August 4-7, 2004.

Sonntag VKH: Instrumentation of cervical spine. 18th Biennial Congress of the Society of Neurosurgeons of South Africa Sun City, South Africa August 4-7, 2004.

Sonntag VKH: Microsurgical Treatment of Intramedullar Spinal Cord Tumors: 2nd International Symposium Micro-Neurosurgical Anatomy, Antalya Turkey September 30- October 3, 2004.

Sonntag VKH: Cervical Microdisectomy of Myeloradiculopathy. 2nd International Symposium Micro-Neurosurgical Anatomy, Antalya Turkey September 30- October 3, 2004.

Sonntag VKH:Management of Craniovertebral Junctions Injuries. American Academy and German Society of Neurosurgery. Personal Reflections of the Cold War. Dresden, Germany. October 4-8, 2004.

Sonntag VKH: Moderator: Intra-Operative Salvage Techniques: Getting out of Trouble in Spinal Surgery. 54th Annual Meeting Congress of Neurological Surgery, San Francisco, October 19-21, 2004.

Sonntag VKH: A Lifetime of Experience, A Future of Possibilities: Surgical Management of Cervical Disk Disease: From No Fusion to Fusion and Back Again. 54th Annual Meeting Congress of Neurological Surgery, San Francisco, October 19-21, 2004.

Sonntag VKH: Surgical Indications. Spine Focus Meeting. Chicago, Ill. November 19-20, 2004.

Sonntag VKH: ISOC-3D Localization: Advanced Techniques and Technology in Brain and Spine Surgery Course, December 3-5, 2004 New York City.

Sonntag VKH: Advances in Disc Replacement: Advanced Techniques and Technology in Brain and Spine Surgery Course, December 3-5, 2004 New York City.

Presentations for 2003 (30)

Sonntag VKH (Visiting Professor): Neurosurgery Grand Rounds "Cervical Instrumentation". Albany Medical Center, Albany New York, February 5-6, 2003.

Sonntag VKH (Invited Speaker): Diagnosis and Management of Subaxial Cervical Trauma. Cedars-Sinai Medical Center, Palm Springs, California, March 2, 2003.

Sonntag VKH: Advances in Cervical Spine Reconstruction. 29th Annual Symposium: Breakthroughs in Neurosurgery. Barrow Neurological Institute, Phoenix, Arizona. February 28-March 2, 2003.

Sonntag VKH: Primary Tumors of the Vertebral Axis. 29th Annual Symposium: Breakthroughs in Neurosurgery. Barrow Neurological Institute, Phoenix, Arizona. February 28-March 2, 2003.

Sonntag VKH: Instrumentation of the Cervical Spine. Texas Association of Neurological Surgeons 2003 Annual Scientific Meeting. San Antonio, Texas. April 3-4, 2003.

Sonntag VKH: MOC: Where Are We Now? Texas Association of Neurological Surgeons 2003 Annual Scientific Meeting. San Antonio, Texas. April 3-4, 2003.

Sonntag VKH: Primary Tumors of the Vertebral Axis. Texas Association of Neurological Surgeons 2003 Annual Scientific Meeting. San Antonio, Texas. April 3-4, 2003.

Sonntag VKH: (Moderator): Complications in Complex Spinal Surgery: Lessons Learned. American Association of Neurological Surgeons, San Diego, California, April 26- May 1, 2003.

Sonntag VKH: Point-Counter-Point Session: ALIF/PLIF Augmentation of Fusion. American Association of Neurological Surgeons, San Diego, California, April 26- May 1, 2003.

Sonntag VKH: (Panelist): Contemporary Treatment Option of Cervical Disc Disease. American Association of Neurological Surgeons, San Diego, California, April 26- May 1, 2003.

Sonntag VKH: Anterior and Posterior Approaches and Stabilization of the Occipito-Cervical Junction. 54th Annual Meeting of the German Society of Neurosurgery Saarbrucken, Germany May 25-28, 2003.

Sonntag VKH: DI 02 Spinal Instrumentation 2 – Jury to the Best Oral Presentation in Spinal Neurosurgery. 54th Annual Meeting of the German Society of Neurosurgery Saarbrucken, Germany May 25-28, 2003.

Sonntag VKH: (Visiting Professor) Leading the Future of Spine Surgery. University of Illinois College of Medicine at Peoria. June 26-27, 2003.

Sonntag VKH: (Visiting Professor) Decision Making in Degenerative Spine Disease. University of Illinois College of Medicine at Peoria. June 26-27, 2003.

Sonntag VKH: Multilevel Discectomy and Fusion for Treatment of Segmental Cervical Spondylosis. 1st Combined Kasdon/Aequanimitas Annual Meeting, San Diego, California, July 10-13, 2003.

Sonntag VKH: DI 03 Spinal Instrumentation 3 – Chair & Jury of the Best Oral Presentation in Spinal Neurosurgery. 54th Annual Meeting of the German Society of Neurosurgery Saarbrucken, Germany May 25-28, 2003.

Sonntag VKH: Grand Rounds. Maintenance of Certification. Barrow Neurological Institute. Phoenix, Arizona, June 20, 2003.

Sonntag VKH: Biomechanical Comparison of Cervical Spine Fixation Using Transpedicular Screw/Plates, Lateral Mass Screwz/plates, or Anterior Screws/Plates. 56th Annual Meeting of the Neurosurgical Society of America. Sunriver, Oregon, June 8-11, 2003.

Sonntag VKH: Craniovertebral Fixation Techniques. XVII Mexican Congress of Neurological Surgery. Monterrey, Mexico. July 20-22, 2003.

Sonntag VKH: Lumbar Disc Surgery Instrumentation. XVII Mexican Congress of Neurological Surgery. Monterrey, Mexico. July 20-22, 2003.

Sonntag VKH: Techniques for Anterior Fixation. XVII Mexican Congress of Neurological Surgery. Monterrey, Mexico. July 20-22, 2003.

Sonntag VKH: Cervical Spine Reconstruction. XVII Mexican Congress of Neurological Surgery. Monterrey, Mexico. July 20-22, 2003.

Sonntag VKH: (Visiting Professor) Bernard Post, M.D. Endowed Memorial Lecture. Mount Sinai Medical Center, New York City, New York. September 2-3, 2003.

Sonntag VKH: Maintenance of Competency: A Fundamental Component of Contemporary Neurosurgical Practice. 53rd Annual Meeting Congress of Neurological Surgeons, Denver, Colorado. October 18-23, 2003.

Sonntag VKH: Point: Posterolateral Transverse Process Fusion. 65th Annual Meeting of the American Academy of Neurological Surgery. Williamsburg, Virginia October 29-November 1, 2003.

Sonntag VKH: History and Current Instrumentation of the Cervical Spine. 14th Annual Colorado Spine Symposium. Golden, Colorado. November 7, 2003.

Sonntag VKH: Primary Tumors of the Vertebral Axis. 14th Annual Colorado Spine Symposium. Golden, Colorado. November 7, 2003.

Sonntag VKH: (Visiting Professor): Leading the Future of Spinal Surgery. 2003 Charles Drake Professor, London, Ontario/ December 15-17, 2003.

Sonntag VKH: (Visiting Professor): Young Neurosurgeons. 2003 Charles Drake Professor, London, Ontario/ December 15-17, 2003.

Hott JS, Sonntag VKH, Papadopoulos SM: Intraoperative ISO-C C-arm Navigation in Cervical Spinal Surgery: Review of First 20 Cases. 30th Annual Cervical Spine Research Society Meeting. Scottsdale, Arizona, December 11-13, 2003.

Presentations for 2002 (31)

Sonntag VKH (Visiting Professor): The Campbell Lecture – “Decision Making and Technical Consideration for Cervical Disc Disease. Indiana University Medical Center, Indianapolis, Indiana, January 10-13, 2002.

Sonntag VKH (Visiting Professor): Cervical Spine Reconstruction. Brigham’s Women’s Hospital, Boston, Massachusetts February 13, 2002.

Sonntag VKH (Visiting Professor): Spinal Arthrodesis in the Pediatric Population, Boston, Massachusetts, February 13, 2002.

Baskin DS, Ryan PG, Westmark RM, Lynch JJ, Bartolomei J, Theodore N, Sonntag VKH: ACDFP with Cornerstone-SR (Allograft and Plate: rhBMP-2 vs. Autograft). American Association of Neurological Surgeons and Congress of Neurological Surgeons 18th Annual Meeting Orlando, Florida, February 27-March 2, 2002.

Lynch JJ, Crawford NR, Chamberlain RH, Bartolomei JC, Sonntag VKH: Biomechanics of Lateral Mass/Pedicle Screw Fixation of C1-C2. American Association of Neurological Surgeons and Congress of Neurological Surgeons 18th Annual Meeting Orlando, Florida, February 27-March 2, 2002.

Theodore N, Potocnjak M, Kacobsen W, Drabier J, Crawford NR, Sonntag VKH: Use of 2-Octyl-cyanacrylate for Wound Closure in Spinal Surgery. American Association of Neurological Surgeons and Congress of Neurological Surgeons 18th Annual Meeting Orlando, Florida, February 27-March 2, 2002.

Sonntag VKH: Arthrodesis of C1-C2 past, Present and Future. 28th Annual Barrow Symposium, Phoenix, Arizona, March 1, 2002

Sonntag VKH: Reconstruction of the Cervical Spine. 28th Annual Barrow Symposium Phoenix, Arizona, March 2, 2002.

Sonntag VKH (Visiting Professor): Complex Cervical Spine Reconstruction. St. Louis University Medical School Division of Neurosurgery. St. Louis, Missouri, March 27-28, 2002.

Sonntag VKH (Visiting Professor): Art of Mentoring. Saint Louis University, Alpha Omega Alpha Honor Medical Society, St. Louis, Missouri. March 27-28, 2002.

Lynch JJ, Crawford NR, Chamberlain RH, Bartolomei JC,, Sonntag VKH: Biomechanics of Lateral Mass/Pedicle Screw Fixation. American Association of Neurological Surgeons 2002 Annual Meeting, Chicago, Illinois, April 6-11, 2002,.

Sonntag, VKH (Panelist): Complications in Complex Spinal Surgery: Lessons Learned: American Association of Neurological Surgeons 2002 Annual Meeting, Chicago, Illinois, April 6-11, 2002.

Sonntag VKH (Moderator): Aberrant Neuronal Migration In Hydrocephalus American Association of Neurological Surgeons 2002 Annual Meeting Chicago, Illinois, April 6-11, 2002.

Sonntag VKH (Moderator): Los Grade Gliomas of Childhood: Impact of Surgical Resection. A Report from the Children's Oncology Group. American Association of Neurological Surgeons 2002 Annual Meeting, Chicago, Illinois, April 6-11, 2002.

Sonntag VKH (Discussant): Molecular Mechanisms of Neural Degeneration in Human Cervical Spondylotic Myelopathy. American Association of Neurological Surgeons 2002 Annual Meeting, Chicago, Illinois, April 6-11, 2002.

Sonntag VKH (Discussant): Molecular Mechanisms of Neural Degeneration in Human Cervical Spondylotic Myelopathy. American Association of Neurological Surgeons 2002 Annual Meeting, Chicago, Illinois, April 6-11, 2002.

Bartolomei JC, Das K, Crawford NR, Chamberlain R, Park SC, Lynch JJ, Dickman CA, Sonntag VKH: Cervical Pedicle Screws/Plates or Lateral Mass Screws/Plates Combined with Anterior Plating: A Biomechanical In Vitro Study. American Association of Neurological Surgeons 2002 Annual Meeting, Chicago, Illinois, April 6-11, 2002.

Sonntag VKH (Visiting Professor): Decision-Making in Degenerative Cervical Spine Surgery. Cornell University, New York, New York, April 24-25, 2002.

Sonntag VKH: Decision-Making in Degenerative Cervical Spine Surgery, 2nd Annual Resident Instructional Course, Cervical Spine Study Group. San Antonio, Texas, May 3-4, 2002.

Sonntag VKH (Moderator): Patient Selection "Anterior Cervical", 2nd Annual Resident Instructional Course, Cervical Spine Study Group. San Antonio, Texas, May 3-4, 2002.

Sonntag VKH (Visiting Professor): 22nd Frank H. Mayfield Lecturer. Complex Cervical Spine Reconstruction University of Cincinnati Medical Center. Cincinnati, Ohio, May 31-June 1, 2002.

Sonntag VKH (Visiting Professor): Decision-Making and Techniques in Degenerative Cervical Spine Surgery. Washington University School of Medicine. Missouri, August 13-14, 2002.

Sonntag VKH: Masters of Neurosurgery “Complex Cervical Spine Reconstruction”. Congress of Neurological Surgeons. Philadelphia, Pennsylvania, September 21-26, 2002.

Sonntag VKH: Honored Guest Lecture “Discovery of the Spine Specialist: Instrumentation for the Cervical Spine”. Congress of Neurological Surgeons. Philadelphia, Pennsylvania, September 21-26, 2002.

Sonntag VKH: Honored Guest Lecture “Leading the Future of Spine Surgery”. Congress of Neurological Surgeons. Philadelphia, Pennsylvania, September 21-26, 2002.

Sonntag VKH: Honored Guest Lecture “The Neurosurgery as Mentor and Student”. Congress of Neurological Surgeons. Philadelphia, Pennsylvania, September 21-26, 2002.

Sonntag VKH: Craniovertebral Fixation. International Reunion of Spinal Neurosurgery and The Mexican Society of Neurosurgeons. Mexico City, Mexico. October 10-22, 2002.

Sonntag VKH: Strategies for the Surgery in Degenerative Cervical Spine. International Reunion of Spinal Neurosurgery and The Mexican Society of Neurosurgeons. Mexico City, Mexico. October 10-22, 2002.

Sonntag VKH (Moderator): Concurrent Focused Review Session 2 “Lumbar Fusion Techniques and Outcomes. North American Spine Society, October 28-November 2, 2002.

Kim LJ, ReKate HL, Klopfenstein JD, Sonntag VKH: Treatment of Basilar Invagination in the Pediatric Population Using Cervical Reduction and Posterior Occipital-Cervical Fusion. 31st Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery. Scottsdale, Arizona. December 4-7, 2002.

Sonntag VKH: Raimondi Lecture “Assessment of Competence in Neurosurgery”. 31st Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery. Scottsdale, Arizona. December 4-7, 2002.

Presentations for 2001 (38)

Sonntag VKH (Visiting Professor): Grand Rounds: Future of Spine Surgery. John Hopkins University, Baltimore, Maryland, January 25, 2001.

Sonntag VKH: Management of Infections of the Spine. Barrow Neurological Institute 27th Annual Symposium “Breakthroughs In Neuroscience., Phoenix, Arizona, March 1-2, 2001.

Vishteh AG, Crawford N, Thramann JJ, Chamberlain RH, Park SC, Craig B. Sonntag VKH: Dickman CA: Biomechanics of Anterior versus Posterior Threaded Lumbar Interbody Fusion Cages. 17th Annual Meeting AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Pointe South Mountain Resort, Phoenix, Arizona, February 14-17, 2001.

Duplessis SJ, Hurlbert RJ, Fisher RS, Sonntag VKH: Cerebellar Evoked Potentials for Spinal Cord Monitoring. 17th Annual Meeting AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Pointe South Mountain Resort, Phoenix, Arizona, February 14-17, 2001

Duggal N, Crawford NR, Chamberlain RH, Park SC, Sonntag VKH, Dickman CA 17th Annual Meeting AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Pointe South Mountain Resort, Phoenix, Arizona, February 14-17, 2001.

Sonntag VKH: Anterior approach is superior. 17th Annual Meeting AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Pointe South Mountain Resort, Phoenix, Arizona, February 14-17, 2001

Sonntag VKH: Management of Infections of the Spine: BNI Symposium Phoenix, Arizona. March 1-3, 2001.

Sonntag VKH: Adjacent Level Disease: BNI Symposium Phoenix, Arizona. March 1-3, 2001, Phoenix, Arizona.

Sonntag VKH: Hudson Lecture: Future of Spine Surgery: Southern Neurosurgical Society, Barton Creek Resort, Austin Texas, March 14-17, 2001.

Porter RW, Sonntag VKH: Atlantis Plating System: A constrained and Non constrained System: 2001 AANS annual Meeting, Toronto, Ontario, Canada, April 21-26, 2001.

Sonntag VKH: Anterior Cervical: 1st Annual Resident Instructional Course Pointe Hilton, Phoenix, Arizona. April, 2001.

Sonntag VKH: Anterior Odontoid Fixation: 1st Annual Resident Instructional Course, Phoenix, Arizona, April, 2001.

Sonntag VKH: Primary Tumors of the Vertebral Axis: 2001 Tindall Distinguished Professor, Emory University School of Medicine. Atlanta, Georgia, May 9, 2001.

Sonntag VKH: Decision Making for Degenerative C-spine Disease: 2001 Tindall Distinguished Professor, Emory University School of Medicine, Atlanta, Georgia, May 9, 2001.

Sonntag VKH (Visiting Professor): Primary Bone Tumors of the Vertebral Axis. Oregon Health Sciences University Department of Neurological Surgery. Portland, Oregon, April 5-6, 2001.

Sonntag VKH (Visiting Professor): Primary Tumors of the Vertebral Axis, Future of Spine and Decision Making for Degenerative C-Spine Disease. University School of Medicine, Atlanta, Georgia. May 8-11, 2001.

Sonntag VKH: Surgical Management of Cervical Disc Disease, XI Congreso Venezolano de Neurocirugia, Island of Margarita, Venezuela, May 21-23, 2001.

Sonntag VKH: Management of Atlantoaxial Trauma. XI Congreso Venezolano de Neurocirugia, Island of Margarita, Venezuela, May 21-23, 2001.

Sonntag VKH: Thorascopic Approaches to the Thoracic Spine. XI Congreso Venezolano de Neurocirugia, Island of Margarita, Venezuela, May 21-23, 2001.

Sonntag VKH: Surgical Treatment of Intramedullary Spinal Cord Tumors. XI Congreso Venezolano de Neurocirugia, Island of Margarita, Venezuela, May 21-23, 2001.

Sonntag VKH: Presentation of Oral Boards, American Board of Neurological Surgeons. Savannah, Georgia, May 28- June 1, 2001.

