



CURRICULUM VITAE

Name: **RICHARD T. HOLT, M.D.**

Birthdate: December 20, 1947

Education: University of Tennessee, Knoxville
B. S. Industrial Engineering, 1970

University of Tennessee, Memphis
M.D. December 1973

Internship: University of Tennessee Memorial and
Research Center, Knoxville, Tennessee
Medicine Internship 1/74 - 12/74

Associated with Valentine Schultz Clinic
Newport, Tennessee as a General Practice
Physician 1/75 - 6/75

Residency: Charlotte Memorial Hospital and
Medical Center
Charlotte, North Carolina
Internal Medicine - Junior Assistant
Resident 7/75 - 6/76

Charlotte Memorial Hospital and
Medical Center
Charlotte, North Carolina
Orthopaedic Surgery Resident
7/76 - 6/80

Fellowship: Spine Surgery
Kosair Hospital
Louisville, Kentucky
7/80 - 6/81

Practice: Orthopaedic Associates, PSC
Louisville, Kentucky
7/81 - 8/90

Spine Institute for Special Surgery
Louisville, Kentucky
9/90 - 2/91

Spine Surgery, PSC
Louisville, Kentucky
3/91 – 7/31/12

Kentucky One Health Spine Surgery Associates
Louisville, Kentucky
8/12 - 7/31/17

Licenses: Kentucky # 20867 reciprocity 7/80
North Carolina #R20015 reciprocity 6/75
South Carolina #7687 reciprocity 6/75
Tennessee #MD8540 Examination 1/74
Indiana #01039911 reciprocity 12/91
Louisiana #10939R reciprocity 9/94
Missouri #107176 11/94
Only Kentucky and Indiana current

Certification: American Board of Orthopaedic Surgery
July 1983
American Board of Spine Surgery Diplomate
November 17, 2007 – December 31, 2017

Patent: Intervertebral Staple
Patent No. 5,395,372
Issue Date: March 7, 1995

Societies: American College of Spine Surgery
American Medical Association
Clinical Orthopaedic Society
C-D International Study Group
Groupe International CD

Jefferson County Medical Association
Kentucky Medical Society
Kentucky Orthopaedic Society
Kentucky State Medical Association
Louisville Orthopaedic Society
Scoliosis Research Society
Southern Medical Association
Southern Orthopaedic Association
Spine Society of Australia
North American Spine Society

Past email Active or

Courtesy Staff:

Jewish Hospital
Kosair Childrens' Hospital
Norton Hospital
Norton Audubon Hospital
Norton Suburban Medical Center
Norton Medical Pavilion
Baptist Hospital East
Veterans Administration Hospital
Clark Memorial Hospital
Floyd Memorial Hospital
Ss. Mary & Elizabeth Hospital
Pinelake Regional Hospital
Jewish Hospital – Shelbyville
Tulane University Hospital
Kindred Hospital Louisville
Regional Medical Center – Madisonville, Kentucky

Other:

Home of the Innocents
Hazelwood ICF/MR
Cedar Lake Lodge

Awards:

Jericho Friend Award
Cedar Lake Lodge, LaGrange, Kentucky
May, 2012

“20 Years of Service” Award
Hazelwood ICF/MR, Louisville, Kentucky
2011

Appointments:

President, American College of Spine Surgery

May 2008 – June 2009

Assistant Clinical Professor
Division of Orthopaedic Surgery
University of Kentucky School of Medicine
May 1995 – current

Assistant Clinical Professor
Department of Orthopaedic Surgery
University of Louisville School of Medicine
Louisville, Kentucky
1999 - 2003

Member, Professional Advisory Board
Scoliosis Association, Inc.
1993 - current

Clinical Professor
Department of Orthopaedics
Tulane University School of Medicine
New Orleans, Louisiana
1991 - 2005

Staff Physician
Scoliosis Clinic
Barren River District Health Department
Bowling Green, Kentucky
1991 - current

Assistant Professor
Department of Orthopaedics
University of Louisville School of Medicine
Louisville, Kentucky
1987 - 1990

Clinical Assistant Professor
Department of Orthopaedics
University of Louisville School of Medicine
Louisville, Kentucky
1991 – 1993

Co-Director
Kenton Leatherman Spine Center Norton Hospital

Louisville, Kentucky
1985 – 1990

Director of The Spine Service
Humana Hospital University
Louisville, Kentucky
1985 - 1990

Staff Physician Scoliosis Clinic
Kentucky Commission for Handicapped Children
Louisville, Kentucky
1981 - 1990

Vice President
Groupe International C-D
Paris, France
1986 - 1990

Chairman, Exhibit Committee
Scoliosis Research Society
1990

Chairman, Fellowship Committee
Scoliosis Research Society
2000 – 2002

FDA RESEARCH PROJECTS

SB Charite III Intervertebral Dynamic Disc Spacer, 2000 - 2005
Implex Hydrocel Cervical Fusion Device – July, 2001 – 2002
Implex Hedrocel Anterior Lumbar Fusion Device – July, 2001 - 2002
Synthes PLIF Allograft Spacer – March, 2001 - 2002
Infix Interbody Fusion System Study – Arm II, 2000 – November, 2001
PROCRT (Epoetin Alfa) Administered Perioperatively vs. the Standard of Care in Blood Conservation in Subjects Undergoing Major Elective Spinal Surgery 2000-2001
Orthofix Cervical-Stim Study, 1999
DePuy Acromed Titanium Surgical Mesh (TSM) Clinical Study, 1997 - 1999
Louisville Side Saddle (LSS) Spine System, 1992
Utilization of COLLAGRAFT Bone Graft Substitute in the Treatment of Lumbar Diseases, 1990
PWB Spinal Instrumentation Study, 1989

MEETINGS ATTENDED

Regional Review Course in Hand Surgery Indianapolis, Indiana	October, 1982
Back to Basics Spine Conference Orlando, Florida	March, 1983
Pediatric Orthopaedic Symposium Shriner's Hospital Lexington, Kentucky	March, 1983
Chymopapain Symposium Louisville, Kentucky	May 1983
Cook County Graduate School Orthopaedic Review Chicago, Illinois	May 1983
Maine Orthopaedic Review Colby College Waterville, Maine	June 1983
Scoliosis Research Society 1984 Annual Meeting Co-author of two papers presented at this meeting Orlando, Florida	September, 1984
Oscar Miller Day Miller Clinic Charlotte Memorial Hospital and Medical Center Charlotte, North Carolina	September 1984
Practical Hoffman Fixation University of Louisville Louisville, Kentucky	November, 1984
American Academy of Orthopaedic Surgeons Annual Meeting Las Vegas, Nevada	January 1985
Second International CD Spine Meeting Paris, France	June 1985

Orthopaedic Grand Rounds Wright State University Visiting Professor Miami, Ohio	July 1985
Scoliosis Research Society Twentieth Annual Meeting Co-Author of two papers presented at this meeting Coronado, California	September, 1985
Sixth Annual Kosair Spine Symposium The Natural History of Scoliosis and Instrumentation Hands on Instructor Louisville, Kentucky	November, 1986
Cervical Spine Research Society Instructional Course West Palm Beach, Florida	December, 1986
Scoliosis Research Society 1987 Annual Meeting Co-Author of two papers presented Vancouver, Canada	September, 1987
Scoliosis Research Society Tutorial, Adult Spinal Deformities Toronto, Ontario, Canada	September, 1987
The Adult Spine: Current Concepts and Techniques American Association of Orthopaedic Surgeons Nashville, Tennessee	October, 1987
3 D Imaging in Medicine Hospital of The University of Pennsylvania Philadelphia, Pennsylvania	November, 1987
Kaneda Device Study Group Miami, Florida	February, 1988
Orthopaedic Pathology Radiology Review Course 1988 Orthopaedic Hospital of Charlotte Charlotte, North Carolina	May 1988
Luque Interpeduncular Segmental Fixation Course Orlando, Florida	July 1988

Magnetic Resonance Symposium Orthopaedic Magnetic Resonance Applications Jewish Hospital Louisville, Kentucky	July 1988
Scoliosis Research Society 1988 Annual Meeting Co-Author of paper presented Baltimore, Maryland	September, 1988
Scoliosis Research Society and North American Spine Society Pedicle Fixation of The Lumbar Spine Chicago, Illinois	September, 1988
Texas Scottish Rite Hospital TSRH Instrumentation Dallas, Texas	March, 1989
Scoliosis Research Society 1989 Annual Meeting combined with European Spinal Deformities Society Co Author of paper presented Amsterdam, Netherlands	September, 1989
Scoliosis Research Society Tutorial CD Instrumentation - Advanced Course Director and Tutor - Two Day Course Louisville, Kentucky	November, 1989
Cervical Spine Research Society Annual Meeting New Orleans, Louisiana	17th December, 1989
Chairman of Poster Exhibits Scoliosis Research Society Annual Meeting Honolulu, Hawaii	September, 1990
Danek Spinal Scope Initial Evaluator Chicago, Illinois	December, 1990
Chairman and Instructor Luque Course Hands On Course and Workshop Jewish Hospital	