Bartolomei JC, Sonntag VKH: Fusion Success Rates of Six or More Contact Surfaces following Three or ore Levels Anterior Cervical Discectomy and Corpectomy. 54th Annual Meeting of the Neurosurgical Society of America. Amelia Island, Florida, June 6-9, 2001.

Sonntag VKH (Visiting Professor): Primary Bone Tumors, University of Arkansas College of Medicine, Department of Neurosurgery. Little Rock, Arkansas, June 22-23, 2001.

Sonntag VKH: Conventional Microdisectomy (advantages vs new techniques). Congreso Mexicano de Cirugia Neurologica , Puerta Vallarta, Mexico, July 23-29, 2001.

Sonntag VKH: Compressive Cervical Radiculopathy (clinical & treatment). Congreso Mexicano de Cirugia Neurologica, Puerta Vallarta, Mexico, July 23-29, 2001.

Sonntag VKH: Treatment of "Failed Back Surgery." Congreso Mexicano de Cirugia Neurologica Puerta Vallarta, Mexico, July 23-29, 2001

Sonntag VKH: Cervical Radiculopathy: The role of Fusion, Plates & Cages. 12th World Congress of Neurosurgery, Sydney, Australia, September 16-10, 2001.

Sonntag VKH: Minimally Invasive Approaches to the Thoracic Spine. 12th World Congress of Neurosurgery, Sydney, Australia, September 16-10, 2001.

Sonntag VKH: Spinal Fusion: Cage, Screw or Plate. 12th World Congress of Neurosurgery, Sydney, Australia, September 16-10, 2001.

Sonntag VKH: Spondylolisthesis. 12th World Congress of Neurosurgery, Sydney, Australia, September 16-10, 2001

Sonntag VKH: Cervical Reconstruction: Congress of Neurological Surgeons 51st Annual Meeting, San Diego, California, September 29-October 4, 2001.

Sonntag VKH: Revelations on Scoliosis and Deformity Surgery: Congress of Neurological Surgeons 51st Annual Meeting, San Diego, California, September 29-October 4, 2001.

Sonntag VKH: Odontoid Fractures: Surgical Options: Congress of Neurological Surgeons 51st Annual Meeting, San Diego, California, September 29-October 4, 2001.

Sonntag VKH: Operative Colloquium: Masters of Neurological Surgery: Congress of Neurological Surgeons 51st Annual Meeting, San Diego, California, September 29-October 4, 2001.

Sonntag VKH: (Presidential Address) Athena, Aesculapius and beyond: the art of mentoring. 2001 North American Spine Society Presidential Address. North American Spine Society 16th Annual Meeting, Seattle, Washington, October 31-Nov. 3, 2001

Sonntag VKH: Use of 2-Octyleyanoacrylate for Wound Closure in Spinal Surgery. North American Spine Society 16th Annual Meeting, Seattle, Washington, October 31-Nov. 3, 2001.

Sonntag VKH: ACDFP with Cornerstone-SR allograft and plate: rhBMP-2 vs. Autograft. North American Spine Society 16th Annual Meeting, Seattle, Washington, October 31-Nov. 3, 2001.

Huag WC, Porter RW, Detwiler P, Sonntag VKH: Floating Lumbar Fusion: The American Academy of Neurological Surgery 63rd Annual Meeting, Palm Beach, Florida, November 14-17, 2001.

Presentations for 2000 (45)

Sonntag VKH: Management of Cervical Myelopathy. University of Wisconsin, Visiting Professor. Madison, Wisconsin, January 7, 2000.

Sonntag VKH (Visiting Professor): Pediatric Spinal Arthrodesis University of Wisconsin, Madison, Wisconsin, January 7, 2000.

Sonntag VKH: Live Cervical Surgery, Doha, Qatar. January 29-February 3, 2000.

Sonntag VKH: Indications for Fusion for the Cervical Spine – Presentation. AANS and CNS 16th Annual Meeting Section on Disorders of the Spine and Peripheral Nerves, Palm Springs, California, February 23-26, 2000.

Sonntag VKH: Atlantis: New Technology in Anterior Cervical Plating Procedures – Talk. AANS and CNS 16th Annual Meeting Section on Disorders of the Spine and Peripheral Nerves, Palm Springs, California, February 23-26, 2000.

Sonntag VKH: Management of Spine Tumors, 26th Annual BNI Symposium Recent Advances in Neurosurgery. Phoenix, Arizona, March 2-4, 2000.

Sonntag VKH: Live Surgery-Occipital Cervical Fusion, 26th Annual BNI Symposium Recent Advances in Neurosurgery, Phoenix, Arizona, March 2-4, 2000.

Sonntag VKH: Early Surgery for Spinal Cord Injury, 26th Annual BNI Symposium Recent Advances in Neurosurgery. Phoenix, Arizona, March 2-4, 2000.

Sonntag VKH: Occipitocervical Fusion. North American Skull Base Society, Scottsdale, Arizona, March 14-20, 2000.

Sonntag VKH: Cervical Spine Instability: Instrumentation and other Methods of Management. AANS 68th Annual Meeting, San Francisco, California, April 8-13, 2000.

Sonntag VKH: Circumferential Approaches for the Correction of Occipitocervical and Subaxial Deformity. AANS 68th Annual Meeting, San Francisco, California, April 8-13, 2000.

Sonntag VKH: Management of Traumatic Cervical Spine Instability. AANS 68th Annual Meeting, San Francisco, California, April 8-13, 2000.

Sonntag VKH (Moderator): AANS 68th Annual Meeting, San Francisco, California, April 8-13, 2000.

Sonntag VKH: Subspecialization: Private versus Academic Practice. AANS 68th Annual Meeting, San Francisco, California, April 8-13, 2000.

Sonntag VKH: Embolization, Ligation, and Cardiac Arrest: The Varied History of the Treatment of Carotid-Cavernous Fistulae. AANS 68th Annual Meeting, San Francisco, California, April 8-13, 2000.

Sonntag VKH (Panelist): Complications in Complex Spinal Surgery: Lessons Learned AANS 68th Annual Meeting, San Francisco, California, April 8-13, 2000.

Sonntag VKH (Discussant): Circumferential Approaches for the Correction of Occipitocervical and Subaxial Deformity, David Cahill. AANS 68th Annual Meeting, San Francisco, California, April 8-13, 2000.

Sonntag VKH (Moderator): Analysis of Aqueductal CSF Flow after Endoscopic Aqueductoplasty with Dynamic Phase-Contrast MR Imaging. AANS 68th Annual Meeting, San Francisco, California, April 8-13, 2000.

Sonntag VKH: Indications for Endoscopic Spinal Surgery, Millennium Masterclass The University College London Hospital, Queen Square, London, England, May 11, 2000.

Sonntag VKH: Demonstration and dissection: Endoscopic spinal surgery, Thoracic Disectomy. The University College London Hospital, Queen Square, London, England, May 11, 2000.

Sonntag VKH (Visiting Professor): Arthrodesis of the Spine in the Pediatric Population. UCLA, Los Angeles, California, May 24, 2000.

Sonntag VKH (Visiting Professor): Treatment of Spinal Disorders in the New Millennium. UCLA, Los Angeles, California, May 24, 2000.

Sonntag VKH: The Nuts and Bolts and Spurs for Spinal Surgery, BNI Education Day, Phoenix, Arizona, June 2, 2000.

Sonntag VKH: Management of Cervical Spine Instability and Discussion. XXIX Latin-American Congress of Neurosurgery. Ceara, Brazil, June 8-15, 2000.

Sonntag VKH: Management of Thoracic and Lumbar Instability and Discussion. XXIX Latin-American Congress of Neurosurgery. Ceara, Brazil, June 8-15, 2000.

Sonntag VKH: Supervision of the Practical Course on Cervical Spine Stabilization. XXIX Latin-American Congress of Neurosurgery, Ceara, Brazil, June 8-15, 2000.

Sonntag VKH: Supervision of the Practical Course on Thoracic and Lumbar Spine Stabilization. XXIX Latin-American Congress of Neurosurgery, Ceara, Brazil, June 8-15, 2000.

Sonntag VKH: Surgical Treatment of Intramedullary Spinal Cord Tumors. XXIX Latin-American Congress of Neurosurgery. Ceara, Brazil, June 8-15, 2000.

Sonntag VKH: Management of Atlantoaxial Trauma. XXIX Latin-American Congress of Neurosurgery. Ceara, Brazil, June 8-15, 2000.

Sonntag VKH (Director): Practical Clinics on Spinal Instrumentation: XXIX Latin American Congress of Neurosurgery, Ceara, Brazil, June 11th-16th, 2000.

Sonntag VKH (Director): Surgical Treatment of Intramedullary Spinal Cord Tumors: XXIX Latin American Congress of Neurosurgery, Ceara, Brazil, June 11th-16th, 2000.

Sonntag VKH (Director): Management Atlantoaxial Trauma: XXIX Latin American Congress of Neurosurgery, Ceara, Brazil, June 11th-16th, 2000.

Sonntag VKH: Spinal Disease in Arizona. Kasdon Travel Club Scientific Program, Fresno, California, August 20-24, 2000.

Sonntag VKH: Indications for Anterior Cervical Plating: World Spine One, Berlin Germany. August 27–September 1, 2000.

Sonntag VKH: Primary tumors of the Vertebral Axis. World Spine One, Berlin Germany. August 27–September 1, 2000.

Sonntag VKH (Moderator): Current Surgical Options for Lumbar Discectomy: Comparison of Results. Meeting 50th Anniversary Special Congress of Neurological Surgeons Annual Meeting, San Antonio, Texas, September 23-28, 2000.

Sonntag VKH: Decision-Making in Degenerative Cervical Spine Surgery. Congress of Neurological Surgeons Annual Meeting 50th Anniversary Special, San Antonio, Texas, September 23-28, 2000.

Sonntag VKH: Single-Level Cervical Disk Disease: Optimal Surgical Management. Congress of Neurological Surgeons Annual Meeting 50th Anniversary Special, San Antonio, Texas, September 23-28, 2000.

Sonntag VKH (Moderator): Current Surgical Options for Lumbar Discectomy: Comparison of Results. Congress of Neurological Surgeons Annual Meeting 50th Anniversary Celebration, San Antonio, Texas, September 23-28, 2000,.

Sonntag VKH: Complications of Lumbar Disc Surgery. Congress of Neurological Surgeons Annual Meeting 50th Anniversary Celebration, San Antonio, Texas, September 23-28, 2000,

Sonntag VKH: Decision Making in Degenerative Cervical Spine Surgery. Congress of Neurological Surgeons Annual Meeting 50th Anniversary Celebration, San Antonio, Texas, September 23-28, 2000.

Sonntag VKH: Single-Level Cervical Disc Disease: Optimal Surgical Management. Congress of Neurological Surgeons Annual Meeting 50th Anniversary Celebration, San Antonio Texas, September 23-28, 2000.

Dumont A, Theodore N, Sonntag VKH, Hurlbert RJ: Efficacy of an Analgesic Epidural Paste Following Lumbar Decompressive Surgery: Long-Term Follow-up of a Prospective Randomized Double Blind Controlled Trail. Congress of Neurological Surgeons Annual Meeting 50th Anniversary Celebration, San Antonio, Texas, September 23-28, 2000.

Sonntag VKH: Prospective Analysis of Preoperative Helical CT Angiography for C1-2 Transarticular Screw Placement: A New Technique. American Academy of Neurological Surgery 62nd Annual Meeting, Colorado Springs, Colorado, October 11-14, 2000.

Sonntag VKH: The Nuts and Bolts and Spurs for Spinal Surgery. ARCS, Phoenix, Arizona, October 23, 2000.

Presentations for 1999 (55)

Sonntag VKH (Visiting Professor): Spinal Instrumentation in a Pediatric Population. NYU Medical Center, New York, New York, January, 1999.

Sonntag VKH: Management of Spinal Cord Injury. World Federation of Neurosurgical Societies Education Course, Tegucigalpa, Honduras, February 2, 1999.

Choux M, Raja IA, Sonntag VKH: Neurotrauma and Public Health. World Federation of Neurosurgical Societies Education Course, Tegucigalpa, Honduras, February 2, 1999.

Sonntag VKH: Cervical Instrumentation. World Federation of Neurosurgical Societies Education Course, Tegucigalpa, Honduras, February 3, 1999.

Sonntag VKH: Thoraco-lumbar Instrumentation. World Federation of Neurosurgical Societies Education Course, Tegucigalpa, Honduras, February 3, 1999.

Sonntag VKH: How I do it: Cervical Corpectomy. World Federation of Neurosurgical Societies Education Course, Tegucigalpa, Honduras, February 3, 1999.

Sonntag VKH: Overview: Autograft Cervical Fusion (Disc, Corpectomies, with and without Plates): 15th Annual Meeting Section of Disorders of the Spine and Peripheral Nerves of AANS and CNS. Lake Buena Vista, Florida, February 10, 1999.

Sonntag VKH: When Is Fusion Indicated with Posterior Decompression? 15th Annual Meeting Section of Disorders of the Spine and Peripheral Nerves of AANS and CNS. Lake Buena Vista, Florida, February 11, 1999.

Guest J, Eleraky M, Apostolides PJ, Karahalios D, Dickman CA, Sonntag VKH: 15th Annual Meeting Section of Disorders of the Spine and Peripheral Nerves of AANS and CNS. Lake Buena Vista, Florida, February 11, 1999.

Theodore N, Hurlbert J, Drabier J, Magwood A, Sonntag VKH: 15th Annual Meeting Section of Disorders of the Spine and Peripheral Nerves of AANS and CNS. Lake Buena Vista, Florida, February 11, 1999.

Fehlings M, Branch C, Geisler F, Haid R, Johnson WA, Kalfas I, Paramore C, Rodts G, Sonntag VKH, Traynelis W, Winking H,: Clinical and Radiological Evaluation of the Codman Anterior

Cervical Plate: Results of a prospective Multicenter Study with Emphasis on Outcome at Two Years. 15th Annual Meeting Section of Disorders of the Spine and Peripheral Nerves of AANS and CNS. Lake Buena Vista, Florida, February 12, 1999.

Crawford N, Eleraky M, Melton S, Sonntag VKH, Dickman CA: Comparison of Occipitocervical Fixation Using C1 Wiring or C1-C2 Transarticular Screws. 15th Annual Meeting Section of Disorders of the Spine and Peripheral Nerves of AANS and CNS. Lake Buena Vista, Florida, February 12, 1999.

Vishteh GA, Crawford NR, Melton S, Ferguson K, Geldmacher T, Dickman CA, Sonntag VKH, Spetzler RF: Stability of the Craniovertebral Junction after Unilateral Occipital Condyle Resection: A Biomechanical Study. 15th Annual Meeting Section of Disorders of the Spine and Peripheral Nerves of AANS and CNS. Lake Buena Vista, Florida February 12, 1999.

Sonntag VKH: The Good, The Bad and The Ugly: Hardware & Spinal Surgery. 25th Annual Barrow Neurological Institute Symposium, Phoenix, Arizona, March 3, 1999.

Sonntag VKH: Spinal Arthrodesis in the Pediatric Population. 25th Annual Barrow Neurological Institute Symposium. Phoenix, Arizona, March 4, 1999.

Sonntag VKH: Anterior Cervical Corpectomy. 25th Annual Barrow Neurological Institute Symposium. Phoenix, Arizona, March 5, 1999.

Sonntag VKH: Anterior Cervical Plates: Constrained VS Constrained. 25th Annual Barrow Neurological Institute Symposium, Phoenix, Arizona, March 6, 1999.

Sonntag VKH: Future aspects of spinal surgery. The Annual Meeting of the Egyptian Society of Neurological Surgeons, Cairo Egypt, March 8-12, 1999.

Sonntag VKH: Anterior cervical plating. The Annual Meeting of the Egyptian Society of Neurological Surgeons, Cairo Egypt, March 8-12, 1999.

Sonntag VKH: C1-C2 fixation. The Annual Meeting of the Egyptian Society of Neurological Surgeons, Cairo Egypt. March 8-12, 1999.

Sonntag VKH: Complications in Lumbosacral Fixation. Current Techniques in Lumbosacral Fixation presented by Sofamor Danek, Phoenix, Arizona March 26, 1999.

Sonntag VKH: Vascular/Ureteral Injury. Current Techniques in Lumbosacral Fixation presented by Sofamor Danek, Phoenix, Arizona March 26, 1999.

Eleraky MA, Guest J, Apostolides PJ, Dickman CA, Sonntag VKH: Traumatic central cord syndrome. 52nd Annual Meeting of the Neurosurgical Society of America, Scottsdale, Arizona, March 28-31, 1999.

Sonntag VKH (Visiting Professor): Anterior Cervical Plating., Henderson Lecture, University of Maryland School of Medicine, Baltimore, Maryland, April 7, 1999.

Sonntag VKH (Visiting Professor): Thoracic & Lumbar Instrumentation., UCI Medical Center, Los Angeles, California, May 5, 1999.

Sonntag VKH: Cervical Spine Instability: Instrumentation and Other Methods of Management Practical Clinic, Director. 67th Annual Meeting of the American Association of Neurological Surgeons, New Orleans, Louisiana, April 24-29, 1999.

Sonntag VKH (Discussant): Paper #743 Atlanto-Occipital Dislocation: Diagnosis and Management in 27 Patients. 67th Annual Meeting of the American Association of Neurological Surgeons, New Orleans, Louisiana, April 24-29, 1999.

Sonntag VKH (Moderator): Consultant's Corner Spine: Spine. 67th Annual Meeting of the American Association of Neurological Surgeons, New Orleans, Louisiana, April 24-29, 1999.

Sonntag VKH (Moderator): Management of Traumatic C1-C2 Instabilities. 67th Annual Meeting of the American Association of Neurological Surgeons, New Orleans, Louisiana, April 24-29, 1999.

Sonntag VKH (Moderator): Growth-Regulated Oncogene in Oligodendrogliomas: Constitutive Activation of a Proliferative Pathway. 67th Annual Meeting of the American Association of Neurological Surgeons, New Orleans, Louisiana, April 24-29, 1999.

Theodore N, Apostolides PJ, Karahalios DG, Crawford N, Chamberlain R, Dickman CA, ReKate HL, Sonntag VKH: Occipitocervical Fusion in a Pediatric Population: Long-Term Follow-up and Detailed Osteometric Analysis. AANS Rocky Mountain Neurosurgical Society, Inc. 34th Annual Meeting, Coeur d'Alene, Idaho, June 20-24, 1999.

Porter RW, Eleraky M, PJ, Detwiler PW, Apostolides PW, Han P, Sonntag VKH: Benign and Malignant Tumors of the Vertebral Column. AANS Rocky Mountain Neurosurgical Society, Inc. 34th Annual Meeting, Coeur d'Alene, Idaho, June 20-24, 1999.

Porter RW, Eleraky M, Apostolides PJ, Detwiler PW, Sonntag VKH: Traumatic Central Cord Syndrome: Results of Surgical Management. AANS Rocky Mountain Neurosurgical Society, Inc. 34th Annual Meeting, Coeur d'Alene, Idaho, June 20-24, 1999.

Sonntag VKH, Broc-Haro G, May D, Mendoza L: Pre-Congress Course, Spine Instrumentation Theoretic and practical course. XV Mexican Congress of Neurological Surgery; Cancun, Mexico July 25-30, 1999.

Fessler R, Sonntag VKH, Mendoza L: Breakfast Seminar, Lumbar Instability. XV Mexican Congress of Neurological Surgery; Cancun, Mexico July 25-30, 1999.

Sonntag VKH: Surgical Treatment of the Lumbar Spine instability. XV Mexican Congress of Neurological Surgery; Cancun, Mexico July 25-30, 1999.

Sonntag VKH: Surgical Management of tumors of the thoracic and lumbar spine. XV Mexican Congress of Neurological Surgery; Cancun, Mexico July 25-30, 1999.

Sonntag VKH, Fessler R, Grossgerge E, Peek M: Cervical Spine Instrumentation. XV Mexican Congress of Neurological Surgery; Cancun, Mexico July 25-30, 1999.

Sonntag VKH: Posterior instrumentation of cervical spine. XV Mexican Congress of Neurological Surgery; Cancun, Mexico July 25-30, 1999.

Fessler R, Sonntag VKH, Luque E, Reyes D, Pointillart V: Complications of lumbar disc surgery. XV Mexican Congress of Neurological Surgery; Cancun, Mexico July 25-30, 1999.

Sonntag VKH: The future of spine surgery in the next millennium. 11th European Congress of Neurosurgery, Copenhagen, Denmark, September 19-24, 1999.

Sonntag VKH: Operative stabilization in thoraco-lumbar spine fractures. 11th European Congress of Neurosurgery, Copenhagen, Denmark, September 19-24, 1999.

Vishteh GA, Theodore N, Harrington TR, Baskin JJ, Sonntag VKH: Single and Two- Level Anterior Cervical Discectomy and Arthrodesis, Autograft versus Allograft: Radiographic and Clinical Outcomes. North American Spine Society 14th Annual Meeting Chicago, Illinois, October 20-23, 1999.

Sawin PD, Dickman CA, Crawford NR, Melton S, Bichard W, Sonntag VKH: "Retinoic Acid (Vitamin A) and Recombinant Human Bone Morphogenetic Protein Reverse Dexamethasone-Induced Inhibition of Bone Fusion in an Experimental Model of Posterolateral Lumbar Spinal Arthrodesis. North American Spine Society 14th Annual Meeting Chicago, Illinois, October 20-23, 1999.

Sawin PD, Dickman CA, Crawford NR, Melton S, Bichard W, Sonntag VKH: "Dexamethasone Inhibit Bone Fusion in an Experimental Model of Posterolateral Lumbar Spinal Arthrodesis." North American Spine Society 14th Annual Meeting Chicago, Illinois, October 20-23, 1999.

Vishteh AG, Theodore N, Harrington TRH, Baskin, JJ, Eldin A, Sonntag VKH: Congress of Neurological Surgeons 49th Annual Meeting, Boston, Massachusetts, October 30-November 4, 1999.

Sonntag VKH, Stephen Papadopoulos (Moderator): Point-Counter-Point – To plate or not to plate in a single level anterior discectomy. The American Academy of Neurological Surgery 16th Annual Meeting, November 10-13, 1999.

Sonntag VKH: Anterior plating in lower cervical spine. Colombian Association of Neurological Surgeons. Cartagena, Colombia, December 1-3, 1999.

Sonntag VKH: Upper Cervical Spine trauma. Colombian Association of Neurological Surgeons. Cartagena, Colombia, . December 1-3, 1999.

Sonntag VKH: Transoral odontoidectomy. Colombian Association of Neurological Surgeons. Cartagena, Colombia, December 1-3, 1999.

Sonntag VKH: Anterior cervical discectomy with and without interbody fusion. Colombian Association of Neurological Surgeons, Cartagena, Colombia, December 1-3, 99.

Sonntag VKH: Management of degeneration cervical stenosis. Colombian Association of Neurological Surgeons. Cartagena, Colombia, December 1-3, 1999.

Sonntag VKH: Spinal arthrodesis in a pediatric population. Colombian Association of Neurological Surgeons. Cartagena, Colombia. December 1-3, 1999.

Sonntag VKH: Management of thoracolumbar fracture. Colombian Association of Neurological Surgeons. Cartagena, Colombia, December 1-3, 1999.

Sonntag VKH: Degenerative lumbar spine instability. Colombian Association of Neurological Surgeons. Cartagena, Colombia, December 1-3, 1999.

Presentations for 1998 (45)

Sonntag VKH (Visiting Professor): Surgical Management of Cervical Spine Disease. Grand Rounds Stanford University, Stanford, California, January, 1998.

Sonntag VKH (Guest Speaker): Thoracic & Lumbar Instrumentation. Michigan Association of Neurological Surgeons Winter Meeting. Detroit, Michigan, January, 1998.

Sonntag VKH (Speaker): Surgical Techniques for Exposure of the Thoracic spine. Barrow Neurological Institute Thoracoscopic Workshop Schedule. Phoenix, Arizona, February, 1998.

Sonntag VKH (Speaker): Surgical Techniques: Thoracic Discectomy, Barrow Neurological Institute Thoracoscopic Workshop Schedule, Phoenix, Arizona, February, 1998.

Dickman CA, Sonntag VKH: Posterior C1-C2 Transarticular Screw Fixation for Atlantoaxial Arthrodesis. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. 14th Annual Meeting, Rancho Mirage, California. February 11-14, 1998.

Fehlings M, Branch C, Geisler F, Haid R, Johnston WA, Kalfas I, Paramore C, Sonntag VKH, Taylor W, Traynelis V, Winking H: Clinical and Radiological Evaluation of the Codman Anterior Cervical Plate: Interim One Year Results of a Prospective, Multicenter Study. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. 14th Annual Meeting, Rancho Mirage, California. February 11-14, 1998.

Dickman CA, Rosenthal D, Madalozzo L, Sonntag VKH: Thoracoscopic Microsurgical Excision of Herniated Thoracic Discs. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. 14th Annual Meeting, Rancho Mirage, California. February 11-14, 1998.

Sonntag VKH (Guest Lecturer): Surgical Treatment of Spinal Trauma. The Fourth Annual Charles A. Fager Lecture, Lahey Hitchcock Medical Center, Burlington, Massachusetts. March 3, 1998.

Sonntag VKH (Guest Lecturer): Management of Acute Spinal Cord Injury. The Fourth Annual Charles A. Fager Lecture, Lahey Hitchcock Medical Center, Burlington, Massachusetts, March 3, 1998.

Sonntag VKH: Management of Postoperative Spine Infection, 24th Annual BNI Symposium, Phoenix, Arizona, February 9, 1998.

Sonntag VKH: The Nuts and Bolts and Spurs for Spinal Surgery, 24th Annual BNI Symposium, Phoenix, Arizona, February 9, 1998.

Spetzler RF, Shetter AG, Sonntag VKH, Karahalios D.: Frameless Imaging of the Spine and Head in Neurosurgery, Presentation and Hands on Course, 24th Annual BNI Symposium, Phoenix, Arizona, February 10, 1998.

Sonntag VKH: Recent Advances in the Management of Spinal Cord Injury, 24th Annual BNI Symposium, Phoenix, Arizona, February 11, 1998.

Sonntag VKH: A new Anterior Cervical Plate-Early Clinical Experience, Neurosurgery at Jackson Hole Winter Conference, Jackson Hole, Wyoming, March 14-18, 1998.

Sonntag VKH, Papadopoulos: Cervical Spine Instability: Instrumentation and Other Methods of Management. Practical Clinic #006, AANS 66th Annual Meeting, Philadelphia, Pennsylvania, April 25-30, 1998.

Sonntag VKH (Panelist): Evaluation and Management of Traumatic C1-C2 Fractures/Instability. AANS 66th Annual Meeting, Philadelphia, Pennsylvania, April 25-30, 1998.

Sonntag VKH (Panelist): Consultant Corner: Spine, AANS 66th Annual Meeting, Philadelphia, Pennsylvania, April 25-30, 1998.

Sonntag VKH (Moderator): Management of Rheumatoid and Chronic Instability of the Craniovertebral Junction and Cervical Spine. , AANS 66th Annual Meeting, Philadelphia, Pennsylvania, April 25-30, 1998.

Sonntag VKH: Spinal Instrumentation In Children. Universitaetsklinikum der RWTH Aachen, Aachen, Germany, May, 1998.

Sonntag VKH: Spinal Instrumentation In Children. Freundeskreis Akademischer Neurochirurgen. Zweiter. Konvent, May, 1998.

Sonntag VKH: Moderator for breakout session--Subspecialty training: SPINE. Society of Neurological Surgeons Annual Meeting, St. Louis, Missouri, May 10-12, 1998.

Sonntag VKH: The Nuts, Bolts and Spurs for Spinal Surgery. BNI Education Day, Phoenix, Arizona, June 1, 1998.

Sonntag VKH: Anterior Approach to the Cranial-cervical Junction & Cervical-thoracic Junction. 49th Annual Meeting of the German Society of Neurosurgery, Hanover, Germany, June 12th-16th, 1998.

Sonntag VKH: Thoracic Lumbar Instrumentation. 49th Annual Meeting of The German Society of Neurosurgery, Hanover, Germany, June 12th-16th, 1998.

Sonntag VKH (Visiting Professor): Instrumentation of the Spine in Children. University of Calgary Foothills Hospital, Calgary, Alberta, Canada. June 26, 1998.

Sonntag VKH (Visiting Professor): Advances in Spinal Surgery. Northwestern University, Chicago, Illinois, July 13, 1998.

Sonntag VKH (Visiting Professor): Thoracic Lumbar Instrumentation. UCSF School of Medicine, Department of Neurological Surgery, Dedication of the Harold Rosegay, M.D. Library and Conference Center. San Francisco, California, July 16th, 1998.

Sonntag VKH (Course Moderator): Spinal Instrumentation: Posterior cervical fusion C1-C2. XXVIII Congreso Latinoamericano De Neurocirugia , Santiago De Chile, October 11, 1998.

Sonntag VKH: Instrumentation of High Cervical Spine. XXVIII Congreso Latinoamericano De Neurocirugia Santiago De Chile, October 12, 1998.

Sonntag VKH: Spine Instrumentation, complication in pedicular surgery. XXVIII Congreso Latinoamericano De Neurocirugia, Santiago De Chile, October 15, 1998.

Sonntag VKH: Disk Surgery, Surgical treatment in lumbar disk: "Update." XXVIII Congreso Latinoamericano De Neurocirugia Santiago De Chile, October 11, 1998.

Sonntag VKH: Inflammatory Complications of Disk Surgery. XXVIII Congreso Latinoamericano De Neurocirugia Santiago De Chile, October 15, 1998.

Cagli S, Crawford N, Sonntag VKH, Dickman CA: Biomechanics of Lumbar Cages/Dowels and Pedicle Screws for treating spondylolisthesis. North American Spine Society 13th Annual Meeting, San Francisco, California, October 28-31, 1998.

Theodore N, Hurlbert J, Drabier J, Magwood A, Sonntag VKH: A prospective randomized double-blind controlled trial to evaluate the efficacy of an analgesic epidural paste following lumbar decompressive surgery. North American Spine Society 13th Annual Meeting, San Francisco, California, October 28-31, 1998.

Naderi S, Crawford N, Melton MS, Sonntag VKH, Dickman CA: Biomechanical analysis of cranial settling after transoral odontoidectomy. North American Spine Society 13th Annual Meeting, San Francisco, California, October 28-31, 1998.

Sawin P, Dickman C, Sonntag VKH, Spetzler RF: Predictive value of operative spinal cord monitoring in radical resection of medullary spinal cord tumors. North American Spine Society 13th Annual Meeting, San Francisco, California, October 28-31, 1998.

Sawin P, Dickman C, Sonntag VKH, Spetzler RF: Surgical treatment of medullary spinal cord tumors: outcome analysis of 152 cases. North American Spine Society 13th Annual Meeting, San Francisco, California, October 28-31, 1998.

Sonntag VKH: State of the Art and Future Directions in Spinal Surgery. 75 Years of Neurosurgery in Canada, A symposium of Advances in Neurosurgery and Related Neurosciences. Toronto, Ontario, October 31, 1998.

Sonntag VKH: Spinal Instrumentation: Posterior cervical fusion C1-C2. XXVIII Congreso Latinoamericano De Neurocirugia, Santiago De Chile, October 10-15, 1998.

Sonntag VKH: Instrumentation of high cervical spine. XXVIII Congreso Latinoamericano De Neurocirugia, Santiago De Chile, October 10-15, 1998.

Sonntag VKH: Spine Instrumentation, complication in pedicular surgery. XXVIII Congreso Latinoamericano De Neurocirugia, Santiago De Chile, October 10-15, 1998.

Sonntag VKH: Disk Surgery, Surgical treatment in lumbar disk: Update. XXVIII Congreso Latinoamericano De Neurocirugia, Santiago De Chile, October 10-15, 1998.

Sonntag VKH: Inflammatory Complications of Disk Surgery: XXVIII Congreso Latinoamericano De Neurocirugia, Santiago De Chile, October 10-15, 1998.

Sonntag VKH, Theodore N, Hurlbert J, Drabier J, Magwood A: A Prospective Randomized Doubled-Blind Controlled Trial to Evaluate the Efficacy of an Analgesic Epidural Paste Following Lumbar Decompressive Surgery. American Academy of Neurological Surgery, Santa Barbara California, November 5-7, 1998

Sonntag VKH (Visiting Professor): Thoracolumbar Instrumentation. Louisiana State University School of Medicine, Neurosurgery, New Orleans, Louisiana, December 2-4, 1998.

Presentations for 1997 (37)

Sonntag VKH: Management of Cervical Trauma. The Florida Spine Study Group. Neuroresident Lecture, Tampa, Florida, January 1997.

Sonntag VKH: Thoracolumbar Instrumentation. The Florida Spine Study Group, Tampa, Florida, January 1997.

Sonntag VKH: Levi A, Dickman CA: The Management of Postoperative Infections After Spinal Instrumentation. 13th Annual Meeting of AANS and CNS Joint Section on Disorders of the Spine and Peripheral Nerves, Newport Beach, California, February 1997.

Sonntag VKH, Naderi S, Crawford NR, Dickman CA: Biomechanical Comparison of Atlantoaxial Posterior Wire/Graft/Screw Combinations. 13th Annual Meeting of AANS and CNS Joint Section on Disorders of the Spine and Peripheral Nerves, Newport Beach, California, February, 1997

Sonntag VKH, Levi A, Dickman CA: The Management of Postoperative Infections After Spinal Instrumentation. The Joint Meeting of the Society of British Neurological Surgeons 130th Meeting and the Neurosurgical Society of America., Cambridge, England, April 1997.

Sonntag VKH: Thoracoscopic Spinal Surgery. The Joint Meeting of the Society of British Neurological Surgeons 130th Meeting and the Neurosurgical Society of America. Cambridge, England, April 1997.

Allan D, Levi O, Dickman CA, Sonntag VKH: The Management of Postoperative Infections After Spinal Instrumentation. Joint Meeting of the Rocky Mountain Neurosurgical Society, Inc. and the American Association of Neurological Surgeons 32nd Annual Meeting. Jasper Park Lodge, Canada, June 26-30, 1997.

Dickman CA, Rosenthal D, Madalozzo L, Sonntag VKH: Thoracic Microsurgical Excision of Herniated Thoracic Discs. Joint Meeting of the Rocky Mountain Neurosurgical Society, Inc. and the American Association of Neurological Surgeons 32nd Annual Meeting. Jasper Park Lodge, Canada, June 26-30, 1997.

Sonntag VKH: Stabilization in Acute Spinal Injury. The 49th Annual Meeting of the Scandinavian Neurosurgical Society, Postgraduate Preconference Course in Neurotraumatology. Radisson Scandinavia Hotel Aarhus, June 7, 1997.

Sonntag VKH: Future Aspects of Spinal Surgery. The 49th Annual Meeting of the Scandinavian Neurosurgical Society, Postgraduate Preconference Course in Neurotraumatology. Scandinavia, Aarhus, June 7, 1997.

Sonntag VKH: Stabilization of the Cervical Spine. 11th International Congress of Neurological Surgery, Centennial Perspective. Amsterdam, July 8, 1997.

Sonntag VKH: Cervical Spine Instrumentation. XIV Congreso Mexionno de Oirugia Neurologia Veracruz-Boca Del Rio. Torremar, Veracruz, Mexico, July 19, 1997.

Sonntag VKH: Spine Lesions. XIV Congreso Mexionno de Oirugia Neurologia Veracruze-Boca Del Rio, Veracruz, Mexico, July 22, 1997.

Sonntag VKH: Indications for Anterior Cervical Plating. 11th Annual Korean Spinal Neurosurgery Research Society, Kwangier, Korea, September 5, 1997.

Sonntag VKH: Future Aspects of Spinal Surgery. 11th Annual Korean Spinal Neurosurgery Research Society, Kwangier, Korea. September 6, 1997.