Louisville, Kentucky	February, 1991
SpinalScope Meeting Danek Company Memphis, Tennessee	March 1991
Program Chairman Instrumentation in Spine Surgery Hands-On and Workshop Jewish Hospital Louisville, Kentucky	April 1991
Moderator Seventh Annual G.I.C.D. Minneapolis, Minnesota	September, 1991
The Cervical Spine Research Society Third Instructional Course on Principles of Evaluation and Management Philadelphia, Pennsylvania	December, 1991
Moderator - Scientific Portion Second Annual Tulane-Louisville	
Spine Fellows Meeting Louisville, Kentucky	October, 1992
Danek's Spinal Endoscopy Program The Advanced Orthopaedic Center Richmond, Virginia	May, 1993
Scoliosis Research Society 28th Annual Meeting, Dublin, Ireland	September, 1993
Isola Senior Faculty Meeting Panel Chicago, Illinois	March, 1994
The Graduate Hospital Visiting Surgeon Program Arthroscopic Microdiscectomy Procedure Observed with Dr. P. Kamdin Philadelphia, Pennsylvania	April, 1994
Cervical Spine Trauma Practical Anatomy and Surgical Technique Workshop	

St. Louis University School of Medicine	
St. Louis, Missouri	May, 1994
Professor J. Harms	
Visited & observed Surgery - Transoral Approach	
Karlsbad, Germany	August, 1994
Aspects of AIDs	
Audubon Regional Medical Center	
Louisville, Kentucky	August, 1994
SpineTech, Inc. Meeting	
Minneapolis, Minnesota	September, 1994
AO/ASIF Advanced Spinal Techniques Course	
Bermuda	October, 1994
Tulane-Louisville Spine Society	
Academic Day	
Miami, Florida	November, 1994
MOSS-Miami Spinal Instrumentation Meeting	
Miami Beach, Florida	November, 1994
Total Spine: Advanced Concepts and Constructs	
Cancun, Mexico	January, 1995
Isola Study Group Meeting	
Chicago, Illinois	April, 1995
Occipital Cervical Fixation Course	
Dr. Jurgen Harms	
St. Louis, Missouri	October, 1995
First Advance Deformity Course for U.S. AcroMed Sales Representatives	
Cleveland, Ohio	April, 1996
Lumbosacral Fusion Course	
Dr. Jurgen Harms	
St. Louis, Missouri	October, 1996
Spine Residents and Fellows Conference	
Faculty	
Snowbird, Utah	April, 1997

Innovative Spine Surgery Techniques Faculty, Practical Anatomy Lab St. Louis, Missouri	September, 1997
Innovative Spine Surgery Techniques Faculty. Practical Anatomy Lab St. Louis, Missouri	August, 1998
Medical Advisory Board Meeting SULZER-Howmedica Tucson, Arizona	January, 1999
Scoliosis Research Society Annual Meeting San Diego, California	September, 1999
North American Spine Society Annual Meeting Chicago, Illinois Seminar Autologous Platelet Gel as a Fusion Enhancer The Current Status of Artificial Disc and Disc Replacement Louisville, Kentucky	October, 1999 December, 1999
SB Charite III Intervertebral Dynamic Disc Spacer Investigator Meeting Dallas, Texas	March, 2000
AO ASIF Spine Course Captiva Island, Florida	September, 2000
Degenerative Spinal Diseases: Selecting Surgical Techniques Napa Valley, California	September, 2000
North American Spine Society Annual Meeting New Orleans, Louisiana	October, 2000
Scoliosis Research Society Annual Meeting Cleveland, Ohio	September, 2001
Current Concepts and Controversies in Spinal Deformities Meeting Paris, France	April, 2002
Tulane – Louisville Spine Meeting	

Louisville, Kentucky	May, 2002
Scoliosis Research Society Annual Meeting Seattle, Washington	September, 2002
Link Spine Investigators Meeting Orlando, Florida	September, 2002
Spinal Concepts Cervical Advisory Board Meeting Louisville, Kentucky	June, 2003
MAST Hands-on Course Memphis, Tennessee	December, 2003
North American Spine Society Annual Meeting Chicago, Illinois	October, 2004
Advisory Board EXACTECH Meeting Chicago, Illinois	December, 2004
Advisory Board NEXGEN Meeting Whippany, New Jersey	January, 2005
Advisory Board Spinal Concepts Meeting Dallas, Texas	January, 2005
Spine Arthroplasty Society Annual Meeting New York City, New York	May, 2005
Scoliosis Research Society Annual Meeting Miami, Florida	October, 2005
“Thoracic Insufficiency Syndrome” Meeting Synthes Spine Philadelphia, Pennsylvania	December, 2005
Visitation with Professor Jurgen Harms Karlsbad, Germany	February, 2006
Spine Arthroplasty Society Annual Meeting Montreal, Canada	May, 2006
AO ASIF Developmental Meeting	

Bermuda	August, 2006
NASS Annual Meeting Seattle, Washington	September, 2006
Advisory Board Meeting NEXGEN, Inc. Parsippany, New Jersey	June, 2007
Advisory Board Meeting Facet Solutions, Inc. Boston, Massachusetts	June, 2007
NASS Annual Meeting Austin, Texas	October, 2007
Scoliosis Research Society Annual Meeting Salt Lake City, Utah	September, 2008
American College of Spine Surgery Annual Meeting Newport Beach, California	June, 2009
American College of Spine Surgery Annual Meeting Newport Beach, California	June, 2010
American College of Spine Surgery Annual Meeting Las Vegas, Nevada	June, 2011
Scoliosis Research Society Annual Meeting Louisville, Kentucky	September, 2011
North American Spine Society Annual Meeting Dallas, Texas	October, 2012
Minimally Invasive Surgery: Advanced Concepts and Techniques Henderson, NV	May, 2013

PRESENTATIONS

- "Fracture Stabilization"
First Annual Kosair Spine Symposium
Louisville, Kentucky September, 1981
- "Luque Rod Spinal Instrumentation for Unstable Thoracolumbar Fracture"
Kentucky Medical Association
Lexington, Kentucky September 1982
- "Zielke Procedure"
"Electrical Stimulation for treatment of idiopathic scoliosis"
Second Annual Kosair Spine Symposium
Spine Deformities and Acute Injuries
Louisville, Kentucky September 1982
- Seminar in the Treatment of Spine Deformity
Bowling Green, Kentucky September 1982
- "Zielke Instrumentation"
"Experience with Electrical Stimulation for Treatment of Idiopathic Scoliosis"
Scoliosis Research Society Annual Meeting
Denver, Colorado September 1982
- "State of the Art for Analysis and Treatment of Spine Deformities and Lesions"
American Academy of Orthopaedic Surgeons
Continuing Education Course
Louisville, Kentucky May 1983
- "HBLL for Improved Stabilization and Derotation"
Third Annual Kosair Spine Symposium
Comprehensive Care of Spine Deformities
Louisville, Kentucky December 1983
- "HBLL – 50 cases"
Fourth Annual Kosair Spine Symposium
What's New in European Spine Centres and Introduction to The CD System
Louisville, Kentucky September 1984
- "New Horizons in Spine Surgery"
Norton Nursing Seminar
Louisville, Kentucky September 1984
- "Instrumentation for Myelodysplasia"

<p>Second Symposium on Spina Bifida University of Cincinnati Cincinnati, Ohio</p>	<p>November 1984</p>
<p>"Osteoporosis" Kentucky Association of Homes For The Aging Louisville, Kentucky</p>	<p>April 1985</p>
<p>"Results of Zielke Instrumentation in the treatment of idiopathic scoliosis" Speaker, Round Table Moderator and Hands-On Instructor Fifth Annual Kosair Spine Symposium Spinal Instrumentation Louisville, Kentucky</p>	<p>December 1985</p>
<p>Surgical Grand Rounds Bowman Gray School of Medicine Visiting Professor Winston - Salem, North Carolina</p>	<p>January 1986</p>
<p>The Twelfth Oleika Shrine Lecture Shriners Hospital Lexington, Kentucky</p>	<p>March 1986</p>
<p>American Neurosurgical Society University of Louisville Louisville, Kentucky</p>	<p>May 1986</p>
<p>"CD, The Louisville Experience" Third Annual International CD Spine Meeting Paris, France</p>	<p>June 1986</p>
<p>"Louisville Experience with CD" "CD for Unstable Fracture" Scoliosis Research Society 1986 Annual Meeting Hamilton, Bermuda</p>	<p>September 1986</p>
<p>"Problem Fractures" University of Louisville Louisville, Kentucky</p>	<p>October 1986</p>
<p>"Scoliosis Surgery Instrumentation" Surgical Grand Rounds University of Louisville</p>	

Louisville, Kentucky Scoliosis Surgery" Surgical Grand Rounds University of Cincinnati Visiting Professor Cincinnati, Ohio	March 1987 "Current Indications for May 1987
"CD in Cervical Instability" "CD in Fractures" Fourth Annual International CD Meeting Miami Beach, Florida	 May 1987
"Scoliosis and Spine Deformities" American Chiropractic College of Radiology 1987 International Workshop Knoxville, Tennessee	 October 1987
"Indications for Two Stage Surgery in Adult Spine Deformities" "Indications for Two Stage vs. One Stage" Seventh Annual Kosair Spine Symposium Louisville, Kentucky	 November 1987
"How to Teach CD Technique" Speaker and Moderator Groupe International CD Paris, France	 January 1988
"CD System for Spine Fractures" Ohio State University Grand Rounds and Visiting Professor Columbus, Ohio	 February 1988
"Cell Saver - Advantages and Disadvantages" Comprehensive Autologous Transfusion Norton Hospital and University of Louisville Louisville, Kentucky	 April 1988
"CD Instrumentation in The Treatment of Right Thoracic Scoliosis" "New Possibilities with CD in Spinal Pathology" Speaker and Instructor Fifth International Congress CD Instrumentation Paris, France	 June 1988
"Spinal Instrumentation - Indications for Use" Nursing Education Department	

Norton Hospital Louisville, Kentucky	July 1988
"Nutrition and Cerebral Palsy" Eighth Annual Kosair Spine Symposium Spine Deformities and Instrumentation - Director Speaker and Hands on Instructor Louisville, Kentucky	November 1988
"Anterior and Posterior Surgery for Fractures of The Thoracolumbar Spine" "CD Technique for Scoliosis" "Zielke Instrumentation" Korean Spine Society Annual Meeting Seoul, Korea	November 1988
"Congenital Spine Deformities" River Cities Chapter of National Association of Orthopaedic Nurses Back of The Future Workshop Norton Hospital Louisville, Kentucky	November 1988
Neoplasm Conference Norton Hospital Case Presentation Louisville, Kentucky	December 1988
"Spine Fractures" Physical Therapy Students University of Louisville Louisville, Kentucky	December 1988
"Introduction to CD Instruments" "CD Applied to Thoracic Scoliosis" "Complex Scoliosis Problems" "CD for Low Back Problems" "CD for Spinal Trauma" CD Workshop Meeting Adelaide, Australia	August 1989
"Spinal Stability" Facet Club Meeting Adelaide, Australia	August 1989

"An Analysis of 107 Single Stage Anterior and Posterior Spine Surgery" Sixth Annual International Conference CD Instrumentation Monte Carlo, Monaco	September 1989
"Spine Fractures" Physical Therapy Students University of Louisville Louisville, Kentucky	October 1989
"Surgical Indications/Results in Pediatric Scoliosis" "Surgical Treatment in Adult Scoliosis" Blount - Schmidt Spinal Symposium Milwaukee, Wisconsin	October 1989
"Spinal Cord Monitoring" "CD for Spinal Deformity - History and Development" "Use of Zielke Instrumentation" "Inflammatory Arthritis, Ankylosing Spondylitis" Moderator - Thoracolumbar Fractures Spinal Deformities Update, Albany Medical College Albany, New York	October 1989
Spine Instrumentation Tutorial Director and Tutor Louisville, Kentucky	January 1990
"Zielke Instrumentation" "CD Instrumentation" Spine Instrumentation Update Charlotte Memorial Hospital and Research Center Speaker and Hands On Instructor Charlotte, North Carolina	January 1990
Forsythe Hospital Visiting Professor Winston Salem, North Carolina	March 1990
"CD Applied to Kyphosis" "CD in Low Back Problems" "CD in Salvage Procedures" First Asian CD Workshop Speaker and Hands On Instructor Singapore	May 1990

"Treatment of Thoracolumbar Spine Trauma"
 "Surgical Treatment of Kyphosis"
 "Selection Fusion Levels for Surgical Treatment of Scoliosis with CD Instrumentation"
 Orthopaedic Section
 Puerto Rico Medical Association Annual State Convention
 San Juan, Puerto Rico August 1990

"Adult Scoliosis"
 "Reconstructive Problems"
 "Hook Plans"
 Texas Scottish Rite Hospital Spinal Course
 Kauai, Hawaii September 1990

"Stabilization Techniques for Lumbar Spine Instability Problems"
 Bluegrass Orthopaedic Society
 Lexington, Kentucky October 1990

Scoliosis Research Society Tutorial
 CD Instrumentation – Comprehensive
 Director and Tutor
 Louisville, Kentucky November 1990

"CD Hook Patterns for Scoliosis, Kyphosis and Fractures"
 G.I.C.D. - U.S.A.
 Los Angeles, California November 1990

TSRH Instrumentation Tutorial
 Sponsored by POSNA
 Speaker and Case Discussor
 Dallas, Texas December 1990

"Indications for Arthrodesis"
 "Indications for Instrumentation"
 "Pedicle Anatomy"
 "Biomechanics of Bone Screws"
 "Fusion Technique"
 "Instrumentation Technique"
 Medical College of Virginia
 Virginia Commonwealth University
 Case Presentations and Hands On Instructor
 Richmond, Virginia January 1991

"Zielke"

"CD"
 Spine Instrumentation Update
 Hands On Course for Residents
 Carolinas Medical Center
 Miller Orthopaedic Clinic
 Charlotte, North Carolina
 January 1991

"Current Hook Patterns"
 "Complications - Types, Cause and Treatment"
 G.I.C.D. - U.S.A. Faculty
 Dallas, Texas
 February 1991

"Methods Available for Treatment of Adult and Adolescent Lumbar Scoliosis"
 "Surgical Treatment of Thoracolumbar and Lumbar Fractures"
 Spinal Outlook
 Asheville, North Carolina
 April 1991

"Current Hook Patterns"
 "An Alternate Approach"
 "Complications - Type, Cause and Treatment"
 G.I.C.D. - U.S.A. Faculty
 Chicago, Illinois
 April 1991

"Current Hook Patterns"
 "An Alternative Approach"
 "Complications - Type, Cause and Treatment"
 G.I.C.D. - U.S.A. Faculty
 Philadelphia, Pennsylvania
 June 1991

"Current Concepts in Spinal Fixation and Scoliosis"
 Current Orthopaedic Concepts
 American Academy of Orthopaedic Surgeons
 Chattanooga, Tennessee
 June 1991

Heinig Society
 Case Presentations
 Savannah, Georgia
 August 1991

"Spine Fractures"

Physical Therapy Students
University of Louisville
Louisville, Kentucky August 1991
"Instruments"

Isola Spinal Implant Principles and Practice
Clinical Presentations and Work Shop
Kansas City, Missouri September 1991

"CD Instrumentation in Idiopathic Scoliosis"
"Vertebral Corpectomy in Treatment of Severe Rigid Spinal Deformities"
"Hook Patterns for Idiopathic Scoliosis"
Scoliosis Research Society Annual Meeting
Minneapolis, Minnesota September 1991

First Annual Tulane – Louisville Fellows Meeting
Tulane University
Visiting Professor and Moderator
New Orleans, Louisiana October 1991

"Implants and Tools"
Advanced Spinal Instrumentation for Degenerative Disease - The Isola System
University of Miami School of Medicine Department of Orthopaedics and Rehabilitation
Hands-On - Transpedicular Vertebrectomy
Miami, Florida March 1992

"Complications and Pitfalls" and "Scoliosis"
First Annual Spine Symposium: A Contemporary Update on Disorders of the Spine
HCA Center for Research Education
Nashville, Tennessee March 1992

"Anatomy of Pedicular Instrumentation and Surgical Technique"
"Etiology, Detection and Treatment of Lumbar Pseudoarthrosis"
The Lumbar Spine: Surgical Treatment and Instrumentation
University of Texas Health Science Center
San Antonio, Texas March 1992

"Neurologic Injury"
"Major Spondylolisthesis"
"Infection - Acute, Late"
"Pseudoarthrosis"
"The Osteopenic Patient"
"Bone Graft Substitutes"
American Academy of Orthopaedic Surgeons
Current and Controversial Problems for The Spine Surgeon: An Advanced Course.