Sonntag VKH: Thoracic Lumbar Instrumentation. Department of Neurosurgery, Yongdong Severance Hospital, Yonsei University College of Medicine, Seoul. Korea. September 8, 1997.

Sonntag VKH: Instrumentation of the Upper Cervical Spine. Department of Neurosurgery, Pusan University, Pusan Korea. September 9, 1997.

Sonntag VKH, Dickman CA: Posterior C1-C2 Transarticular Screw Fixation for Atlantoaxial Arthrodesis. 59th Annual Meeting of the Joint Meeting of AANS and The Canadian Neurosurgical Society, The Rimrock Hotel Banff, Alberta Canada, September 11, 1997.

Dickman CA, Rosenthal J, Johnson P, Erin N, Reidel C, Sonntag VKH, Papadopoulos S, Hurlbert RJ, Karahalios D, Paramore C: Thoracoscopy. 47th Annual Meeting CNS, New Orleans, Louisiana, September 28, 1997.

Sonntag VKH (Moderator): Instrumentation Following Anterior Cervical Fusion. 47th Annual Meeting CNS, New Orleans, Louisiana, September 29, 1997.

Sonntag VKH (Speaker): How I Do It: Cervical Spine. 47th Annual Meeting CNS, New Orleans, Louisiana, September 29, 1997.

Marciano FF, Apostolides PJ, Vishteh AG, Baskin J, Sonntag VKH: Cervical Spine Management in Severe Nonpenetrating Closed Head Injury: A Prospective Study. 47th Annual Meeting CNS, New Orleans, Louisiana, September 28, 1997.

Theodore N, Apostolides PJ, Karahalios D, Dickman CA, Sonntag VKH: Spinal Arthrodesis in a Pediatric Population. 47th Annual Meeting CNS, New Orleans, Louisiana, September 28, 1997.

Apostolides PJ, Karahalios D, Sonntag VKH, Dickman CA, Spetzler RF: Complications of Transoral Odontoidectomy. 47th Annual Meeting CNS, New Orleans, Louisiana, September 28, 1997.

Dickman CA, Rosenthal D, Madalozza L, Sonntag VKH: Thorascopic Microsurgical Excision of Herniated Thoracic Discs. Western Neurosurgical Society 43rd Annual Meeting. Ojai, California, September 1997.

Sonntag VKH (Visiting Professor): Advances in Spinal Surgery. University of Pittsburgh, Pittsburgh, Pennsylvania, October, 1997.

Sonntag VKH (Visiting Professor): Thoracic Lumbar Instrumentation. University of Pittsburgh, Pittsburgh, Pennsylvania, October, 1997.

Sonntag VKH: Re-operation of the Cervical Spine. 3rd Stryker Spinal Invitational Symposium. Berlin, Germany. October, 1997.

Sonntag VKH (Moderator): Scientific Session IV. 3rd Stryker Spinal Invitational Symposium. Berlin, Germany. October, 1997.

Sonntag VKH (Moderator): Complications of Spinal Surgery "Postoperative Spinal Infections." 12th Annual Meeting NASS. New York, New York., October, 1997.

Sonntag VKH (Moderator): Cervical Surgery. 12th Annual Meeting NASS, New York, New York, October, 1997.

Dickman CA, Sonntag VKH: Posterior C1-C2 Transarticular Screw Fixation for Atlantoaxial Arthrodesis. 12th Annual Meeting NASS. New York, New York., October, 1997.

Dickman CA, Rosenthal D, Madalozza L, Sonntag VKH: Thorascopic Microsurgical Excision of Herniated Thoracic Discs. 12th Annual Meeting NASS. New York, New York, October, 1997.

Song GS, Crawford NR, Naderi S, Sonntag VKH, Dickman CA: Biomechanical analysis of posterior atlantoaxial fixation. Korean Neurosurgical Society, Annual Meeting, Seoul, South Korea, October 16-18, 1997.

Sonntag VKH: Treatment of Pathologies in the Transitional Zones: Occiput to C1-C2 and C7-T1. Anterior Column Support of the Spine. Scottsdale, Arizona, November, 1997.

Sonntag VKH: Anterior Cervical Discectomy Without Fusion. Anterior Column Support of the Spine. Scottsdale, Arizona, November, 1997.

Sonntag VKH: Methods of Interbody Fusion of the Spine; New York, New York. December 12, 1997.

Presentations for 1996 (26)

Sonntag VKH, Marciano FF, Stephenson GC, Greene KA, Pappas CTE: Acute Cauda Equina Compression in the Non-human Primate. Effect of Surgical Decompression, American Association of Neurological Surgeons, Telluride, Colorado, June 1996.

Sonntag VKH, Harrington T, Theodore N, Vishteh AG: Cervical Spine Fusion: Allograft vs. Autograft. American Association of Neurological Surgeons, Telluride, Colorado, June 1996.

Sonntag VKH: Transoral Approach and Odontoid Removal, Anterior Surgical Approaches to the Spine. Medical Education and Research Institute, Memphis, Tennessee, August 1996.

Sonntag VKH: Thorascopic Approach. Anterior Surgical Approaches to the Spine. Medical Education and Research Institute, Memphis, Tennessee, August 1996.

Sonntag VKH: Thoracic Disc Diseases. EANS Course on the Spine, Aalborg, Denmark, September 1996.

Sonntag VKH: Spinal Endoscopy. 58th Annual Meeting of the American Academy of Neurological Surgery, Greenbrier, White Sulphur Springs, West Virginia, September 1996.

Sonntag VKH, Fessler R, Papadopoulos J, Johnson P, Riedel C, Paramore C, Hurlbert J, Vrodos N, Ronderos J, Hall P, Sasso R, Karahalios D, Theodore N: Thoracoscopy. 46th Annual Meeting of the Congress of Neurological Surgeons, Montreal, Quebec, September 1996.

Sonntag VKH: "How I do it" - Cervical Spine. 46th Annual Meeting of the Congress of Neurological Surgeons, Montreal, Quebec, September 1996.

Sonntag VKH: Degenerative Lumbar Spine Instability. General Scientific Session II: How the operation is done. 46th Annual Meeting of the Congress of Neurological Surgeons, Montreal, Quebec, October 1996.

Sonntag VKH: A Spinal Fellowship Program: The Phoenix Model. Conference on Neurosurgical Training and Research, EANS Course, Munich, Germany, October 1996.

Sonntag VKH: Surgical Techniques in Thoracic and Lumbar Instrumentation. Conference on Neurosurgical Training and Research, EANS Course, Munich, Germany, October 1996.

Sonntag VKH, Levi A, Dickman CA, Mather J, Li RH, Bichard B, Berens M: The Role of Cultured Schwann Cell Grafts in the Repair of Gaps within the Peripheral Nervous System of Primates. 11th Annual Conference of NASS, Vancouver, B.C., Canada, October 1996.

Sonntag VKH: Surgical Controversies in Spinal Surgery - Anterior Cervical Discectomy without Fusion. 11th Annual Conference of NASS, Vancouver, B.C., Canada, October 1996.

Sonntag VKH, Hurlbert RJ: Anatomic Verification of the Cerebellar Evoked Potential in the Primate: Implications for Intraoperative Monitoring. 11th Annual Conference of NASS, Vancouver, B.C., Canada, October 1996.

Sonntag VKH, Hurlbert RJ, Dickman CA: Long-term Follow-up of C1-2: Transarticular Screw Fixation. 11th Annual Conference of NASS, Vancouver, B.C. Canada, October 1996.

Sonntag VKH: Controversies in Discectomy: Treatment of the Herniated Disc. Lumbar Microdiscectomy: "The Gold Standard". 11th Annual Conference of NASS, Vancouver, B.C., Canada, October, 1996.

Sonntag VKH: Thoracic-Lumbar Instrumentation. Konferans, Hacettepe Universitesi - Hacettepe Kampusu, Ankara, Turkey, November 1996.

Sonntag VKH: Management of Acute Spinal Cord Injury. Konferans, Hacettepe Universitesi - Hacettepe Kampusu, Ankara, Turkey, November 1996.

Sonntag VKH: Transoral Approach to Cervico-Medullary Junction. Konferans, Hacettepe Universitesi - Hacettepe Kampusu, Ankara, Turkey, November 1996.

Sonntag VKH: Comparison of Different Anterior Cervical Plating Systems. Konferans, Hacettepe Universitesi - Hacettepe Kampusu, Ankara, Turkey, November 1996.

Sonntag VKH: Anterior and Posterior Instrumentation of the Thoracic and Lumbar spine. Sociedad de Neurocirugia de la Provincia de Buenos Aires XXXVIII Jornadas de Neurocirugia, Buenos Aires, Argentina, December 1996.

Sonntag VKH: Instrumentation of the Cervical Spine. Sociedad de Neurocirugia de la Provincia de Buenos Aires XXXVIII Jornada de Neurocirugia, Buenos Aires, Argentina, December 1996.

Sonntag VKH: Instrumentation of the Upper Cervical Spine. Sociedad de Neurocirugia de la Provincia de Buenos Aires XXXVIII Jornada de Neurocirugia, Buenos Aires, Argentina, December 1996.

Sonntag VKH: Transoral Approach to the Cervical Spine. Sociedad de Neurocirugia de la Provincia de Buenos Aires XXXVIII Jornada de Neurocirugia, Buenos Aires, Argentina, December 1996.

Sonntag VKH: Management of Thoracolumbar Spine Injuries. Sociedad de Neurocirugia de la Provincia de Buenos Aires XXXVIII Jornada de Neurocirugia, Buenos Aires, Argentina, December 1996.

Sonntag VKH: Management of Cervical Spine Injuries. Sociedad de Neurocirugia de la Provincia de Buenos Aires XXXVIII Jornada de Neurocirugia, Buenos Aires, Argentina, December 1996.

Presentations for 1995 (31)

Sonntag VKH: Cervical Spine Instrumentation. The 1995 Keith Professorship in Neurosurgery. Toronto Hospital, Toronto Western Division, University of Toronto, Toronto, Canada, February 1995.

Sonntag VKH: Transoral Approaches to the Craniocervical Junction. The 1995 Keith Professorship in Neurosurgery. Toronto Hospital, Toronto Western Division, University of Toronto, Toronto, Canada, February 1995.

Sonntag VKH: Management of Cervical Spine Injuries. Speaker of the Royal College of Physicians and Surgeons of Canada. The 1995 Keith Professorship in Neurosurgery. Toronto Hospital, Toronto Western Division, University of Toronto, Toronto, Canada, February 1995.

Sonntag VKH: Clinicopathological Conference. The 1995 Keith Professorship in Neurosurgery. Toronto Hospital, Toronto Western Division, University of Toronto, Toronto, Canada, February 1995.

Sonntag VKH: Management and Timing of Surgery for Spinal Injuries. 62nd Annual Meeting of the American Academy of Orthopaedic Surgeons, February 1995.

Sonntag VKH: Pedicle Screws: The Good, The Bad, and The Ugly. Neurosurgery in Jackson Hole, Teton Village, Wyoming, February 1995.

Sonntag VKH: Treatment of Cervical Myelopathy. 8th Annual Neurosurgery in the Rockies, University of Colorado, Division of Neurosurgery, Vail, Colorado, March 1995.

Sonntag VKH: Pedicle Fixation of the Spine - The Good, The Bad and The Ugly. 8th Annual Neurosurgery in the Rockies, University of Colorado, Division of Neurosurgery, Vail, Colorado, March 1995.

Sonntag VKH: Complications of Cervical Instrumentation. 8th Annual Neurosurgery in the Rockies, University of Colorado, Division of Neurosurgery, Vail, Colorado, March 1995.

Sonntag VKH: Do we need fusion for lumbar spinal disorders? Spine Focus Meeting, Chicago, Illinois, March 1995.

Sonntag VKH, Papadopolous S: Cervical Spine Instability: Instrumentation and Other Methods of Management. 63rd Annual Meeting of the American Association of Neurological Surgeons, Orlando, Florida, April 1995.

Dickman CA, Sonntag VKH: Surgical Management Strategies for Atlantoaxial Non-unions. 63rd Annual Meeting of the American Association of Neurological Surgeons, Orlando, Florida, April 1995.

Sonntag VKH: Management and Timing of Surgery for Spinal Injuries. 63rd Annual Meeting of the American Association of Neurological Surgeons, Orlando, Florida, April 1995.

Paramore CG, Dickman CA, Sonntag VKH: Mechanisms of Caspar Plate Failure. 63rd Annual Meeting of the American Association of Neurological Surgeons, Orlando, Florida, April 1995.

Sonntag VKH: Odontoid Fusion Instrumentation for the Anterior Cervical Approach. Hands-on Workshop in Spine Surgery, Anatomy of the Free University of Berlin, European Congress of Neurosurgery, Berlin, Germany, May 1995.

Sonntag VKH: Stabilization Procedures in Spinal Surgery. Hands-on Workshop In Spine Surgery, Anatomy of the Free University of Berlin, European Congress of Neurosurgery, Berlin, Germany, May 1995.

Sonntag VKH (Visiting Professor): Complications of Cervical Spine Surgery. Georgetown University Medical Center, Washington, D.C., May 1995.

Sonntag VKH (Visiting Professor): Pedicle Screw Fixation: The Good, The Bad and The Ugly. Georgetown University Medical Center, Washington, D.C., May 1995.

Sonntag VKH (Visiting Professor): Acute Management of Spinal Cord Injury. University of Pennsylvania, Philadelphia, Pennsylvania, June 1995.

Sonntag VKH: Fusion for the Treatment of Lumbar Spondylosis. 48th Annual Meeting of the Neurosurgical Society of America, Sea Island, Georgia, June 1995.

Karahalios DG, Dickman CA, Sonntag VKH: Clinical Applications of Thoracoscopic Approaches for Treatment of Spine Pathology. 30th Annual Rocky Mountain Neurosurgical Society Meeting, Sun Valley, Idaho, June 1995.

Broc G, Sonntag VKH, Dickman CA, Vishteh AG: Anterior Thoracolumbar Instrumentation. 30th Annual Rocky Mountain Neurosurgical Society Meeting, Sun Valley, Idaho, June 1995.

Paramore CG, Sonntag VKH: The Anatomic Suitability of the C1-2 Complex for Posterior Transarticular Screw Fixation: A CT Study. 30th Annual Rocky Mountain Neurosurgical Society Meeting, Sun Valley, Idaho, June 1995.

Dickman CA, Foley KT, Sonntag VKH, Smith MM: Cannulated Screws for Odontoid Fixation and Atlantoaxial Transarticular Screw Fixation. 30th Annual Rocky Mountain Neurosurgical Society Meeting, Sun Valley, Idaho, June 1995.

Sonntag VKH: The Anatomic Suitability of the C1-2 Complex for Posterior Transarticular Screw Fixation. 11th Annual Meeting of the Kasdon Neurosurgical Research Forum . Seaside, Florida, July 1995.

Sonntag VKH: Cervical Instrumentation. University of Washington, Seattle, Washington, August 1995.

Sonntag VKH: Thoracic-Lumbar Instrumentation. University of Washington, Seattle, Washington, August 1995.

Sonntag VKH: Conventional Discectomy Techniques: The Gold Standard. General Scientific Session III: Innovations in the Treatment of Lumbar Disc Disease: Current Trends in Management, Congress of Neurological Surgery.

Sonntag VKH: Anterior Cervical Corpectomy with Plating. American College of Surgeons, New Orleans, Louisiana, October 1995.

Broc G, Crawford NR, Dickman CA, Sonntag VKH: Biomechanical Effects of Microsurgical Thoracic Discectomy. North American Spine Society, Washington, D.C., October 1995.

Dickman CA, Sonntag VKH: Surgical Management Strategies for Atlantoaxial Non-unions. North American Spine Society, October 1995.

Presentations for 1994 (58)

Sonntag VKH (Instructor): C1-2 Fixation. 6th Annual Ski Snowbird with the Spine Center, Snowbird, Utah, January 1994.

Sonntag VKH (Instructor): Caspar Plate Application. 6th Annual Ski Snowbird with the Spine Center, Snowbird, Utah, January 1994.

Sonntag VKH: Screw Fixation of C1-2. 6th Annual Ski Snowbird with the Spine Center, Snowbird, Utah, January 1994.

Sonntag VKH: Early Surgical Intervention. 10th Annual Joint Section on Disorders of the Spine and Peripheral Nerves AANS/CNS, Ft. Lauderdale, Florida, February 1994.

Porter R, Lawton MT, Sonntag VKH, Dickman CA: Management of Spinal Epidural Hematomas. 10th Annual Joint Section on Disorders of the Spine and Peripheral Nerves AANS/CNS, Ft. Lauderdale, Florida, February 1994.

Greene KA, Dickman CA, Sonntag VKH: Odontoid Fractures Associated with Transverse Ligament Disruption. 10th Annual Joint Section on Disorders of the Spine and Peripheral Nerves AANS/CNS, Ft. Lauderdale, Florida, February 1994.

Dickman CA, Crawford N, Brantley A, Sonntag VKH, Tominaga T: Morphology and Kinematics of the Baboon's Upper Cervical Spine: A Model of the Atlantoaxial Complex. 10th Annual Joint Section on Disorders of the Spine and Peripheral Nerves AANS/CNS, Ft. Lauderdale, Florida, February 1994.

Knightly JJ, Dickman CA, Ronderos J, Vardiman A, Karahalios D, Crawford N, Sonntag VKH: Unilateral Posterior Atlantoaxial Facet Screw Fixation. 10th Annual Joint Section on Disorders of the Spine and Peripheral Nerves AANS/CNS, Ft. Lauderdale, Florida, February 1994.

Dickman CA, Crawford N, Brantley A, Sonntag VKH: Biomechanical Effects of Transoral Odontoidectomy. 10th Annual Joint Section on Disorders of the Spine and Peripheral Nerves AANS/CNS, Ft. Lauderdale, Florida, February 1994.

Ronderos JF, Knightly JJ, Vardiman AA, Sonntag VKH, Dickman CA: Cervical Spine Stabilization in Rheumatoid Arthritis. 10th Annual Joint Section on Disorders of the Spine and Peripheral Nerves AANS/CNS, Ft. Lauderdale, Florida, February 1994.