Miami, Florida	April, 1992
"Degenerative Lumbar Scoliosis" Columbia Orthopaedic Society Columbia, South Carolina	April 1992
Pedicle Fixation of the Lumbar Spine Techniques in Pedicle Screw Insertion Hands on Lab When to Use Pedicle Screws - Discussor Infection, Pseudoarthrosis, Degeneration Above or Below the Fusion - Discussor Anterior versus Posterior Lumbar Interbody Fusion: Logistics and Problems - Discussor Scoliosis Research Society and North American Spine Society Phoenix, Arizona	April 1992
"Clinical Applications - Trauma" "Clinical Applications - Scoliosis and Related Deformities" Isola Spinal System: Principles and Practice University of Kansas Medical Center Kansas City, Kansas	July 1992
"Lumbar Degenerative Disc Disease" University of Mississippi Medical Center Visiting Professor Jackson, Mississippi	October 1992
"Galveston Bend vs. Iliac Screws" Spine Symposium Jewish Hospital, Course Chairman Louisville, Kentucky	November 1992
South Broward Hospital District TSRH Tutorial - Hands On Visiting Professor Hollywood, Florida	November 1992
"Management of Idiopathic Scoliosis" "Fracture Fixation Devices" Loyola University Visiting Professor Maywood, Illinois	November 1992
St. Louis University School of Medicine	

Practical Anatomy and Surgical Technique Workshop
Thoracolumbar Spine Surgery
St. Louis, Missouri

January 1993

"Why Do Instrumented Fusions?"
"Are Plates a Good Alternative to Rods?"
"Why Dynalok?" and Case Presentation
Danek Group - National Sales Meeting
Memphis, Tennessee

January 1993

Visiting Surgeon and Lecturer
Rehabilitation Institute for Handicapped and Disabled
Guest Surgeon at Dacca Medical College
Medical Volunteer, Bangladesh
Dacca, Bangladesh

February, 1993

"Myelomeningocele"
Wake Forest University Bowman Gray School of Medicine
Visiting Professor
Surgical Demonstration - Adult Scoliosis
Winston-Salem, North Carolina

March 1993

"Techniques in Pedicle Screw Insertion"
"Dynalok Fixation System"
"Complications and Problems"
SRS/NASS Pedicle Fixation of the Lumbar Spine and Other Advanced Techniques
Faculty and Speaker
Orlando, Florida

May 1993

"Degenerative Disorders: Preoperative planning, intraoperative execution, outcome, and problem solving"
"Deformity: Preoperative planning, intraoperative execution, outcome, and problem-solving from several different vantage points"
Surgical Management of Spinal Deformity and Mechanical Insufficiency: with Emphasis on the Isola Spinal Implant System
Kansas City, Missouri

July 1993

"How to Continue to Learn"
Tulane-Louisville Spine Society Meeting
Sante Fe, New Mexico

November 1993

"Spine Surgery" Bullitt Lick Middle School Presentation to sixth grade science class Bullitt County, Kentucky	November 1993
Visiting Surgeon and Lecturer Rehabilitation Institute for Handicapped and Disabled Guest Surgeon at Dacca Medical College Medical Volunteer, Bangladesh Dacca, Bangladesh	February 1994
Visiting Surgeon and Lecturer City Hospital #67, Moscow Burdenko Neurosurgical Institute Academy of Medical Science, Russia	September 1994
"Kyphosis" Department of Orthopaedic Surgery University of Louisville Louisville, Kentucky	October 1994
Presentation/Workshop EBI Medical Systems Parsippany, New Jersey	January 1995
"Posterior Constructs: Hook & Screw Constructs" "Anterior vs. Posterior Instrumentation - Thoracolumbar and Lumbar Curves" "Maintenance and Correction of Sagittal Plane Iatrogenic Problems" Total Spine: Advanced Concepts and Constructs Cancun, Mexico	January 1995
Visiting Surgeon and Lecturer Rehabilitation Institute for Handicapped and Disabled Guest Surgeon at Dacca Medical College Medical Volunteer, Bangladesh Dacca, Bangladesh	February 1995
Microdiscectomy Instructional Course Hal Matthews, M.D. Richmond, Virginia	April 1995
2nd Isola Study Group Meeting Corpectomy for Scoliosis Chicago, Illinois	April 1995

Ft. Wayne Orthopaedic Society
 Grand Rounds
 Parkview Memorial Hospital
 Ft. Wayne, Indiana April 1995

“Perspective: Place of both Anterior and Posterior Approaches for Scoliosis”
 “Place of Vertebrectomy in Deformity - Technique”
 “Pedicule Fixation in 1995. Indications, Technique, Complications”
 “Spinal Stenosis - Lumbar Decompression, Fusion?”
 Current Concepts in Spinal Surgery
 Fiji Islands August 1995

“Current Status of Pedicle Screws”
 Kentucky Orthopaedic Society
 Lexington, Kentucky September 1995

“The Burst Fracture: Surgical Techniques”
 The Injured Spine: A Spinal Trauma Symposium
 Pittsburgh, Pennsylvania September 1995

Training for Scoliosis School Screening
 Audubon Regional Medical Center
 Louisville, Kentucky October 1995

“Thoracolumbar Fractures”
 “Adult Scoliosis”
 Basic Principles of the Treatment of Spinal Deformity: Disorders of the Adult Spine
 Cleveland, Ohio November 1995

“Vertebrectomy in Deformity.. Indications and Technique”
 “Spinal Stenosis...Lumbar decompression, Where to do instrumented fusion”
 “Concept of Fracture Treatment”
 Current Concepts of Spinal Instrumentation
 San Francisco, California December 1995

“Spinal Deformities”
 Intermediate Spine Training Class, Synthes Spine
 Paoli, Pennsylvania February 1996

Advanced Technique in Spinal Surgery
 “Vertebrectomy in Spinal Deformity”
 “Pedicule Fixation – 1996 – Indications & Contraindications”
 Keystone, Colorado March 1996

“Surgical Treatment of Scoliosis in Patients with Cerebral Palsy”
 Tulane-Louisville Fellows Meeting
 Atlanta, Georgia April 1996

“Surgical Treatment of Scoliosis in Patients with Cerebral Palsy”
 Fourth Isola Study Group Meeting
 Chicago, Illinois May 1996 “Planning & Execution for de novo
 Degenerative Scoliosis”
 “Foraminal PLIF in the Lumbar Spine”
 Current Concepts of Spinal Instrumentation
 Washington, D.C. May 1996

“Anterior Lumbar Approach: ALIF”
 “Corpectomy with Reconstruction and Posterior Instrumentation and/or Anterior
 Instrumentation”
 3rd International Meeting on Advances Spine Techniques
 Munich, Germany June 1996

Risser Memorial Lecturer, Los Angeles Orthopaedic Hospital
 “Selection of Fusion Levels for Scoliosis Surgery”
 ”Lumbar Fusions: Indications and Techniques”
 “Instrumentation for Spine Surgery”
 Los Angeles, California July 1996

Contemporary Issues of Spinal Reconstruction
 “Vertebrectomy in Deformity”
 “PLIF in the Lumbar Spine...The Transforaminal Approach”
 “Planning for de novo Degenerative Scoliosis”
 “Spinal Stenosis...Decompression with/without Instrumented Fusion”
 Vancouver, B.C. Canada August 1996

Future Challenges to Spine Surgery
 “Planning & Execution for de novo Degenerative Scoliosis”
 New Orleans, Louisiana September 1996

“Fusion Level Selection for Idiopathic Scoliosis Surgery”
 “Technique for ALIF and Transforaminal PLIF”
 “Denovo Degenerative Scoliosis”
 3rd Combined Meeting Spinal & Paediatric Sections of Western Pacific Orthopaedic Association
 Kochi, Japan November 1996

“Spinal Trauma”
 “Lumbar Interbody Fusion, Role and Selection of Approach”
 “Anterior Decompression and Fusion for Cervical Spondylotic Myelopathy”
 “Management of Spinal Deformity in Spina Bifida”

“Management of Post-Traumatic Kyphotic Deformities”
 Singapore Orthopaedic Association Scientific Meeting
 Singapore November 1996

“Rehabilitation of Spinal Cord Injuries”
 “Neuromuscular & Associated Causes of Scoliosis”
 AAOS Comprehensive Review Course 1997
 Chicago, Illinois March 1997

”De novo Degenerative Scoliosis: Treatment Algorithm and Classification”
 “Definition of Anterior Column Deficit and Materials to Support the Deficit”
 “Vertebrectomy: Indications and Technique”
 Advanced Theory and Techniques in Spinal Surgery
 Squaw Valley, California March 1997

“Definition of Anterior Column Deficit and Materials”
 Tulane-Louisville Fellows Meeting
 New Orleans, Louisiana April 1997

“Spinal Fusion: Current Controversies”
 “Anterior Cervical Reconstruction using Titanium Mesh in the Treatment of Degenerative Cervical Spine”
 3rd Stryker Cage Meeting Moderator
 Bruges, Belgium April 1997

“Surgical Approaches to the Spine - Lumbar & Thoracic”
 The Nurse and Spinal Surgery
 Lutheran Hospital
 New Orleans, Louisiana June 1997

“Operating in Developing Countries”
 Fracture Treatment Controversy: Thoracolumbar Burst Fracture, Anterior Only - Panelist
 Instrumentation in the Thoracocervical Junction - Round Table Leader
 Midline Endoscopic Device for Spinal Surgery - Moderator
 Problems in Diagnosis and Treatment of Degenerative Lumbar Spine - Panelist
 4th International Meeting on Advanced Spine Techniques
 Bermuda July 1997

“Rotational Corpectomy”
 “Fusion Level Selection in Deformity Surgery”
 4th Annual Society for the Study of Surgical Technique for Spine and Spinal Nerves
 Tokyo, Japan September 1997

“Phenomena of Cages”
 Osteonics Spine Team Meeting
 New Orleans, Louisiana
 September 1997

“Fusion Level Selection in Deformity Surgery”
 “De Novo Scoliosis: Treatment and Classification”
 “Spinal Stenosis”
 National Scoliosis Foundation Meeting
 Boston, Massachusetts
 October 1997

“Vertebrectomy for Treatment of Spinal Deformity”
 “De Novo Scoliosis: Treatment and Classification”
 “Spinal Stenosis”
 “Fusion Level Selection in Deformity Surgery”
 DePuy Motech Metro Meeting
 New Orleans, Louisiana
 November 1997

“Adult Spinal Deformity: Kyphosis and Degenerative Scoliosis”
 AAOS Review Course
 New Orleans, Louisiana
 December, 1997

“Complications of ALIF and PLIF”
 Methods of Interbody Fusion of the Spine
 New York City, New York
 December, 1997

“Definition of Anterior Column Deficit: A Clinical View”
 “Cervical Corpectomy: Technique”
 “Pedicule Screws in 1998”
 Thoracolumbar Trauma - Panelist
 Snowmass Spinal Seminar
 Snowmass, Colorado
 January 1998

“Status of Scoliosis”
 Grand Rounds
 St. Mary’s Medical Center
 Evansville, Indiana
 April 1998

“Anterior Surgery for Idiopathic Scoliosis”
 “Use of Pedicle Screws in the Treatment of Scoliosis”
 Controversies and Challenges in Spinal Deformities, Thoracolumbar and Cervical Surgery
 Key Largo, Florida
 April, 1998

“Rehabilitation of the Spinal Cord Injury Patient”
 “Neuromuscular and Other Causes of Scoliosis”
 AAOS Review Course

Chicago, Illinois	May, 1998
<p>“Cervical Corpectomies” “Anterior Fusion for Idiopathic Scoliosis” Tulane-Louisville Fellows Meeting Williamsburg, Virginia</p>	May, 1998
<p>“Selection of Fusion Levels for Scoliosis” “Anterior Fusion for Idiopathic Scoliosis” “Neuromuscular & Other Causes of Scoliosis” “Rehabilitation of the Spinal Cord Injury” 18th Asian Orthopaedic Association Meeting Singapore</p>	October, 1998
<p>“Evaluation of Persistent Postoperative Leg Pain: Differential Diagnosis of Sciatica” “Role of Posterior Lumbar Interbody Fusion (PLIF)” “Circumferential (360°) Fusion” Moderator: Axial Pain Contemporary Issues in Spine Surgery Sarasota, Florida</p>	March, 1999
<p>“Complications of PLIF” “Multiple Level Fusion, Fusion to the Sacrum and T-L Junction” Complications of Spinal Fusion of the Lumbosacral Spine Squaw Valley, California</p>	March, 1999
<p>“Surgical Technique: A Modified TLIF” T.L.I.F. Course Bethesda, Maryland</p>	April, 1999
<p>“Evaluation of Persistent Postoperative Leg Pain: Differential Diagnosis of Sciatica” “Multi-Level Fusion, Fusion to the Sacrum and T-L Junction” “Spondylolisthesis” Tulane-Louisville Meeting New Orleans, Louisiana</p>	April, 1999
<p>“Rehabilitation of the Spinal Cord Injury Patient” “Neuromuscular and Other Causes of Scoliosis” AAOS Review Course Chicago, Illinois Instrumentation: Evaluation and Clinical Experience” Challenges to Spine Surgery Symposium</p>	May, 1999 “Lumbar Spine

Cancun, Mexico	May, 1999
“Anterior Fusion for Idiopathic Scoliosis” Isola Study Group Meeting Charlotte, North Carolina	May, 1999
Interbody Fusion Cages/Devices Stryker/Osteonics Cage Meeting Moderator Salzburg, Austria	June, 1999
“Persistent Leg Pain” “Modified TLIF Surgical Technique” TLIF Course Faculty St. Louis, Missouri	June, 1999
“Transforaminal Lumbar Interbody Fusion (TLIF)” Grand Rounds University of Chicago Chicago, Illinois	August, 1999
EBI Meeting Omega-21 Instructor Las Vegas, Nevada	October, 1999
“Transforaminal Lumbar Interbody Fusion” “Anterior Fusion for Idiopathic Scoliosis” “Evaluation of Persistent Postoperative Leg Pain” Sociedad Argentina de Patologia de la Columna Vertebral Meeting Punta del Este, Uruguay	November, 1999
“Late Effects of Scoliosis Fusion” 12th Annual Ski With the Spine Center, A Contemporary Update on Disorders of the Spine Whistler, British Columbia, Canada	January, 2000
“Long Anterior Instrumentation for Scoliosis” “Corpectomy... Cervical, Thoracic and Lumbar” Panelist: Adolescent Deformity SKI 2000 with “Big Time Spine ” Meeting Snowmass, Colorado	January, 2000
Management of Degenerative Disease of the Cervical Spine” AO/ASIF MEETING	“Anterior

St. Louis	March, 2000
“Platelet Gel” Tulane Louisville Fellows Annual Meeting Miami, Florida	April, 2000
“Rehabilitation of the Spinal Cord Injury Patient” “Neuromuscular and Other Causes of Scoliosis” AAOS Review Course Chicago, Illinois	May, 2000
Instructor, Omega-21 System EBI Meeting St. Thomas, Bahamas	May, 2000
“Spondylolisthesis in Athletes” 2 nd Annual UK Wildcat Sports Medicine Symposium University of Kentucky Lexington, Kentucky	May 2000
Synthes Advanced Spine Training Course Anterior and Posterior Cervical Spine Surgery & Instrumentation Faculty & Surgeon St. Louis, Missouri	June, 2000
“Bilateral TLIF – Indications, Complications, Techniques, Clinical Results & Future Direction” “Vascular Anatomy & Approach Considerations” Non-Threaded Innovations in Lumbar Interbody Fusion Sante Fe, New Mexico	August, 2000
“3-D Pathology Secondary to Degenerative Disc Disease and its Treatment; Degenerative Scoliosis” “TLIF with Mesh Cages” Surgical Treatment Options for Chronic Mechanical Low Back Pain Practical Anatomy Workshop St. Louis, Missouri	November, 2000
“Lumbar Fractures” Fractures Above the Belt Texas Tech Meeting Sante Fe, New Mexico	January, 2001
“TLIF” Grand Rounds Ft. Wayne, Indiana	March, 2001

“Review of the literature related to interbody fusion, cages”
 7th Interbody Technologies Meeting
 Hong Kong March, 2001

“Artificial Disc Replacement”
 Tulane-Louisville Fellows Meeting
 New Orleans, Louisiana April, 2001

“Indications & Benefits of Electrical Stimulation”
 Grand Rounds
 University of Kentucky School of Medicine
 Lexington, Kentucky August, 2001

“Bilateral TLIF – Indications, Complications, Techniques, Clinical Results & Future
 Direction”
 “Vascular Anatomy & Approach Considerations”
 Non-Threaded Innovations in Interbody Spine Surgery
 Denver, Colorado August, 2001

“Bilateral TLIF – Indications, Complications, Techniques, Clinical Results & Future
 Direction”
 Interbody Challenges Discussion Group
 Palm Beach, Florida November, 2001

“Clinical Experience with an Artificial Disc”
 Challenges to Spine Surgery Symposium
 New Orleans, Louisiana December, 2001