Lawton MT, Porter R, Sonntag VKH, Dickman CA: Spinal Epidural Hematomas After Spine Surgery. 10th Annual Joint Section on Disorders of the Spine and Peripheral Nerves AANS/CNS, Ft. Lauderdale, Florida, February 1994.

Knightly JJ, Dickman CA, Vardiman A, Ronderos J, Sonntag VKH: Roller Coaster Induced Hyperflexion Injury: The Domino Effect After Treatment of an Upper Cervical Kyphosis. 10th Annual Joint Section on Disorders of the Spine and Peripheral Nerves AANS/CNS, Ft. Lauderdale, Florida, February 1994.

Knightly JJ, Dickman CA, Vardiman A, Ronderos J, Sonntag VKH: Treatment of Preferences for Type II Odontoid Fractures. 10th Annual Joint Section on Disorders of the Spine and Peripheral Nerves AANS/CNS, Ft. Lauderdale, Florida, February 1994.

Cherny WB, Zerick W, Sonntag VKH: Comparison of Caspar and Synthes Anterior Cervical Plate Fusions in Patients with Long term Follow-up. 10th Annual Joint Section on Disorders of the Spine and Peripheral Nerves AANS/CNS, Ft. Lauderdale, Florida, February 1994.

Ronderos J, Knightly J, Vardiman A, Dickman CA, Sonntag VKH: Pull-out Strength of Tapped Versus Untapped Cortical Screws in the Cervical Spine. 10th Annual Joint Section on Disorders of the Spine and Peripheral Nerves AANS/CNS, Ft. Lauderdale, Florida, February 1994.

Sonntag VKH (Visiting Professor): Surgery of the Upper Cervical Spine. Symposium on Current Treatment of Disorders of the Spine, Little Rock, Arkansas, March 1994.

Sonntag VKH (Visiting Professor): Management of Acute Spinal Cord Injury. Symposium on Current Treatment of Disorders of the Spine, Little Rock, Arkansas, March 1994.

Sonntag VKH: Cervical Instrumentation. 21st Annual Symposium, Recent Advances in Neurology and Neurosurgery, Phoenix, Arizona, March 1994.

Sonntag VKH, Dickman CA: Spine Case Studies: Difficult Cases. 21st Annual Symposium, Recent Advances in Neurology and Neurosurgery, Phoenix, Arizona, March 1994.

Dickman CA, Crawford N, Agu R, Sonntag VKH, Tominaga T: Morphology and Kinematics of the Baboon Upper Cervical Spine: A Model of the Atlantoaxial Complex. 62nd Annual Meeting of AANS, San Diego, California, April 1994.

Klara P, Traynelis V, Sonntag VKH (Panelists): Treatment of Cervical Spine Instability: Diagnosis and Management. 62nd Annual Meeting of AANS, San Diego, California, April 1994.

Sonntag VKH (Moderator): Contemporary Treatment of Spinal Cord Injury. 62nd Annual Meeting of AANS, San Diego, California, April 1994.

Sonntag VKH (Panelist): Instrumentation in Spinal Surgery - What is it good for? When is it mandatory? Which systems are optimal? The Society of Neurological Surgeons 1994 Annual Meeting, Charlottesville, Virginia, April 1994.

Sonntag VKH: Indications for Cervical, Thoracic and Lumbar Instrumentation. Texas Medical Association, Austin, Texas, May 1994.

Sonntag VKH: Complications and Cost of Spinal Instrumentation. Texas Medical Association, Austin, Texas, May 1994.

Golfinos JG, Sonntag VKH, Dickman CA, Spetzler RF: Repair of Vertebral Injury During Anterior Cervical Decompression. 47th Annual Meeting of the Neurosurgical Society of America, Blaine, Washington, May 1994.

Sonntag VKH: The Advance of Spinal Instrumentation. 14th Annual Meeting of the Japanese Congress of Neurological Surgeons, Sendai, Japan, May 1994.

Sonntag VKH: Upper Cervical Spine Stabilization. 14th Annual Meeting of the Japanese Congress of Neurological Surgeons, Sendai, Japan, May 1994.

Sonntag VKH: Pedicle Screw: The Good, The Bad, and The Ugly. Arizona State Society of Radiologic Technologists Annual Meeting, Phoenix, Arizona, June 1994.

Apostolides PJ, Karahalios DG, Dickman CA, Sonntag VKH: Anterior Surgical Arthrodesis of the Cervicothoracic Junction. 29th Annual Meeting of the Rocky Mountain Neurosurgical Society and the American Association of Neurological Surgeons, Aspen, Colorado, June 1994.

Ronderos JF, Knightly JJ, Vardiman AB, Dickman CA, Sonntag VKH: Screw Pull-out Strength in Tapped Versus Untapped Pilot Holes in the Anterior Cervical Spine. 29th Annual Meeting of the Rocky Mountain Neurosurgical Society and the American Association of Neurological Surgeons, Aspen, Colorado, June 1994.

Dickman CA, Crawford N, Brantley A, Sonntag VKH, Cherny WB: Biomechanical Effects of Transoral Odontoidectomy. 29th Annual Meeting of the Rocky Mountain Neurosurgical Society and the American Association of Neurological Surgeons, Aspen, Colorado, June 1994.

Ronderos JF, Cherny WB, Vardiman AB, Sonntag VKH, Dickman CA: Long-term Follow-up of Posterior Lateral Mass Plates in the Cervical Spine. 29th Annual Meeting of the Rocky Mountain Neurosurgical Society and the American Association of Neurological Surgeons, Aspen, Colorado, June 1994.

Vardiman AB, Dickman CA, Sonntag VKH: A Comparison of the Transoral and Anterolateral Retropharyngeal Approaches to the Craniovertebral Junction. 29th Annual Meeting of the Rocky Mountain Neurosurgical Society and the American Association of Neurological Surgeons, Aspen, Colorado, June 1994.

Knightly JJ, Dickman CA, Vardiman A, Ronderos J, Sonntag VKH: Treatment Preferences for Type II Odontoid Fractures. 29th Annual Meeting of the Rocky Mountain Neurosurgical Society and the American Association of Neurological Surgeons, Aspen, Colorado, June 1994.

Sonntag VKH (Keynote Speaker): Cervical Instrumentation. Idaho Neurological Institute Educational Symposium, Boise, Idaho, June 1994.

Sonntag VKH: Transfacet Screw Fixation of C1-2. 2nd International Neurosurgical Summer Conference, Kenya, Africa, August 1994.

Sonntag VKH: Transoral Approach to the Craniocervical Junction. XX Congresso Brasileiro de Neurocirurgia, Brazil, September 1994.

Sonntag VKH: Anterior and Posterior Fixation of the Thoracic and Lumbar Spine. XX Congresso Brasileiro de Neurocirurgia, Brazil, September 1994.

Sonntag VKH: Complications of Spine Instrumentation. XX Congresso Brasileiro de Neurocirurgia, Brazil, September 1994.

Sonntag VKH: Management of Spinal Tumors. XX Congresso Brasileiro de Neurocirurgia, Brazil, September 1994.

Sonntag VKH, Greene KA, Marciano FF, Zimmerman CG, Dickman CA, Drabier J, Hadley MN: Management of Acute Traumatic Axis Fractures: Review of 342 Cases. The Western Neurosurgical Society, San Diego, California, September 1994.

Sonntag VKH, Knightly JJ, Karahalios DG, Ronderos JF, Dickman CA: Unilateral Posterior Atlantoaxial Facet Screw Fixation. The Western Neurosurgical Society, San Diego, California, September 1994.

Sonntag VKH: Introduction to Thoracolumbar Instrument Biomechanics: Which system for which problem? 44th Annual Meeting of the Congress of Neurological Surgeons, Chicago, Illinois, October 1994.

Knightly JJ, Dickman CA, Ronderos JF, Vardiman AB, Karahalios DG, Crawford N, Sonntag VKH: Bilateral Versus Unilateral Posterior Atlantoaxial Facet Screw Fixation. 44th Annual Meeting of the Congress of Neurological Surgeons, Chicago, Illinois, October 1994.

Dickman CA, Crawford N, Brantly A, Sonntag VKH: Biomechanical Effects of Transoral Odontoidectomy. 44th Annual Meeting of the Congress of Neurological Surgeons, Chicago, Illinois, October 1994.

Fessler R, Sonntag VKH, Traynelis VC: Cervical Spine Instability and Indications for Instrumentation. 44th Annual Meeting, Chicago, Illinois, October 1994.

Vardiman AB, Dickman CA, Sonntag VKH: A Comparison of the Transoral and Anterolateral Retropharyngeal Approaches to the Craniovertebral Junction. 44th Annual Meeting, Chicago, Illinois, October 1994.

Golfinos JG, Zabramski JM, Sonntag VKH, Dickman CA: Repair of Vertebral Artery Injury Caused During Anterior Cervical Decompression. 44th Annual Meeting, Chicago, Illinois, October 1994.

Apostolides PJ, Karahalios DG, Dickman CA, Sonntag VKH: Anterior Surgical Arthrodesis of the Cervicothoracic Junction. 44th Annual Meeting, Chicago, Illinois, October 1994.

Sonntag VKH: Surgical Management of Cervical Spinal Injuries. Advances in Neurology and Neurosurgery Decade of the Brain Conference, Washington, D.C., October 1994.

Sonntag VKH: Thoracic Lumbar Instrumentation. Advances in Neurology and Neurosurgery Decade of the Brain Conference, Washington, D.C., October 1994.

Sonntag VKH: Management of Cervical Compressive Myelopathy. XXVI Congresso Latinoamericano de Neurocirugia, Cartagena, Colombia, October 1994.

Sonntag VKH: Surgical Techniques for Anterior Cervical Fusion. XXVI Congresso Latinoamericano de Neurocirugia, Cartagena, Colombia, October 1994.

Sonntag VKH: Cervical Microdissectomies. XXVI Congresso Latinoamericano de Neurocirugia, Cartagena, Colombia, October 1994.

Sonntag VKH (Visiting Professor): Spinal Instrumentation. University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, October 1994.

Sonntag VKH: Indications for Anterior Instrumentation. Cervical Spine Workshop, Melbourne, Australia, November 1994.

Sonntag VKH: Complications of Anterior Instrumentation. Cervical Spine Workshop, Melbourne, Australia, November 1994.

Presentations for 1993 (41)

Sonntag VKH: Indications for Cervical Spine Screws, Plates, and Wiring. Cervical Spine Stabilization Course. University of California, Los Angeles, California, January 1993.

Cherny WB, Brya CA, Dickman CA, Sonntag VKH: The Cost of Cervical Instrumentation. 9th Annual Meeting of the Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, Tucson, Arizona, February 1993.

Douglas RA, Wilberger J, McKenzie R, Kalfas IH, Dickman CA, Sonntag VKH, Drabier J: Preliminary Review of the Synthes Anterior Cervical Spine Locking Plate System. 9th Annual Meeting of the Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, Tucson, Arizona, February 1993.

Herman JM, Sonntag VKH: Anterior Decompression and Plate Fixation for Treatment of Post-laminectomy Kyphosis and Instability. 9th Annual Meeting of the Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, Tucson, Arizona, February, 1993.

Sonntag VKH (Chairman's Address): The Definition of a Neurosurgical Spine Surgeon. 9th Annual Meeting of the Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, Tucson, Arizona, February 1993.

Sonntag VKH: Spinal Instrumentation. The University of Chicago, Department of Surgery, Section of Neurosurgery, Chicago, Illinois, February 1993.

Levi DI, Sonntag VKH (Poster): Cervical Spine Instrumentation for Rheumatoid Arthritis. 9th Annual Meeting of the Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, Tucson, Arizona, February 1993.

Zimmerman CG, Sonntag VKH (Poster): Management of Solitary Spinal Plasmacytomas. 9th Annual Meeting of the Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, Tucson, Arizona, February 1993.

Zimmerman CG, Dickman CA, Sonntag VKH: MRI Evaluation of Spinal Cord Injuries Without Radiographic Abnormalities. 9th Annual Meeting of the Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, Tucson, Arizona, February 1993.

Karahalios DG, Dickman CA, Sonntag VKH, Marcotte P: Posterior Atlantoaxial Facet Screw Fixation. 9th Annual Meeting of the Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, Tucson, Arizona, February 1993.

Apostolides PJ, Golfinos JG, Dickman CA, Papadopoulos S, Sonntag VKH, Drabier J: Threaded Steinman Pin Fusion of the Craniovertebral Junction. 9th Annual Meeting of the Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, Tucson, Arizona, February 1993.

Sonntag VKH: Spinal Cord Trauma: Better Prognosis with New Pharmacological Procedures. 20th Annual Symposium, Barrow Neurological Institute, Phoenix, Arizona, March 1993.

Sonntag VKH: Posterior Atlantoaxial Facet Screw Fixation Neurosurgical Society of America, 46th Annual Meeting, Boca Raton, Florida, March 1993.

Sonntag VKH, Papadopoulos SM: Cervical Spine Instability: Instrumentation and Other Methods of Management. 61st Annual Meeting AANS (Practical Clinical I and VIII), Boston, Massachusetts, April 1993.

Sonntag VKH: Cranial Cervical Stabilization. 61st Annual Meeting AANS, Boston, Massachusetts, April 1993.

Sonntag VKH (Panelist): Contemporary Stabilization Techniques for the Upper Cervical Spine. 61st Annual Meeting AANS, Boston, Massachusetts, April 1993.

Sonntag VKH: Selection of Operative Approach in the Treatment of Cervical Spondylitic Myelopathy: Report of 300 Cases. 61st Annual Meeting AANS, Boston, Massachusetts, April 1993.

Sonntag VKH (Panelist): Controversies in Spinal Surgery: Anterior Instrumentation of the Cervical Spine. 61st Annual Meeting AANS, Boston, Massachusetts, April 1993.

Sonntag VKH (Moderator): Controversies in Spinal Surgery: Anterior Instrumentation of the Cervical Spine. 61st Annual Meeting AANS, Scientific Section, Boston, Massachusetts, April 1993.

Sonntag VKH: Complications of Instrumentation. 61st Annual Meeting AANS, Boston, Massachusetts, April 1993.

Levy DI, Sonntag VKH: History of Transoral Spine Surgery. 28th Annual Meeting of the Rocky Mountain Neurosurgical Society, Bigfork, Montana, June 1993.

Cherny WB, Dickman CA, Sonntag VKH: The Cost of Cervical Spine Instrumentation. 28th Annual Meeting of the Rocky Mountain Neurosurgical Society, Bigfork, Montana, June 1993.

Zimmerman CG, Zerick WR, Spetzler RF, Sonntag VKH: Transoral Odontoidectomy Update: Report of 105 Cases. 28th Annual Meeting of the Rocky Mountain Neurosurgical Society, Bigfork, Montana, June 1993.

Greene KA, Marciano FF, Zimmerman CG, Dickman CA, Drabier J, Hadley MN, Birmingham AL, Sonntag VKH: Trends in Management of Acute Traumatic Axis Fractures: Review of 315 Cases. 28th Annual Meeting of the Rocky Mountain Neurosurgical Society, Bigfork, Montana, June 1993.

Zerick WR, Zimmerman C, Dickman CA, Sonntag VKH: Review of 53 Consecutive Cervical Corpectomies: Indications, Complications, and Results. 28th Annual Meeting of the Rocky Mountain Neurosurgical Society, Bigfork, Montana, June 1993.

Sonntag VKH: A Clinical Comparison of Caspar to Synthes Plates. Kasdon Neurosurgical Research Forum (Scientific Program), Bermuda, June 1993.

Sonntag VKH (Moderator): Transoral Decompression. 5th Annual Spine Workshop Cervical Course. Bethesda, Maryland, June 1993.

Sonntag VKH: Cervical Instrumentation. Johns Hopkins University, Baltimore Maryland, July 1993.

Sonntag VKH: Transoral Approach to the Craniocervical Junction, Baltimore, Maryland, Johns Hopkins University, July 1993.

Sonntag VKH (Panelist): Management of Lesions of the Craniocervical Junction. 43rd Annual Meeting of the Congress of Neurological Surgeons, Vancouver, Canada, October 1993.

Apostolides PF, Zimmerman CG, Zerick WR, Spetzler RF, Sonntag VKH: Transoral Odontoidectomy Update: Report of 105 Cases. 43rd Annual Meeting of the Congress of Neurological Surgeons, Vancouver, Canada, October 1993.

Greene KA, Marciano FF, Zimmerman CG, Dickman CA, Drabier F, Hadley M, Sonntag VKH: Trends in Management of Acute Traumatic Axis Fractures: Review of 315 Cases. 43rd Annual Meeting of the Congress of Neurological Surgeons, Vancouver, Canada, October 1993.

Sonntag VKH: Techniques for Thoracic Spine Stabilization. World Federation of Neurosurgical Societies, International Congress of Neurological Surgery, Acapulco, Mexico, October 1993.

Sonntag VKH: Management of Cervical Spondylosis and Disc Disease. World Federation of Neurosurgical Societies, International Congress of Neurological Surgery, Acapulco, Mexico, October 1993.

Sonntag VKH: Spinal Trauma. World Federation of Neurosurgical Societies, International Congress of Neurological Surgery, Acapulco, Mexico, October 1993.

Sonntag VKH: Techniques for Craniocervical Stabilization. World Federation of Neurosurgical Societies, International Congress of Neurological Surgery, Acapulco, Mexico, October 1993.

Dickman CA, Crawford NR, Brantley AGU, Sonntag VKH, Tominaga T: Morphology and Kinematics of the Baboon's Upper Cervical Spine: A Model of the Atlantoaxial Complex. 21st Annual Meeting of the Cervical Spine Research Society, New York, New York, December 1993.

Greene KA, Dickman CA, Sonntag VKH: Odontoid Fractures Associated with Transverse Ligament Disruption. 21st Annual Meeting of the Cervical Spine Research Society, New York, New York, December 1993.

Golfinos JG, Zabramski JM, Spetzler RF, Sonntag VKH, Dickman CA: Repair of Vertebral Artery Injury During Anterior Cervical Decompression. 21st Annual Meeting of the Cervical Spine Research Society, New York, New York, December 1993.

Sonntag VKH: Trauma of the Spine with Special Considerations of Craniocervical Junction. World Federation of Neurosurgical Societies, International Course on Clinical Neurosurgery, Hanover, Germany, December 1993.

Sonntag VKH: Instrumentation on the Spine. World Federation of Neurosurgical Societies, International Course on Clinical Neurosurgery, Hanover, Germany, December 1993.

Presentations for 1992 (36)

Sonntag VKH, Marciano FF: Spinal Cord Trauma: Better Prognosis with New Pharmacological Procedures? Intensivmedizin 1992.13. Internationales Symposium über Aktuelle Probleme der Notfallmedizin und Intensivtherapie, München, New York, Georg Thieme Verlag Stuttgart, 1992.

Sonntag VKH: Treatment Algorithm for Upper Cervical Spine Injuries. 8th Annual Meeting, Joint Section on Disorders of the Spine and Peripheral Nerves, Miami, Florida, February 1992.

Marcotte PJ, Sonntag VKH: Cervical Corpectomy: Indication Complications and Results of 35 Cases. 8th Annual Meeting, Joint Section on Disorders of the Spine and Peripheral Nerves, Miami, Florida, February 1992.

Pappas CTE, Sonntag VKH, Harrington TR: A Prospective Study of Instability After Surgical Treatment of Lumbar Stenosis in the Elderly. 8th Annual Meeting, Joint Section on Disorders of the Spine and Peripheral Nerves, Miami, Florida, February 1992.

Herman JM, Sonntag VKH: Re-operation for Cervical Spine Disease. 8th Annual Meeting, Joint Section on Disorders of the Spine and Peripheral Nerves, Miami, Florida, February 1992.

Dickman CA, Sonntag VKH, Moody M, Drabier J (poster): Surgical Management of Unstable Hangman's Fracture. 8th Annual Meeting, Joint Section on Disorders of the Spine and Peripheral Nerves, Miami, Florida, February 1992.

Herman J, Baldwin HZ, Sonntag VKH (poster): Symptomatic and Asymptomatic Patients with Intraspinial Synovial Cysts. 8th Annual Meeting, Joint Section on Disorders of the Spine and Peripheral Nerves, Miami, Florida, February 1992.

Golfinos JG, Marcotte PJ, Sonntag VKH (poster): Anterior Cervical Discectomy without Fusion. 8th Annual Meeting, Joint Section on Disorders of the Spine and Peripheral Nerves, Miami, Florida, February 1992.

Sonntag VKH: Management of Spinal Cord Trauma. Viet-Duc Hospital, Hanoi, Vietnam, January 1992.

Sonntag VKH: Management of Head Trauma. Viet-Duc Hospital, Hanoi, Vietnam, January 1992.

Sonntag VKH: Caspar Plate Stabilization of the Cervical Spine - Techniques and Experience. Mayfield Winter Neurosurgical Symposium Advances in Clinical Neurosurgery, Snowmass, Colorado, March 1992.

Sonntag VKH: Management of Degenerative Spondylitic Spinal Disease. Recent Advances in Neurology and Neurosurgery, 19th Annual Symposium, Barrow Neurological Institute, Phoenix, Arizona, March 1992.

Sonntag VKH, Papadopoulos S: Cervical Spine Stabilization: Instrumentation and Methods. 60th Annual Meeting of the AANS, San Francisco, California, April 1992.

Sonntag VKH: Posterior Stabilization of the Cervical Spine. 60th Annual Meeting of the AANS, San Francisco, California, April 1992.

Pappas CT, Sonntag VKH, Harrington TR: A Prospective Study of 206 Cases of Lumbar Stenosis in the Elderly to Determine Surgical Contraindications and Spinal Instability. 60th Annual Meeting of AANS, San Francisco, California, April 1992.

Sonntag VKH (Co-moderator): Scientific Session, AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves. 60th Annual Meeting of the AANS, San Francisco, California, April 1992.

Sonntag VKH (Visiting Professor): Treatment of Upper Cervical Spine Injuries. Henry Ford Hospital, Department of Orthopaedics, Detroit, Michigan, April 1992.

Sonntag VKH: Transoral Approach to the Craniovertebral Junction. Henry Ford Hospital, Detroit, Michigan, April 1992.

Sonntag VKH: Better Prognosis by New Pharmacological Approaches. 13th Internationales Symposium uber Aktuelle Probleme der Notfallmedizin und Intensivtherapie, Intensivmedizin 1992, "Shock und Traum", Ludwig-Maximilians Universitat Munchen, April 1992.

Sonntag VKH: Spinal Instrumentation. 12th Annual Meeting of the Japanese Congress of Neurological Surgery, Niigata, Japan, April 1992.

Sonntag VKH: Guidelines for Spinal Training for Neurosurgery Residents. 83rd Meeting of the Society of Neurological Surgeons, Louisville, Kentucky, May 1992.

Sonntag VKH: Instrumentation of the Mid/Lower Cervical Spine. 45th Annual Meeting of the Neurosurgical Society of America, Banff, Alberta, June 1992.

Herman J, Sonntag VKH: Progressive Deficits After Posterior Decompression Laminectomy for Cervical Spondylosis. 27th Annual Meeting of the Rocky Mountain Neurosurgical Society, Sedona, Arizona, June 1992.

Dickman CA, Moody M, Sonntag VKH, Drabier J: Surgical Management of Unstable Hangman's Fracture. 27th Annual Meeting of the Rocky Mountain Neurosurgical Society, Sedona, Arizona, June 1992.

Marcotte PJ, Sonntag VKH, Fitzpatrick B, Dickman CA: Posterior Transarticular Screw Fixation: Preliminary Report. 27th Annual Meeting of the Rocky Mountain Neurosurgical Society, Sedona, Arizona, June 1992.

Golfinos JG, Marcotte PJ, Sonntag VKH: Anterior Cervical Discectomy Without Fusion. 27th Annual Meeting of the Rocky Mountain Neurosurgical Society, Sedona, Arizona, June 1992.

Lawton M, Francis PM, Sonntag VKH, Harrington T, Brya CA: The Modified Costotransversectomy Approach. 27th Annual Meeting of the Rocky Mountain Neurosurgical Society, Sedona, Arizona, June 1992.

Sonntag VKH: Anterior Cervical Discectomy Without Fusion. 38th Annual Meeting of the Western Neurosurgical Society, September 1992.

Sonntag VKH (Course Instructor): Anterior and Posterior Fixation for Odontoid Fracture 78th Annual Meeting of the American College of Surgeons Clinical Congress, New Orleans, Louisiana, October 1992.

Sonntag VKH: Craniocervical Stabilization. 42nd Annual Meeting of the CNS, Washington, D.C., October - November 1992.

Sonntag VKH (Visiting Professor): Cervical Spine Instrumentation. 3rd Annual Colorado Spine Symposium, Denver, Colorado, November 1992.

Sonntag VKH: Alternate Cervical Spine Fusion (Course Instructor). 5th Annual Spine Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 1992.

Sonntag VKH, Zimmerman C: Posterior Cervical Stabilization. 5th Annual Spine Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 1992.

Sonntag VKH (Course Instructor): Management of Upper Cervical Spine Fractures: Posterior Approach. 5th Annual Spine Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 1992.

Sonntag VKH: Surgery of the Cervical Spine - Hands-on. Professional Development of AANS, Los Angeles, California, November 1992.

Sonntag VKH: Surgery of the Cervical Spine - Hands-on. Professional Development of AANS, St. Louis, Missouri, October 1992.

Sonntag VKH (Visiting Professor): Spinal Instrumentation. Ohio State Neurosurgical Society, Cincinnati, Ohio, December 1992.

Presentations for 1991 (39)

Sonntag VKH: Upper Cervical Spine Stabilization. 2nd Annual Spinal Disorders Update 1991, Delray Community Hospital, Palm Beach, Florida, January 1991.

Dickman CA, Sonntag VKH, Papadopoulos SM, Hadley MN: The Interspinous Method of Posterior Atlantoaxial Arthrodesis. Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, 7th Annual Meeting, Marriott's Rancho Las Palmas Resort, Rancho Mirage, California, February 1991.

Haid RW, Papadopoulos SM, Sonntag VKH: Lateral Mass Plating of Cervical Instability. Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, 7th Annual Meeting, Marriott's Rancho Las Palmas Resort, Rancho Mirage, California, February 1991.

Sonntag VKH: Cervical Spine Instrumentation. Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, 7th Annual Meeting, Marriott's Rancho Las Palmas Resort, Rancho Mirage, California, February 1991.

Sonntag VKH: Posterior Fusion. Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, 7th Annual Meeting, Marriott's Rancho Las Palmas Resort, Rancho Mirage, California, February 1991.

Kalfas LH, Papadopoulos ST, Sonntag VKH: Anterior Cervical Fusion and Caspar Plate Stabilization for Degenerative Disorders of the Cervical Spine. Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, 7th Annual Meeting, Marriott's Rancho Las Palmas Resort, Rancho Mirage, California, February 1991.

Dickman CA, Sonntag VKH, Douglas RA: Occipitocervical Fusion Utilizing a Contoured Threaded Pin. Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, 7th Annual Meeting, Marriott's Rancho Las Palmas Resort, Rancho Mirage, California, February 1991.

Papadopoulos SM, Kalfas LH, Sonntag VKH: Caspar Plate Stabilization: Indications, Results, and Complications in 80 Consecutive Patients. Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, 7th Annual Meeting, Marriott's Rancho Las Palmas Resort, Rancho Mirage, California, February 1991.

Dickman CA, Zabramski JM, ReKate HL, Sonntag VKH: Neurological Outcome After Spinal Cord Injury Without Radiographic Abnormalities. Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, 7th Annual Meeting, Marriott's Rancho Las Palmas Resort, Rancho Mirage, California, February 1991.

Sonntag VKH: Clinical Applications of the "Steroid Study." Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, 7th Annual Meeting, Marriott's Rancho Las Palmas Resort, Rancho Mirage, California, February 1991.

Dickman CA, Mamourian AM, Sonntag VKH, Drayer BP: Magnetic Resonance Imaging of the Transverse Atlantal Ligament: Assessment of Upper Cervical Instability. Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS, 7th Annual Meeting, Marriott's Rancho Las Palmas Resort, Rancho Mirage, California, February 1991.

Sonntag VKH: The Role of Operative Treatment in the Fractured Cervical Spine. Steamboat Neurosurgical Symposium "Controversies in Neurosurgery". Steamboat Springs, Colorado, February 1991.

Sonntag VKH: Steroids in Spinal Cord Injury New Information on an Old Topic. Steamboat Springs, Colorado, February 1991.

Sonntag VKH: Spinal Cord Injuries - Treatment Advances with Steroids. Trauma Conference, Phoenix, Arizona, February 1991.

Sonntag VKH: Instrumentation of the Cervical Spine. Interurban Neurosurgical Society 1 Annual Meeting, Chicago, Illinois, March 1991.

Sonntag VKH: Management of Pineal Tumors. 18th Annual Barrow Neurological Institute Symposium, Scottsdale, Arizona, March 1991.

Sonntag VKH: Cervical Spine Stabilization Using Internal Stabilization Devices. The Southern California Neurosurgical Society Annual Symposium, Pasadena, California, April 1991.

Dickman CA, Zabramski JM, ReKate H, Sonntag VKH: Neurological Outcome After Spinal Cord Injury Without Radiographic Abnormalities. 59th Annual Meeting of the AANS, New Orleans, Louisiana, April 1991.

Dickman CA, Sonntag VKH, Douglas R: Occipitocervical Fusion Utilizing a Contoured Threaded Pin. 59th Annual Meeting of the AANS, New Orleans, Louisiana, April 1991.

Sonntag VKH: Use of Methylprednisolone in Cervical Spine Injury. The Southern California Neurosurgical Society Annual Symposium, Pasadena, California, April 1991.

Sonntag VKH (Visiting Professor): Management of the Acute Spinal Cord Injured Patient. - National Naval Medical Center, Uniformed Services University of the Health Sciences, Bethesda, Maryland, April 1991.

Sonntag VKH (Course Director): Cervical Spine Stabilization: Instrumentation and Methods. Practical Clinic VI, 59th Annual Meeting of the AANS, New Orleans Convention Center, New Orleans, Louisiana, April 1991.

Sonntag VKH (Course Director): Cervical Spine Stabilization: Instrumentation and Methods. Practical Clinic XIII 59th Annual Meeting of the AANS, New Orleans, Louisiana, April 1991.

Haid RW, Papadopoulos SM, Sonntag VKH: Lateral Mass Plating for Cervical Instability. 59th Annual Meeting of the AANS, New Orleans, Louisiana, April 1991.

Papadopoulos SM, Sonntag VKH, Kalfas IH: Caspar Plate Stabilization: Indications, Results, and Complications in 90 Consecutive Patients. 59th Annual Meeting of the AANS, New Orleans, Louisiana, April 1991.

Dickman CA, Sonntag VKH, Papadopoulos SM, Hadley MM: The Interspinous Method of Posterior Atlantoaxial Arthrodesis. 59th Annual Meeting of the AANS, New Orleans, Louisiana, April 1991.

Sonntag VKH (Panelist): Spinal Cord Injury: Indications for Surgical Intervention. 59th Annual Meeting of the AANS, New Orleans, Louisiana, April 1991.

Sonntag VKH: Instability: Methods of External and Internal Stabilization. Special Course I: Surgery of the Cranial Cervical Junction: Problems and Solutions. 59th Annual Meeting of the AANS, New Orleans Convention Center, New Orleans, Louisiana, April 1991.

Sonntag VKH: Issues of Sub-specialization and Fellowship Training in Spinal Surgery: Joint Section of Surgery of the Spine and Peripheral Nerves. 82nd Meeting of the Society of Neurological Surgeons, Medical University of South Carolina, Charleston, South Carolina, May 1991.

Sonntag VKH: Instrumentation of the Non-traumatic Cervical Spine. 44th Annual Meeting of the Neurosurgical Society of American, Destin, Florida, May 1991.

Sonntag VKH (Panelist): Cervical Spine Surgery: Instrumentation of the Non-traumatic Cervical Spine. 44th Annual Meeting of the Neurosurgical Society of America, Destin, Florida, May 1991.

Sonntag VKH: Cruciate Paralysis: Presenting 14 Clinical Cases and a New Neuroanatomical Theory. 44th Annual Meeting of the Neurosurgical Society of America, Destin, Florida, May 1991.

Sonntag VKH (Visiting Professor): Transvertebral Cervical Spine Fusion and Instrumentation. Chicago Institute of Neurosurgery and Neuro-research, Chicago Neurosurgical Center, Chicago, Illinois, June 1991.

Sonntag VKH: Caspar Instrumentation of the Cervical Spine: Instruction Hands-on. 3rd Annual Spinal Workshop, Bethesda, Maryland, June 1991.

Sonntag VKH: Transoral Approach to Cranial Vertebral Junction. 3rd Annual Spinal Workshop, Bethesda, Maryland, June 1991.

Sonntag VKH: Caspar Plating Experience. 3rd Annual Spinal Workshop, Bethesda, Maryland, June 1991.

Sonntag VKH: MRI of the Transverse Ligament: Evaluation of Atlantoaxial Instability. Neurosurgical Research Forum, 7th Annual Meeting, Newport, Rhode Island, July 1991.

Sonntag VKH: (Guest Lecturer): Clinical Correlation. Orlando, Florida, August 1991.

Presentations for 1990 (46)

Sonntag VKH: Lumbar Disc Disease. Ski Snowbird with the Spine Center, Florida Orthopaedic Institute, Snowbird, Utah, January 1990.

Sonntag VKH: Anterior Surgical Treatment of Cervical Myeloradiculopathy. Ski Snowbird with the Spine Center, Florida Orthopaedic Institute, Snowbird, Utah, January 1990.

Silbiger M, Sonntag VKH, Ducker T, Sutterlin C: Panel Discussion: Cervical Degenerative Disease. Ski Snowbird with the Spine Center, Florida Orthopaedic Institute, Snowbird, Utah, January 1990.

Sonntag VKH: Spinal Cord Tumors. Ski Snowbird with the Spine Center, Florida Orthopaedic Institute, Snowbird, Utah, January 1990.

Dickman CA, Sonntag VKH, Spetzler RF, Carter LP: Spinal Epidural Hematomas: Clinical Manifestations and Postoperative Outcome. 6th Annual Meeting, Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS. South Seas Plantation, Captiva Island, Florida, February 1990.

Dickman CA, Douglas R, Sonntag VKH, Spetzler RF, Papadopoulos S: Occipitoatlantal Dislocation Injuries: Diagnosis, Management and Outcome. 6th Annual Meeting, Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS. South Seas Plantation, Captiva Island, Florida, February 1990.

Papadopoulos SM, Dickman CA, Sonntag VKH: Atlantoaxial Stabilization in Rheumatoid Arthritis. 6th Annual Meeting, Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS. South Seas Plantation, Captiva Island, Florida, February 1990.

Herman JM, Dickman CA, Sonntag VKH, Drayer B: The Role of Enhanced MRI Imaging in the Perioperative Management of Spinal Tumors. 6th Annual Meeting, Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS. South Seas Plantation, Captiva Island, Florida, February 1990.

Masferrer R, Dickman CA, Zabramski JM, Carrion CA, Sonntag VKH: Complications of Therapeutic Spinal Manipulations. 6th Annual Meeting, Joint Section on Disorders of the Spine and Peripheral Nerves, AANS/CNS. South Seas Plantation, Captiva Island, Florida, February 1990.

Sonntag VKH: Innovative Fusion and Instrumentation Techniques for the Cervical Spine. Steamboat Neurosurgical Symposium "Innovations in Spinal and Intracranial Surgery", Steamboat Springs, Colorado, February 1990.

Sonntag VKH: The Transoral Approach to the Cervical Medullary Function. Steamboat Neurosurgical Symposium "Innovations in Spinal and Intracranial Surgery", Steamboat Springs, Colorado, February 1990.

Sonntag VKH: Innovative Cervical Spine Surgery. 17th Annual Barrow Neurological Institute Symposium. Scottsdale, Arizona, March 1990.

Sonntag VKH: Visiting Professor - Innovative Methods of Cervical Spine Stabilization. University of Michigan, Section of Neurosurgery, Ann Arbor, Michigan, March 1990.

Sonntag VKH (Visiting Professor): Treatment of Cervical Spine Injuries. University of Michigan, Section of Neurosurgery, Ann Arbor, Michigan, March 1990.