“TLIF & TPLIF (Transforaminal Approaches)”
 “Exposure & Extraperitoneal approach to the anterior lumbar spine”
 Advanced Techniques for Interbody Fusion of the Lumbar Spine
 St. Louis, Missouri December, 2001

“Bilateral Transforaminal Interbody Fusion”
 Interbody Challenges of the Lumbar Spine Discussion Group
 New Orleans, Louisiana February, 2002

Visiting Surgeon and Lecturer
 Rehabilitation Institute for Handicapped and Disabled
 Dacca, Bangladesh
 Guest Surgeon at Dacca Medical College
 Medical Volunteer, Bangladesh February 2002 “Adult
 Scoliosis: 360°”
 Point – Counterpoint: Issues in Advanced Spinal Surgery
 Miami Beach, Florida March, 2002

<p>“Management of Cervical Spine Degenerative Disc Disease/Trauma Chairman Synthes Bioskills Workshop Louisville, Kentucky</p>	<p>June, 2002</p>
<p>“Consideration for the Anterior Lumbar Approach” Interbody Fusion Course – PAWS Lab TLIF Demo Pedicule Screw Fixation Demo ALIF Cages/Spacers Demo Thoracic Abdominal Approach T12 – L1 Demo St. Louis, Missouri</p>	<p>October, 2002</p>
<p>“Lumbosacral approaches” “Technique of cervical corpectomy” “Fusion level selection in scoliosis surgery” INTERNATIONAL CONFERENCE ON SPINAL SURGERY Beijing and Chongquin, China</p>	<p>October, 2002</p>
<p>“Long anterior instrumentation for scoliosis” “Selection of fusion levels in adolescent idiopathic scoliosis” “Platelet gel for spinal fusion” Summitt Spine Meeting Miami Beach, Florida</p>	<p>November, 2002</p>
<p>“Nonoperative Management of TL Trauma” “Ankylosing Spondylitis” AO ASIF COURSE Sun Valley, Idaho</p>	<p>February, 2003</p>
<p>“Nonoperative Management of TL Trauma” “Ankylosing Spondylitis” Tulane-Louisville Spine Meeting Atlantis, Bahamas</p>	<p>April, 2003</p>
<p>“Selection of Fusion Levels” Argos Meeting Moderator Farmington, Pennsylvania “Clinical Experience with the SB Charite III” EBI Meeting Course Co-Chairman</p>	<p>August, 2003</p>

New Orleans, Louisiana	September, 2003
“Considerations for the Anterior Lumbar Approach” “Artificial Disc Replacement” Interbody Fusion & Pedicle Screw Fixation PAWS Lab St. Louis, Missouri	November, 2003
Surgeon Panel “Disc replacement, BMP, post-op management” Orthofix Sales Meeting Paradise Island, Bahamas	January, 2004
“Artificial Disc Replacement” Kentucky Spine Institute Meeting Lexington, Kentucky	March, 2004
“Artificial Disc Replacement” Journal Club, Jewish Hospital Louisville, Kentucky	July, 2004
Charite Artificial Disc Sales Training Meetings Cincinnati, Ohio Chicago, Illinois Toronto, Canada Dallas, Texas	August, 2004 August, 2004 September, 2004 September, 2004
“Artificial Disc – Current Concepts” Trauma Symposium Degeneration – Balance, Balance, Balance “Scoliosis” ACSS Annual Meeting & Review Course Scottsdale, Arizona	September, 2004
Surgical Demonstration and Teaching of the Charite Artificial Disc System Madrid, Spain Barcelona, Spain Canary Islands	October, 2004
“Considerations for the Anterior Lumbar Approach” Current Issues and Techniques in Complex Lumbar Surgery Practical Anatomy Workshop St. Louis, Missouri	November, 2004

Charite Artificial Disc Trainer – Tissue Lab
The Center for Spine Arthroplasty
Cincinnati, Ohio 2004 – 2005

“Complications of Lumbar Artificial Disc Replacement vs Fusion: Results from the randomized,
Multicenter FDA IDE Study of the Charite Artificial Disc”
Spinal Arthroplasty Society Annual Meeting (SAS)
New York City, New York May, 2005
Received Best Paper Award

“Scoliosis – Congenital”,
“Scoliosis – AIS”
“Disc Arthroplasty – One year later”
ACSS Review Course
Riverside, California July, 2005

“Disc Arthroplasty – One year later”
Dayton, Medical Society
Dayton, Ohio August , 2005

“Artificial Disc – Current Concepts”
Grand Rounds
Orthopaedic Surgery Residency Program
Wright State University
Dayton, Ohio August, 2005

“Artificial Disc Replacement”
Baptist East Hospital Surgical Staff
Louisville, Kentucky October, 2005

“The Role of Constraint in Prosthesis Design”
First Annual Spine Arthroplasty Summit 2006
Salt Lake City, Utah February, 2006

“Current Status of Artificial Disc: Anterior Exposure in Lumbar Spine”
Preservation of Motion in the Spine Meeting
Duck Key, Florida April, 2006

Scoliosis”
American College of Spine Surgery Annual Meeting
Colorado Springs, Colorado May, 2006
“PLIF and TLIF Techniques”
“Lumbar Disc Arthroplasty Techniques”

Advanced Techniques in Spinal Decompression & Fixation PAWS Lab St. Louis, Missouri	May, 2006
“Artificial Disc Replacement Surgery – Update” 15 th Annual Workers Compensation Seminar” Louisville, Kentucky	June, 2006
“Thoughts on New Spine Technologies” Danek/Medtronic Meeting Louisville, Kentucky	October, 2006
“Pearls, Pitfalls, Complications, Salvage Techniques of ALIF” “Clinical experience with disc arthroplasty/cases” PAWS Lab St. Louis, Missouri	November, 2006
“Non Operative Treatment” – 10 minutes, Friday “Scoliosis and de novo scoliosis – Treatment options” – 20 minutes, Saturday MERC Vail Course Vail, Colorado	January, 2007
“When it fails – Diagnosis Revision Strategy and Techniques” Stryker Spine International Symposium Lisbon, Portugal	April, 2007
“Scoliosis” American College of Spine Surgeons Annual Meeting Nashville, Tennessee	May, 2007
“Artificial Disc: Indications, Techniques, Revision, Philosophy” Grand Rounds Department of Neurosurgery University of Kentucky School of Medicine Lexington, Kentucky	May, 2007
“Osteomyelitis” Jewish Hospital Nurses Louisville, Kentucky	October, 2007
“Spondylolisthesis” “TLIF” and demonstration “Hematogenous discitis and osteomyelitis in immunologically compromised patients” Demonstration “Total lumbar disc replacement” Current & Emerging Issues in Complex Lumbar Spine Surgery	

St. Louis, Missouri	November, 2007
<p>“Anterior Lumbar Interbody Fusion: Indications and Techniques “ALIF is the treatment of choice for single level DDD” Case presentation on lumbar degenerative scoliosis Spine on the Mountain, MERC Meeting Vail, Colorado</p>	February, 2008
<p>“Cauda Equina Syndrome” Spine Conference Cincinnati Children’s Medical Center Cincinnati, Ohio</p>	April, 2008
<p>“Cauda Equina Syndrome” American College of Spine Surgery Annual Meeting Dana Point, California</p>	May, 2008
<p>“PLIF/TLIF Techniques/Complications” “Rationale for ALIF/TDR” Current and Emerging Issues in Complex Lumbar Spine Surgery Practical Anatomy & Surgical Education Center St. Louis, Missouri</p>	November, 2008
<p>“Scheuermann’s Kyphosis” Cincinnati Children’s Spine Conference Cincinnati, Ohio</p>	April, 2010
<p>“Degenerative Spondylolisthesis: Open fusion/decompression options” “One Level DDD: Motion preservation options” Current & Emerging Issues in Complex Lumbar Spine Surgery Practical Anatomy Workshop St. Louis, Missouri</p>	October, 2010
<p>“Back and Neck Injuries” National Business Institute Anatomy and Physiology 101 for Attorneys Louisville, Kentucky</p>	January, 2011
<p>“Cauda Equina Syndrome – Early v Late Surgery” “Spondylolisthesis – Open Fusion Options” Innovative Technologies in Complex Lumbar Spine Surgery Course</p>	

Practical Anatomy Lab, St. Louis University Missouri	November, 2011 St. Louis,
“Orthopedic Spine Surgery” National Business Institute Diagnosis and Treatment of Neck and Back Injuries for Lawyers Louisville, Kentucky	December, 2011
“Back and Neck Injuries” National Business Institute Anatomy and Physiology 101 for Attorneys Louisville, Kentucky	January, 2012
“Cauda Equina Syndrome” Innovative and Advanced Techniques in Lumbar Spine Surgery Practical Anatomy Lab, St. Louis University St. Louis, Missouri	November, 2012
“Cauda Equina Syndrome” Innovative and Advanced Techniques in Lumbar Spine Surgery Practical Anatomy Lab, St. Louis University St. Louis, Missouri	September, 2013