Sonntag VKH (Visiting Professor): Transoral Approach to the Cervical Medullary Function. University of Texas, Southwest Medical Center, Dallas, Texas, March 1990.

Sonntag VKH (Visiting Professor): Management of Pineal Tumors. University of Texas, Southwest Medical Center, Dallas, Texas, March 1990.

Sonntag VKH (Visiting Professor): Innovative Methods of Cervical Spine Stabilization. University of Texas, Southwest Medical Center, Dallas, Texas, March 1990.

Sonntag VKH (Visiting Professor): Treatment of Cervical Spine Injuries. University of Texas, Southwest Medical Center, Dallas, Texas, March 1990.

Menezes AH, Connolly EF, Sonntag VKH, Hardy RW, D'Angelo CM: Firing Line: Surgical Decisions in Cervical and Lumbar Spine Problems. 43rd Annual Meeting of the Neurosurgical Society of America, Pebble Beach, California, April 1990.

Sonntag VKH, Sybert GW, Geisler FH, McWhorter JM, Apfelbaum RI: Cervical Spine Stabilization. 1990 Annual Meeting of the AANS, Nashville, Tennessee, April 1990.

Sonntag VKH, Hadley M, Seljeskog EL, McWhorter JM: Management of Atlantoaxial Injuries. 1990 Annual Meeting of the AANS, Nashville, Tennessee, April 1990.

McWhorter JM, Bennett GJ, Maiman DJ, Sonntag VKH, Spengler DM: Cervical Spine Stabilization. 1990 Annual Meeting of the AANS, Nashville, Tennessee, April 1990.

Sonntag VKH: Results of National Acute Spinal Cord Injury Study-II: Naloxone Versus Steroids. 1990 Annual Meeting of the AANS, Nashville, Tennessee, April 1990.

Spetzler RF, Sonntag VKH: The Transoral Approach to the Odontoid Region. International Symposium on Processes of the Cranial Midline, Vienna, Austria, May 1990.

Sonntag VKH: Management of Occipitoatlantal Dislocation Injuries. International Symposium on Processes of the Cranial Midline, Vienna, Austria, May 1990.

Sonntag VKH: Cruciate Paralysis: Presenting 14 Clinical Cases and a New Neuroanatomical Theory. International Symposium on Processes of the Cranial Midline, Vienna, Austria, May 1990.

Sonntag VKH: Acute Spinal Cord Injury. Barrow Neurological Institute Symposium, Phoenix, Arizona, June 1990.

Sonntag VKH (Visiting Professor): Management of Cervical Fractures. Hartford Hospital, Department of Neurosurgery, Hartford, Connecticut, June 1990.

Pappas CTE, Sonntag VKH: Evoked Potentials in a Canine Model Simulating Automobile Neck Injuries. 25th Annual Meeting of the Rocky Mountain Neurosurgical Society, Vail, Colorado, June 1990.

Liu SS, Sonntag VKH: Acute Traumatic Cervical Discs. 25th Annual Meeting of the Rocky Mountain Neurosurgical Society, Vail, Colorado, June 1990.

Sonntag VKH (Visiting Professor): Management of Axis, Atlas, and Occipital Atlas Injuries. The Transoral Approach to the Anterior Cervical Spine: A Review of 74 Cases. University of Toronto, Division of Neurosurgery, Toronto, Ontario, Canada, June 1990.

Sonntag VKH: Evoked Potentials in a Canine Model Simulating Motor Vehicle Neck Injuries. 1990 Annual Meeting of the Kasdon Neurosurgical Research Forum, Westwater Canyon and Telluride, Colorado, August 1990.

Sonntag VKH: Indications for Surgical Technique for Posterior Cervical Spine Surgery. The University of Florida and the Florida Neurosurgical Society, Orlando, Florida, August 1990.

Sonntag VKH: Transoral Approach to the Cervical Medullary Junction, Syracuse University, Department of Neurosurgery, Syracuse, New York, September 1990.

Sonntag VKH: Innovative Fusion Techniques - Cervical Spine, Syracuse University, Department of Neurosurgery, Syracuse, New York, September 1990.

Sonntag VKH: Current Management in Spinal Cord Injury. 7th Conference on Neural trauma, Charlottesville, Virginia, September 1990.

Sonntag VKH: Traumatic Lesions of the Occiput C1-2 Complex and Stability Considerations, University of Pittsburgh Center for Continuing Education for the Health Sciences, Pittsburgh, Pennsylvania, October 1990.

Sonntag VKH: Cervical Spine Instrumentation. 40th Annual Meeting CNS, Los Angeles, California, October 1990.

Sonntag VKH, McWhorter JM, Haid RW, Papadopoulos SM: Indications and Techniques for Cervical Spine Stabilization and Fusion. 40th Annual Meeting CNS, Los Angeles, California, October 1990.

Sonntag VKH, Sen CN, Menezes AH, Becker DP: Approaches to the Craniovertebral Junction and Upper Cervical Spine. 40th Annual Meeting CNS, Los Angeles, California, October 1990.

Sonntag VKH: Alternate Fusion of the Cervical Spine. 3rd Annual Spine Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 1990.

Sonntag VKH, Douglas RA: Posterior Cervical Stabilization. 3rd Annual Spine Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 1990.

Sonntag VKH: Approach to the Thoracic-Lumbar Junction. 3rd Annual Spine Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 1990.

Sonntag VKH, Douglas RA: Posterior Cervical Stabilization. 3rd Annual Spine Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 1990.

Sonntag VKH: Management of Upper cervical Spine Fractures: Posterior Approach. 3rd Annual Spine Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 1990.

Sonntag VKH, Douglas RA: Posterior Cervical Stabilization. 3rd Annual Spine Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 1990.

Presentations for 1989 (27)

Sonntag VKH (Visiting Professor): Management of C1-2 Fractures. University of Alabama, Birmingham, Alabama, January 1989.

Sonntag VKH (Visiting Professor): Craniovertebral Junction Abnormalities. University of Alabama, Birmingham, Alabama, January 1989.

Sonntag VKH: Immediate Care of the Spinal Cord Injured Patient. Joint Section of Disorders of the Spine and Peripheral Nerves, AANS/CNS, Cancun, Mexico, February 1989.

Fitzpatrick B Hadley, Sonntag VKH: Management of Bilateral Locked Facets. Joint Section of Disorders of the Spine and Peripheral Nerves AANS/CNS, Cancun, Mexico, February 1989.

Dickman, Pappas, CTE, Hadley, MN, Sonntag VKH, Gibson, Geisler F: Bell's Cruciate Paralysis: Clinical, Radiographic, and Neuroanatomical Considerations. Joint Section of Disorders of the Spine and Peripheral Nerves AANS/CNS, Cancun, Mexico, February 1989.

Pappas CTE, Harrington T, Sonntag VKH: Surgical Outcome for Lumbar Microdiscectomies. Joint Section of Disorders of the Spine and Peripheral Nerves AANS/CNS, Cancun, Mexico, February 1989.

Sonntag VKH: Midas Rex Cervical Corpectomy. MRI Symposium, Scottsdale, Arizona, March 1989.

Sonntag VKH: Pineal Region Tumors: Diagnosis and Treatment. 16th Annual Symposium, Neoplasms of the Nervous System, Barrow Neurological Institute, Scottsdale, Arizona, March 1989.

Sonntag VKH (Visiting Professor): Cervical Spine Reconstruction. Emory University School of Medicine, Atlanta, Georgia, March 1989.

Sonntag VKH (Visiting Professor): Cranial Vertebral Junction Abnormalities. Emory University School of Medicine, Atlanta, Georgia, March 1989.

Sonntag VKH, Geisler FH Apfelbaum RI: Casper Cervical Instrumentation (Didactic and Hands-on Instruction). The Annual Meeting of the AANS, Washington, D.C., April 1989.

Sonntag VKH, Geisler FH, Mcwhorter M, Kalfas IH: Cervical Spine Stabilization (Didactic and Hands-on Instruction). The Annual Meeting of the AANS, Washington, D.C., April 1989.

Sonntag VKH, Crockard HA, Menezes AH: Surgical Management of the Rheumatoid Spine. The Annual Meeting of the AANS, Washington, D.C., April 1989.

Sonntag VKH: Brain Resuscitation. Festival of the Emergency Arts, Lake Powell, Arizona, April 1989.

Sonntag VKH: Fluid Management of the CNS. Festival of the Emergency Arts, Lake Powell, Arizona, April 1989.

Baldwin HZ, Sonntag VKH: Influence of Halo Vest Treatment on Pulmonary Complications of Acute Spinal Cord and Cervical Spine Injuries. 24th Annual Meeting, The Rocky Mountain Neurosurgical Society, Durango, Colorado, June 1989.

Pappas CTE, Spetzler, Sonntag VKH: Surgical Approaches to the Tumors of the Clivus. 24th Annual Meeting, The Rocky Mountain Neurosurgical Society, Durango, Colorado, June 1989.

Masferrer R, Sonntag VKH: Camptocormia in Military Personnel Assigned to the Western Pacific. 24th Annual Meeting, The Rocky Mountain Neurosurgical Society, Durango, Colorado, June 1989.

Sonntag VKH (Visiting Professor): Management of the Acute Spinal Cord Injured Patient (Cervical). University of Tokyo, Tokyo, Japan, September 1989.

Sonntag VKH (Visiting Professor): Trauma: Innovative Cervical Fusion Technique. University of Tokyo, Tokyo, Japan, September 1989.

Sonntag VKH: Posterior Cervical Spine Stabilization. Congress of Neurological Surgeons, Atlanta, Georgia, October - November 1989.

Tator CH, Sonntag VKH, Wilberger JE, Bennett GJ: Spinal Cord Injury: Surgery When and If. Congress of Neurological Surgeons, Atlanta, Georgia, October - November 1989.

Sonntag VKH, Rosomoff HL, Epstein NE, Sybert GW: Lumbar Stenosis, Surgery vs. Non-surgery. Congress of Neurological Surgeons, Atlanta, Georgia, October - November 1989.

Sonntag VKH: Innovative Fusion/Instrumentation Techniques. Congress of Neurological Surgeons, Atlanta, Georgia, October - November 1989.

Sonntag VKH: Approach to the Thoracic Lumbar Junction. 2nd Annual Spine Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 1989.

Sonntag VKH: Management of Cervical Spine Injury. 2nd Annual Spine Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 1989.

Sonntag VKH: Management of C1-2 Fractures: Posterior Approach. 2nd Annual Spine Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 1989.

Presentations for 1988 (20)

Pappas CTE, Sonntag VKH, Harrington T: Spinal Stenosis in the Elderly. The 1988 Annual Meeting of the AANS, Toronto, Canada, April 1988.

Sonntag VKH: Cervical Spine Stabilization. The 1988 Annual Meeting of the AANS, Toronto, Canada, April 1988.

Sonntag VKH, Mcwhorter M, Menezes AH: Congenital Lesions of the Cranio-cervical Junction. The 1988 Annual Meeting of the AANS, Toronto, Canada, April 1988.

Hadley MN, Sonntag VKH, Rekate H: The Infant Whiplash-shake Injury Syndrome: A Clinical and Pathological Study. The 1988 Annual Meeting of the AANS, Toronto, Canada, April 1988.

Dickman CA, Hadley MN, Sonntag VKH, Browner C: Neurosurgical Management of Acute Atlas-axis Combination Fracture: A Review of 25 Cases. The 1988 Annual Meeting of the AANS, Toronto, Canada, April 1988.

Pappas CTE, Gibson AR, Sonntag VKH: Anatomical Investigation of Bell's Cruciate Paralysis. The 1988 Annual Meeting of the AANS, Toronto, Canada, April 1988.

Sonntag VKH, Pappas C, Gibson A: the Neurological Basis for Bell's Cruciate Paralysis. 23rd Annual Meeting of the Rocky Mountain Neurosurgical Society, Lake Tahoe, Nevada, June 1988.

Sonntag VKH, White W, Liu SS: A Ten-Year Review. 23rd Annual Meeting of the Rocky Mountain Neurosurgical Society, Lake Tahoe, Nevada, June 1988.

Sonntag VKH, Hadley MN, Dickman CA: Interspinous Process Bone Graft Fusion of the Atlas-axis: Technical Considerations and Operative Results. 23rd Annual Meeting of the Rocky Mountain Neurosurgical Society, Lake Tahoe, Nevada, June 1988.

Sonntag VKH: Bell's Cruciate Palsy. The 1988 Kasdon Neurosurgical Research Forum, Rosehill, Ontario, July 1988.

Sonntag VKH: The Physiology and Epidemiology of Diving Injuries. The 1988 Regional Conference, Swimming Pool Safety and Childhood Drownings, Phoenix, Arizona, September 1988.

Sonntag VKH: Posterior Cervical Spine Stabilization. Congress of Neurological Surgeons, Seattle, Washington, September 1988.

Kelly DL, Maroon JC, Sonntag VKH: Cervical Spine Instability; Definition and Management. Congress of Neurological Surgeons, Seattle, Washington, September 1988.

Sonntag VKH: Approaches to the Thoracolumbar Spine. Congress of Neurological Surgeons, Seattle, Washington, September 1988.

Sonntag VKH: Bennett GJ, Finn S: Thoracolumbar Trauma-biomechanics, Pathophysiology and Treatment. Congress of Neurological Surgeons, Seattle, Washington, September 1988.

Sonntag VKH: Non-operative Management of Cervical Spine Injuries. Neuroscience Conference-Magovern Conference. Allegheny General Hospital, Pittsburgh, Pennsylvania, October 1988.

Sonntag VKH: Occiput-axis Trauma: Specific Management. American College of Surgeons 1988 Clinical Congress, Chicago, Illinois, October 1988.

Sonntag VKH: Thoracolumbar Spine (TH-L1) Trauma. American College of Surgeons 1988 Clinical Congress, Chicago, Illinois, October 1988.

Sonntag VKH, Graham TW, Zadrozny D, Harrington TR: Metabolic Demands of the Acute Spinal Cord Injured Patient. American College of Surgeons 1988 Clinical Congress, Chicago, Illinois, October 1988.

Sonntag VKH: Management of Cervical Spine Injury. First Annual Spine Workshop, Barrow Neurological Institute, Phoenix, Arizona, November 1988.

Presentations for 1987 (35)

Sonntag VKH: Medical Treatment of the Acute Spinal Cord Injured, Joint Section on Spinal Disorders, AANS/CNS, 3rd Annual Meeting, Boca Raton, Florida, January 1987.

Hadley MN, Dickman CA, Browner C, Sonntag VKH: Atlas Disorders, AANS/CNS, 3rd Annual Meeting, Boca Raton, Florida, January 1987.

Masferrer R, Kolb A, Sonntag VKH: Effects of Chymopapain on Tissue Cultures Derived from Herniated Nucleus Pulposus. Joint Section on Spinal Disorders, AANS/CNS, 3rd Annual Meeting, Boca Raton, Florida, January 1987.

Sonntag VKH (Visiting Professor): Management of Spinal Cord Injuries. University of Arizona, Tucson, Arizona, February 1987.

Sonntag VKH: Lumbar and Cervical Spinal Stenosis. 14th Annual Symposium, Barrow Neurological Institute, Neurology and Neurosurgery of the Aging, Scottsdale, Arizona, February 1987.

Sonntag VKH: Transoral Decompression of the Craniovertebral Junction. Special Pre-meeting Course, 39th Annual Meeting, Southern Neurosurgical Society, Kiawah Island Resort, Charleston, South Carolina, March 1987.

Sonntag VKH: Acute Management of Cervical Spine Trauma. Special Pre-meeting Course, 39th Annual Meeting, Southern Neurosurgical Society, Kiawah Island Resort, Charleston, South Carolina, March 1987.

Sonntag VKH: Posterior Stabilization of C2-T3. Special Pre-meeting Course, 39th Annual Meeting, Southern Neurosurgical Society, Kiawah Island Resort, Charleston, South Carolina, March 1987.

Sonntag VKH: Management of Thoracic and Lumbar Spine Trauma. Special Pre-Meeting Course, 39th Annual Meeting of Southern Neurosurgical Society, Kiawah Island Resort, Charleston, South Carolina, March, 1987.

Sonntag VKH: Surgical Decompression for Low Back Pain Disorders. Special Pre-meeting Course, 39th Annual Meeting, Southern Neurosurgical Society, Kiawah Island Resort, Charleston, South Carolina, March 1987.

Sonntag VKH: Future Advances in Spinal Surgery. Special Pre-meeting Course, 39th Annual Meeting, Southern Neurosurgical Society, Kiawah Island Resort, Charleston, South Carolina, March 1987.

Sonntag VKH, Green B, Hoff JT (Panelist): The Evaluation and Management of the Unstable Cervical Spine. Annual Meeting of the AANS, Dallas, Texas, May 1987.

Sonntag VKH: Treatment of Cervical Spine Injuries. The Texas Medical Association, 120th Annual Session. Houston, Texas, May 1987.

Sonntag VKH: Early Management of Cervical Spine Injuries. The Texas Medical Association, 120th Annual Session, Houston, Texas, May 1987.

Sonntag VKH: Anterior Approach to the Cervical Spine. The Texas Medical Association, 120th Annual Session, Houston, Texas, May 1987.

Sonntag VKH: Neuroscientists on Stamps. Kasdon Neurosurgical Research Forum. Scientific Program. San Ysidro Ranch, California, May 1987.

Rigamonti D, Pappas C, Bojanowski-Medina M, Liu SS, Johnson PC, Sonntag VKH, Spetzler RF: Hemangioblastomas. 22nd Annual Meeting, Rocky Mountain Neurosurgical Society, Deer Valley, Utah, June 1987.

Bloomfield SM, Sonntag VKH: Comparison of Twist-drill Craniostomy to Burr-hole Evacuation in the Treatment of Chronic Subdural Hematoma. 22nd Annual Meeting, Rocky Mountain Neurosurgical Society, Deer Valley, Utah, June 1987.

Graham TW, Posillico D, Harrington TR, Sonntag VKH: Acute Nutritional Demands of Spinal Cord Injured Patients. 22nd Annual Meeting, Rocky Mountain Neurosurgical Society, Deer Valley, Utah, June 1987.

Zabramski J, Sonntag VKH: Pediatric Spinal Cord Injuries Without Evidence of Radiographic Abnormality. 22nd Annual Meeting, Rocky Mountain Neurosurgical Society, Deer Valley, Utah, June 1987.

Dickman CA, Hadley MN, Sonntag VKH, Browner CM: Neurosurgical Management of Acute Atlas-axis Combination Fractures: A Review of 25 Cases. 22nd Annual Meeting, Rocky Mountain Neurosurgical Society, Deer Valley, Utah, June 1987.

Dickman CA, Hadley MN, Sonntag VKH, Browner CM: Neurosurgical Management of Acute Atlas-axis Combination Fractures: A Review of 25 Cases. 22nd Annual Meeting, Rocky Mountain Neurosurgical Society, Deer Valley, Utah, June 1987.

Sonntag VKH: Neuroscientists on Stamps. 22nd Annual Meeting, Rocky Mountain Neurosurgical Society, Deer Valley, Utah, June 1987.

Pappas CTE, Sonntag VKH, Harrington TR: Cervical and Lumbar Stenosis in the Elderly. 22nd Annual Meeting, Rocky Mountain Neurosurgical Society, Deer Valley, Utah, June 1987.

Sonntag VKH: Management of Acute Cervical Injury. Portland Adventist Medical Center, Portland, Oregon, July 1987.

Sonntag VKH: Acute Axis Fractures: Diagnosis and Treatment of 150 Patients. 8th European Congress of Neurosurgery, Barcelona, Spain, September 1987.

Sonntag VKH: Bloomfield SM: Comparison of Twist-drill Craniotomy of Burr-hole Evacuation in the Treatment of Chronic Subdural Hematoma. 8th European Congress of Neurosurgery, Barcelona, Spain, September 1987.

Sonntag VKH, Hadley MN: Atlas Fractures: Treatment and Long-term Results. 8th European Congress of Neurosurgery, Barcelona, Spain, September 1987.

Spetzler RF, Hadley MN, Sonntag VKH: The Transoral Approach to the Anterior Superior Cervical Spine: A Review of 26 Cases. 8th European Congress of Neurosurgery, Barcelona, Spain, September 1987.

Sonntag VKH, Geisler F, Mcwoirter M, Sybert G: Surgical Stabilization of the Unstable Cervical Spine. 37th Annual Meeting of CNS, Baltimore, Maryland, October 1987.

Menezes A, Larson S, Sonntag VKH: Clinical Management of Odontoid Fractures. 37th Annual Meeting of CNS, Baltimore, Maryland, October 1987.

Sonntag VKH: Approaches to Thoracolumbar Junction. 37th Annual Meeting, 37th Annual Meeting, Baltimore, Maryland, October 1987.

Dickman CA, Hadley M, Sonntag, VKH, Browner CM: Neurosurgical Management of Acute Atlas-axis Combination Fractures: A Review of 25 Cases. 37th Annual Meeting CNS, October 1987, Baltimore, Maryland.

Baldwin HZ, Sonntag VKH, Rekate H: Pineal Region Lesions: A Pediatric Series. Section of Pediatric Neurological Surgeons of the AANS 16th Winter Meeting, Chicago, Illinois, December 1987.

Hadley MN, Sonntag VKH, Pittman HW: Suprascapular Nerve Entrapment: A Summary of 9 Cases. Joint Section on Disorders of the Spine and Peripheral Nerves. 4th Annual Meeting AANS/CNS, Phoenix, Arizona, December 1987.

Presentations for 1986 (33)

Sonntag VKH (Visiting Professor): for Grand Rounds: Management of Pineal Area Tumors. University of Nevada, School of Medicine, Department of Internal Medicine, Reno, Nevada, January 1986.

Sonntag VKH (Visiting Professor): Presentation and Treatment of Chronic Subdural Hematomas. University of Nevada, School of Medicine, Department of Internal Medicine, Soda Springs, California, January 1986.

Sonntag VKH: Orthosis for the Injured Spine. Syllabus Neurotrauma 1986 AANS/CNS Joint Section on Trauma, Santa Barbara, California, January 1986.

Sonntag VKH: Neuro-Imaging of the Injured Spine. Syllabus Neurotrauma 1986, Joint Section on Trauma 1986 AANS/CNS, Santa Barbara, California, January, 1986.

Hadley MN, Zabramski JM, Rekate HR, Sonntag VKH: Pediatric Spinal Trauma. AANS/CNS Joint Section on Spinal Disorders, San Diego, California, February 1986.

Zabramski JM, Hadley MN, Rekate HR, Sonntag VKH: Pediatric Spinal Injury Without Fracture or Dislocation. AANS/CNS Joint Section on Spinal Disorders, San Diego, California, February 1986.

Zabramski JM, Hadley MN, Browner CM, Schiller W, Sonntag VKH: Cranial/Spinal Trauma in all-terrain-vehicle Injuries. AANS/CNS Joint Section on Spinal Disorders, San Diego, California, February 1986.

Bloomfield SM, Browner CM, Sonntag VKH: Traumatic Cervical Spine Subluxation Without Fracture: Review of 87 Cases. AANS/CNS Joint Section on Spinal Disorders, San Diego, California, February 1986.

Hadley MN, Hodak JA, Amos MR, Sonntag VKH: Three-Dimensional Computerized Tomography in the Diagnosis of Vertebral Column Pathology. AANS/CNS Joint Section on Spinal Disorders, San Diego, California, February 1986.

Hadley MN, Browner CM, Sonntag VKH: Neurosurgical Management of Thoracolumbar Junction Fractures. AANS/CNS Joint Section on Spinal Disorders, San Diego, California, February 1986.

Sonntag VKH: Spine and Spinal Cord Trauma. American College of Surgeons, Committee on Trauma, Advanced Trauma Life Support Course, Phoenix Baptist Hospital, Phoenix, Arizona, March 1986.

Sonntag VKH: Peripheral Nerve Entrapment Syndromes. AANS Annual Meeting, Scientific Program, Denver, Colorado, April 1986.

Hadley MN, Sonntag VKH, Amos R, Hodak JA: Three-Dimensional Computerized Tomography in the Diagnosis of Vertebral Column Pathology. AANS Annual Meeting, Denver, Colorado, April 1986.

Sonntag VKH: Pathophysiology and Management of Acute Spinal Cord Trauma from the Emergency Department to the Intensive Care Unit. Trauma Arts Festival, Lake Powell, Arizona, April 1986.

Hadley MN, Zabramski JM, Browner CM, Rekate H, Sonntag VKH: Pediatric Spinal Trauma. AANS Annual Meeting, Scientific Program, Denver, Colorado, April 1986.

Zabramski JM, Hadley MN, Browner CM, Schiller W, Young D, Sonntag VKH: Cranial/Spinal Trauma in all-terrain-vehicle Injuries. AANS Annual Meeting, Scientific Program, Denver, Colorado, April 1986.

Marano SR, Sonntag VKH, Spetzler RF: Neurological Complications After Penetrating and Blunt Trauma to the Vertebral Artery. AANS Annual Meeting, Scientific Program, Denver, Colorado, April 1986.

Sonntag VKH: Axis Fractures: A Comprehensive Review of Management and Treatment. Trends in Neurosurgery Symposium, Vienna, Austria, May 1986.

Sonntag VKH: Early Management of Cervical Spine Injuries. Trends in Neurosurgery Symposium, Vienna, Austria, May 1986.

Sonntag VKH: Neurosurgical Management of Thoracolumbar Junction Fractures. Trends in Neurosurgery Symposium, Vienna, Austria, May 1986.

Sonntag VKH: Management of Pineal Area Lesions. Neurosurgical Research Forum Meeting, Cape Cod, Massachusetts, May 1986.

Sonntag VKH: Three-Dimensional Computerized Tomography in the Diagnosis of Vertebral Column Pathology. Rocky Mountain Neurosurgical Society, 21st Annual Meeting, Keystone, Colorado, June 1986.

Sonntag VKH: Neurosurgical Management of Thoracolumbar Junction Fractures. Rocky Mountain Neurosurgical Society, 21st Annual Meeting, Keystone, Colorado, June 1986.

Sonntag VKH: Management of C1-2 Injuries (Rosedown) Congress of Neurological Surgeons, 36th Annual Meeting, New Orleans, Louisiana, September 1986.

Zabramski JM, Hadley MN, Browner C, Sonntag VKH: Spinal Cord Injury Without Radiographic Abnormality. Congress of Neurological Surgeons, 36th Annual Meeting, New Orleans, Louisiana, September 1986.

Hadley MN, Browner C, Williams FC, Sonntag VKH: A Surgical Subtype of Odontoid Type II Fractures (Type IIA). Congress of Neurological Surgeons, 36th Annual Meeting, New Orleans, Louisiana, September 1986.

Hadley MN, Spetzler RF, Martin NA, Sonntag VKH, Johnson PC: Comparative Transoral Dural Closure Techniques. Congress of Neurological Surgeons, 36th Annual Meeting, New Orleans, Louisiana, September 1986.

Sonntag VKH: Non-operative Management of Cervical Spine Injuries. Congress of Neurological Surgeons, 36th Annual Meeting, New Orleans, Louisiana, September 1986.

Sonntag VKH: Head Trauma. ATLS Provider Course, St. Joseph's Hospital and Medical Center, Phoenix, Arizona, October 1986.

Sonntag VKH: Medical Support in Acute Spinal Cord Injury, Midwest Regional Neurotrauma Seminar, Joint Section on Trauma AANS/CNS, Chicago, Illinois, November 1986.

Sonntag VKH: Surgery of Cervical Spine Injury: The Anterior Approach, Midwest Regional Neurotrauma Seminar, Joint Section on Trauma AANS/CNS, Chicago, Illinois, November 1986.

Sonntag VKH: Surgical Management of Thoracic and Lumbar Fractures, Midwest Regional Neurotrauma Seminar, Joint Section on Trauma, AANS/CNS, Chicago, Illinois, November 1986.

Hadley MN, Zabramski JM, Relate H, Sonntag VKH: Pediatric Spinal Trauma. Section of Pediatric Neurological Surgeons, AANS, 15th Annual Meeting, Pittsburgh, Pennsylvania, December 1986.

Presentations for 1985 (25)

Sonntag VKH: Head Trauma. USPHS Indian Hospital, Parker, Arizona, January 1985.

Marano SR, Sonntag VKH: Management of Bilateral Locked Facets of the Cervical Spine. AANS/CNS 1st Meeting of the Joint Section on Spinal Disorders, February 1985.

Hadley NM, Browner CM, Sonntag VKH: Axis Fracture, a Comprehensive Review of Management and Treatment in 107 Cases. AANS/CNS 1st Meeting of the Joint Section on Spinal Disorders, February 1985.

Sonntag VKH: Pineal Tumors. 12th Annual Symposium. Barrow Neurological Institute, Scottsdale, Arizona, February 1985.

Sonntag VKH: Spine and Spinal Cord Trauma. Winslow Memorial Hospital, Winslow, Arizona, March 1985.

Sonntag VKH: Suprascapular Nerve Palsy. The Society of Neurological Surgeons, 76th Annual Meeting in it's 65th Year, Phoenix, Arizona, May 1985.

Marano SR, Sonntag VKH: Vertebral Artery Trauma Secondary to Fractures and Fracture/Dislocations of the Cervical Spine. The Annual Meeting of the AANS, Atlanta, Georgia, April 1985.

Marano SR, Sonntag VKH: Management of Bilateral Locked Facets of the Cervical Spine. The Annual of the Meeting AANS, Atlanta, Georgia, April 1985.

Sonntag VKH: Spine and Spinal Cord Trauma. Yuma Regional Medical Center, Yuma, Arizona, May 1985.

Marano SR, Fischer DW, Gaines SC, Sonntag VKH: An Anatomical Study of the Superficial Temporal Artery. 76th Meeting of the Society of Neurological Surgeons, Phoenix, Arizona, May 1985.

Marano SR, Sonntag VKH: Management of Bilateral Locked Facets of the Cervical Spine. 76th Meeting of the Society of Neurological Surgeons, Phoenix, Arizona, May, 1985.

Sonntag VKH: An Anatomical Study of the Superficial Temporal Artery. 1st International Neurosurgical Summer Conference, Mombassa Kenya, Africa, June 1985.

Hadley MN, Browner CM, Sonntag VKH: Axis Fracture: A Comprehensive Review of Management and Treatment in 107 Cases. 1st International Summer Conference, Mombassa Kenya, Africa, June 1985.

Sonntag VKH: Traumatic Cervical Spine Subluxation Without Fracture: Review of 93 Cases. 1st International Neurosurgical Summer Conference, Mombassa Kenya, Africa, June 1985.

Sonntag VKH: Suprascapula Nerve Entrapment: A Report of 7 Cases. 1st International Neurosurgical Summer Conference, Mombassa Kenya, Africa, June 1985.

Sonntag VKH: Bilateral Locked Facets. Topics in Neurosurgery, Tape 305B, Neuroscience Publishing Company, Dallas, Texas, August 1985.

Sonntag VKH: Traumatic Cervical Spine Subluxation without Fracture: Review of 93 Cases. Neurosurgical Research Forum, Sante Fe, New Mexico, September 1985.

Sonntag VKH: Neuroclinical Testing. Arizona Worker's Compensation Claims Association (AWCCA) 1985 Seminar, Phoenix, Arizona, December 1985.

Sonntag VKH: Treatment of Chronic Subdural Hematoma (Moderator). 35th Annual Congress of Neurological Surgeons Meeting, Honolulu, Hawaii, October 1985.

Menezes AH, Seljeskog E, Sonntag VKH: Craniovertebral Junction Abnormalities, Joint Section On Spinal Disorders, 35th Annual Congress of Neurological Surgeons Meeting, Honolulu, Hawaii, October 1985.

Bloomfield SM, Browner CM, Sonntag VKH: Traumatic Cervical Spine Subluxation without Fracture: Review of 93 Cases. 35th Annual Congress of Neurological Surgeons Meeting, Honolulu, Hawaii, October 1985.

Hadley MN, Browner CM, Sonntag VKH: Management of Thoracolumbar Junction Fractures: A Review of 110 Cases. 35th Annual Congress of Neurological Surgeons Meeting, Honolulu, Hawaii, October 1985.

Sonntag VKH: Spinal Cord Trauma and Injuries. Neurological Seminar, Flagstaff Medical Center, Flagstaff, Arizona, November 1985.

Zabramski JM, Hadley MN, Browner CM, Rekate H, Sonntag VKH: Pediatric Spinal Cord and Vertebral Column Injuries. AANS Section of Pediatric Neurological Surgeons, 14th Annual Meeting, Houston, Texas, December 1985.

Rekate H, Shetter AG, Sonntag VKH: The Value of Early Re-operation in Pediatric Brain Tumor Surgery. AANS Section of Pediatric Neurological Surgeons, 14th Annual Meeting, Houston, Texas, December 1985.

Presentations for 1984 (11)

Fischer D, Gaines C, Marano S, Sonntag VKH: An Anatomical Study of the Superficial Temporal Artery. The Federation of Western Societies of Neurological Science, February 1984.

Sonntag VKH: Spine and Spinal Cord Trauma. Kingman Regional Hospital, Kingman, Arizona, March 1984.

Hadley MN, Browner CM, Sonntag VKH: Axis Fractures, a Comprehensive Review of Management and Treatment in 107 Cases. Congress of Neurological Surgeons, New York, New York, October 1984.

Sonntag VKH: Neurosurgical Considerations. Arizona Federation of Licensed Practical Nurses, Inc. 34th Annual Convention. Phoenix, Arizona, October 1984.

Murphy AR, Mulvahill D, Sonntag VKH: The Neurological Manifestations of the Shake-Whiplash Injuries in Infants. Child Neurological Society, Phoenix, Arizona, October 1984.

Marano SR, Fischer DW, Gaines C, Sonntag VKH: An Anatomical Study of the Superficial Temporal Artery. 7th International Symposium on Microsurgical Anastomoses for Cerebral Ischemia, Phoenix, Arizona, October 1984.

Sonntag VKH: Head Trauma. Yavapai Community Hospital, Prescott, Arizona, November 1984.

Marano SR, Sonntag VKH: Vertebral Artery Trauma Secondary to Fractures and Fracture/Dislocations of the Cervical Spine. The Cervical Spine Research Society, 12th Annual Meeting, December 1984.

Hadley MN, Sonntag VKH: Axis Fractures, a Comprehensive Review of Management and Treatment in 107 Cases. The Cervical Spine Research Society, 12th Annual Meeting, December 1984.

Marabi SR, Sonntag VKH: Management of Bilateral Locked Facets of the Lower Cervical Spine. The Cervical Spine Research Society, 12th Annual Meeting, December 1984.

Sonntag VKH: Emergency Management of Spinal Cord Injuries. Education Center Seminar Baptist Hospitals and Health Systems, December 1984.

Presentations for 1983 (1)

Sonntag VKH: Functional Presentations of Pituitary Adenomas. Annual Meeting of the Academy of Psychosomatic Medicine, 30th Annual Meeting, October 1983.

Presentations for 1981 (2)

Demakas JJ, Sonntag VKH, Waggener JD, Kaplan AM, Kelley JJ: Surgical Management of Pineal Area Tumor in Early Childhood. 18th Annual Meeting of the Federation of Western Societies of Neurological Science, February 1981.

Sonntag VKH: Transsphenoidal Hypophysectomy for Intractable Cancer Pain. Annual Meeting of the Arizona Medical Association, May 1981.

Presentations for 1980 (1)

Sonntag VKH, Kelley JJ: Adult Shunt Ascites. Annual Meeting of the Arizona Medical Association, April 1980.

Presentations for 1976 (1)

Sonntag VKH, Stein BM, Yuan R: Presentation and Treatment of Intracranial Giant Aneurysm. New England and New York Neurological Surgery Meeting, October 1976.

Presentations for 1974 (1)

Birkenfeld R, Romanul F, Sonntag VKH, Case Stein BM: Intracerebral Hematoma presenting with Total Deafness of Cortical Origin: Report with Pathological Certification. New England and New York Neurosurgical Society Meeting, October 1974.

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