PUBLICATIONS

Johnson JR, Leatherman KD, Holt RT: Anterior Decompression of the Spinal Cord for Neurologic Deficit. *Spine*, Vol 8 (4): 396-405, May-June 1983

Henry S, Rosenberg S, Johnson JR, Holt RT: Cotrel Dubousset Instrumentation in The Unstable Spine. *Southern Medical Journal*, 79:9, 1986

Johnson JR and Holt RT: Combined Use of Anterior and Posterior Spine Surgery for Adult Scoliosis. *Orthop Clin North AM*, Vol 19, (2) 361-70, April 1988

Horton WC, Holt RT, Leatherman KD, Johnson JR: Zielke Instrumentation in Idiopathic Scoliosis: Late Effects and Minimizing Complications. *Spine*, Vol 13 (10), 1145-9, October 1988

Edmonds HL, Paloheimo M, Backman MH, Johnson JR, Holt RT, Shields CB: Transcranial Magnetic Motor Evoked Potentials (tc MMEP) for Functional Monitoring of Motor Pathways During Scoliosis Surgery. *Spine*, Vol 14 (7), 683-6, July 1989

Puno RM, Johnson JR, Osterman PA, Holt RT: Analysis of Primary and Compensatory Curves Following Zielke Instrumentation for Idiopathic Scoliosis: *Spine*, 14 (7), 738-43, July 1989

Holt RT and Johnson JR: Cotrel Dubousset Instrumentation in Neurofibromatosis Spine Curves: A Preliminary Report. *Clinical Orthopaedics and Related Research*, Number 245, 19-23, August 1989

Henry S, Rosenberg S, Osterman P, Holt R, Johnson J: Management of Unstable Fractures of the Spine with the Cotrel Dubousset Instrumentation. *Langenbecks Archiv Fur Chirurgie*, Springer - Verlag, Heidelberg, Seiten: 1-6, 1 Korr: 5.90 1989

Glassman S, Johnson J, Holt R: Seat Belt Injuries in Children. *Journal of Trauma* 1990 33(6): 882-6 1992 December

Puno R, Grossfeld S, Johnson J, Holt R: Cotrel Dubousset Instrumentation in Idiopathic Scoliosis. *Spine* Vol 17 (8 Suppl) S258-62 August 1992

Young MJ and Holt RT: Infections of the Spine. *BACKTALK* Vol. 16, No. 3, September 1993.

Werner JG and Holt RT: Neuropathic Spinal Arthropathy: A Case History and Six Year Followup. *Journal of the Kentucky Medical Association*, February 1995, Vol. 93, No. 2 48-52

Williams JI and Holt RT: Ask the Doctor. *BACKTALK*, Vol. 18, No. 3, November/December, 1995.

Horton WC, Holt RT and Muldowny DS: Controversy: Fusion of L5-S1 in Adult Scoliosis. SPINE, Vol. 21, No. 21, 2520-2522, 1996.

Majd ME, Muldowny DS and Holt RT: Natural History of Scoliosis in the Institutionalized Adult Cerebral Palsy Population. SPINE, July 1, 1997, Vol. 22, No. 13 1461-1466

Majd ME and Holt RT: Anterior fibular strut grafting for the treatment of pseudoarthrosis in spondylolisthesis. Am J Orthop, Feb. 2000, Vol. 29, No. 2: 99-105.

Majd ME, Vadhva M and Holt RT: Anterior Cervical Reconstruction using Titanium Cages With Anterior Plating. SPINE, Vol. 24, No. 15, 1604-1610, August, 1999.

Majd ME, Castro FP and Holt RT: Anterior fusion for idiopathic scoliosis. SPINE, Vol. 25, No. 6, 696-702, March 15, 2000.

Castro FP, Holt RT, Majd ME and Whitecloud TE: A cost analysis of two anterior cervical fusion procedures. J Spinal Disorder, 13:6:511-514, 2000.

Young MJ and Holt RT: Infections of the Spine. Biomed, Vol. 8, No. 3, April 2001, 8-10.

Majd ME, Holt RT and Castro FP: Artificial disc replacement: a revolutionary treatment for degenerative disc disease. Louisville Medicine, Vol. 49, No. 4, September 2001 147-150.

Hee HT, Majd ME, Holt RT and Pienkowski D: Better treatment of vertebral osteomyelitis by using posterior stabilization and titanium mesh cages. J Spinal Disord Tech 2002 Apr; 15(2): 149-56.

Hee HT, Castro FP, Majd ME, Holt RT and Myers L: Anterior/Posterior Lumbar Fusion versus Lumbar Interbody Fusion: Analysis of Complications and Predictive Factors. J Spinal Dis 14:6 533-540, 2001.

Holt RT, Majd ME and Castro FP: Selection of Fusion Levels in Scoliosis Surgery. J Spinal Disord Tech 16:1 71-82, 2003.

Hee HT, Majd ME, Holt RT, Whitecloud TS, Pienkowski D: Complications of Multilevel Cervical Corpectomies and Reconstruction with Titanium Cages and Anterior Plating. J Spinal Disord Tech 16:1 1-9, 2003.

Hee HT, Majd ME, Holt RT and Myers L: Do autologous growth factors enhance transforaminal lumbar interbody fusion? Eur Spine J (2003) 12:400-407.

Majd ME, Vadhva M, Holt RT: The Efficacy of Anterior Spine Exposure by An Orthopedic Surgeon. J Spin Disorders Tech, Vol 16, No. 5, 477-486, 2003.

BOOK CHAPTERS

Leatherman KD, Johnson JR, Holt RT, Broadstone P: A Clinical Assessment of 357 Cases of Segmental Spine Instrumentation. Chapter 8, Segmental Spinal Instrumentation. Thorofare: Slack, Inc. 1984

Johnson JR, Holt RT: Injuries to Extremities. Chapter in Basic Surgery, Third Edition

Reszaian SM, Ghista DN, Holt RT, Johnson JR: Biomechanics and Treatment of Thoracolumbar Spinal Fractures. Spinal Cord Injury Medical Engineering. Springfield: Charles C. Thomas, 1986

Holt RT: Thoracic and Lumbar Spinal Fusions. Operative Spinal Surgery (Practice of Surgery Series). Frenchay Health Authority, Churchill Livingstone, London, England, 1991

Dopf CA, Holt RT: Adult Kyphosis. The Adult Spine: Principles and Practice. 2nd Edition. Drs. Frymoyer, Ducker, Hadler, Kostuik, Weinstein and Whitecloud, editors. Raven Press. New York, New York. 1996

Werner GJ, Holt RT: Dynalok Instrumentation in Lumbosacral Fusions. Lumbosacral and Spinopelvic Arthrodesis. 1996

McComis GP and Holt RT: Anterior Approaches to L5-S1. Spine: State of the Art Reviews, Vol. 11, No. 1, 1997. Adult L5-S1 Surgery. Hanley & Belfus, Inc., Philadelphia, Pennsylvania

Majd ME, Harkess JW, Holt RT, Madsen K, Mahan J: Revision Spine Surgery. Anterior approach to the Spine. 1999. Mosby-Year Book, Inc., Philadelphia, Pennsylvania, 1st ed. p. 138-155.

Majd ME, Richey JL, Holt RT: Treatment of Spinal Deformities in Myelodysplasia: Lumbar Kyphectomy. SPINE: State of the Art Reviews – Vol. 12, No. 1, January, 1998 91-102.

Pacheco HO, Holt RT and Majd ME: Spinal Deformity: Scoliosis-Indications for Vertebrectomy in: Anterior Spinal Column Reconstruction: Biomechanics, Rationale, and Techniques. Lippincott-Raven, 1999. In process.

Majd ME, Holt RT and Richey JL: Case 56. Spinal deformity in Myelodysplasia – Lumbar Kyphectomy. MasterCases Spine Surgery, Thieme, New York, 2001, 455-464.

Majd ME, Musser DH, Castro FP, and Holt RT: Anterior surgical approaches to the thoracic and lumbar spine. Spine Secrets: Questions and answers reveal the secrets to successful diagnosis and treatment of spinal disorders/ [edited by Vincent J. Devlin. Hanley & Belfus. Philadelphia, 194-202, 2003.

Majd ME, Farley S, and Holt RT: Preliminary outcomes and efficacy of the first 360 consecutive kyphoplasties for the treatment of painful osteoporotic vertebral compression fractures. *The Spine Journal*, 5 (3), May/June 2005, 244-255.

Holt RT, Majd ME, Isaza JE, Blumenthal SL, McAfee PC, Guyer RD, Hochschuler SH, Geisler, FH, Garcia R and Regan JJ: Complications of lumbar artificial disc replacement compared to fusion: results from the prospective, randomized, multicenter US Food and Drug Administration investigational device exemption study of the Charite Artificial Disc. *SAS Journal*, Winter 2007, Vol. 1:1, p 20-27.

Guyer RD, McAfee PC, Banco RJ, Bitan FD, Cappuccino A, Geisler FH, Hochschuler SH, Holt RT, Jenis LG, Majd ME, Regan JJ, Tromanhauser SG, Wong DC, Blumenthal SL: Prospective, randomized, multi-center Food and Drug Administration investigational device exemption study of lumbar total disc replacement with the CHARITE artificial disc versus lumbar fusion: Fiveyear follow-up. *The Spine Journal* 9 (2009) 374-386.

Stevens QE, Majd ME, Kattner KA, Jones CL and Holt RT: Use of spinous processes to determine the optimal trajectory for placement of lateral mass screws: technical note. *J Spinal Disord Tech*, 22 (5), July 2009 347-352.

BOOKS

Editor, *Management of Spinal Deformities, Spine: State of the Art Reviews*, May 1992, Volume 6, Number 2. Hanley & Belfus, Inc., Philadelphia, Pennsylvania.

PAPERS PRESENTED

Degenerative Lumbar Scoliosis Treated by Anterior/Posterior Fusion (Co-author with John J. Vaughan, M.D.)
Kentucky Orthopaedic Society Meeting
September, 1993
Louisville, Kentucky

Intrathecal Morphine: Disastrous Results when coupled with Intravenous Morphine in the Post-Operative Period (Two Case Reports) (Co-author and presenter, Michael J. Young, M.D. and Marc A. Asher, M.D.)
Scoliosis Research Society Annual Meeting
September, 1994
Portland, Oregon

Anterior Correction and Fusion of Idiopathic Scoliosis using TSRH Instrumentation (Co-author and presenter, Mohammad Esmaily-Majd, M.D. and Jorge E. Isaza, M.D.)
Kentucky Orthopaedic Society Meeting
April, 1995

Lexington, Kentucky

Growing Rod: A New Technique

(Co-author and presenter, Kevin A. Rahn, M.D. and Jorge E. Isaza, M.D.)

Southern Orthopaedic Association Annual Meeting

July, 1995

Quebec City, Canada

Anterior Correction and Fusion of Idiopathic Scoliosis using TSRH Instrumentation

(Co-author with Mohammad Esmaily-Majd, M.D. and Jorge E. Isaza, M.D.) Presented by Kevin A. Rahn, M.D.

Southern Orthopaedic Association Annual Meeting

July, 1995

Quebec City, Canada

Musculoskeletal Infection Society

Salmonella Vertebral Osteomyelitis: A Case Report

(Co-authored with David S. Muldowny, M.D. and Jorge E. Isaza, M.D.)

Presented by Gerald Wozasek, M.D.

August, 1995

Snowmass, Colorado

1997 AECT National Convention

“Virtual Grand Rounds: Analysis of Physicians

World-Wide Web-Based Collaboration”

(Co-authored with Eggers D, Mazur JM, Ph.D. and Schuhmann NM) Presented by Joan Mazur, Ph.D.

February, 1997

Albuquerque, New Mexico

Scoliosis Research Society Meeting

Inter-Observer Variations Assessing Vertebral Rotation with
Nash-Moe and Perdriolle Methods

(Co-authored with Francisco Londono, M.D. and Jorge Isaza, M.D.) Presented by Jorge Isaza, M.D.

September, 1997

St. Louis, Missouri

Anterior Cervical Reconstruction using Titanium Mesh in the Treatment
Of the Degenerative Spine

Anterior Correction and Fusion of Idiopathic Scoliosis

Southern Medical Association Meeting Presented by

Mohammad Majd, M.D.

November, 1997

Charlotte, North Carolina

POSTER EXHIBITS

Resection of Vertebral Bodies for Correction of Spinal Deformity
American Academy of Orthopaedic Surgeons
New Orleans, Louisiana
January 1982

Cotrel-Dubousset Instrumentation - Technique and Experience
Scoliosis Research Society
San Diego, California
September 1985

Biomechanical Analysis of Cotrel-Dubousset
American Academy of Orthopaedic Surgeons
San Francisco, California
January 1987

Analysis of Primary and Compensatory Curves Following Zielke
Instrumentation for Idiopathic Scoliosis
American Academy of Orthopaedic Surgeons
Las Vegas, Nevada
February 1989

An Analysis of 107 Cases of Single Stage Anterior and Posterior Spine Surgery
Transpedicular "Eggshell" Vertebrectomy for Metastatic Disease of The Spine
Scoliosis Research Society
Amsterdam, The Netherlands
September 1989

Selection of Fusion Levels for Cotrel-Dubousset Instrumentation in Idiopathic Scoliosis
Scoliosis Research Society
Honolulu, Hawaii
September 1990

Corpectomy for Spinal Deformity
Scoliosis Research Society
Kansas City, Missouri
September 1992

The Holt Staple
Scoliosis Research Society
Dublin, Ireland
September, 1993
Non Paralytic Adult Galveston Instrumentation

Charcot Spinal Arthropathy
Spine + Science + Management
New Orleans, Louisiana
November, 1993

Degenerative Lumbar Scoliosis treated by
Combined Anterior and Posterior Spinal Fusion
AAOS Annual Meeting
New Orleans, Louisiana
February, 1994

The Effect of Premarin on the Excessive Post Operative Drainage after Posterior
Lumbosacral Vertebral Fusion
Anterior TSRH Instrumentation for Scoliosis
Use of the Kaneda Device for Thoracolumbar Fractures
Non-Paralytic Adult Galveston Instrumentation: A Retrospective Analysis and Review
Pedicle Screw Fixation: A Technique for Identifying the Entrance Point
Anterior Fibular Strut Graft for Pseudoarthrosis in Patients with Spondylolisthesis
The Simple Galveston Bend
Scoliosis Research Society Annual Meeting
September, 1994

Anterior TSRH Instrumentation for Scoliosis
Use of the Kaneda Device for Thoracolumbar Fractures
Holt Staple: A New Device for Anterior Fixation of the Spine
2nd International Meeting on Advanced Spine Techniques
Curacao, Netherlands Antilles
April, 1995

Growing Rod: Our Experience with a New Technique
Surgical Approaches to the Anterior Spine - Does the Qualified Spine Surgeon Need the
Assistance of General Surgeons?
Relation of Fusion Rate and Location of the Leads with Internal Bone Stimulators
Natural History of Scoliosis and Kyphosis in Adult Cerebral Palsy
Spine Surgery on the Internet
Scoliosis Research Society Annual Meeting
Asheville, North Carolina
September, 1995

Vertebral Rotational-plasty: A Technique for Anterior Column Reconstruction
Southern Medical Association
89th Annual Scientific Assembly
November, 1995

Natural History of Scoliosis and Kyphosis in Adult Cerebral Palsy
Vertebral Rotational Plasty: A Technique for Anterior Column Reconstruction
Spine Surgery on the Internet
The Effect of Premarin on the Excessive Postoperative Drainage after Posterior
Lumbar and Lumbosacral Vertebral Fusion
Growing Rod: Our Experience with a New Technique
Kentucky Medical Society Annual Meeting
Louisville, Kentucky
September, 1996

Virtual Grand Rounds on the Internet
Anterior Column Reconstruction using Titanium Cages in the Surgical Treatment of
Malignant Tumors of the Spine
Surgical Treatment of Scoliosis in Adult Cerebral Palsy
Scoliosis Research Society Annual Meeting
Ottawa, Canada
October, 1996

Spine Surgery on the Internet
North American Spine Society Annual Meeting
Vancouver, British Columbia
November, 1996

Anterior Cervical Reconstruction Using Titanium Mesh in the Treatment of Degenerative
Cervical Spine
Cervical Spine Research Society Annual Meeting
Palm Beach, Florida
December, 1996

Inter-observer Variations Assessing Vertebral Rotation with Nash-Moe and Perdriolle
Methods
Denovo Scoliosis Clinical Results with Operative Treatment
4th International Meeting on Advanced Spine Techniques
Bermuda
July, 1997

Inter-observer Variations Assessing Vertebral Rotation with Nash-Moe and Perdriolle
Methods
Denovo Scoliosis Clinical Results with Operative Treatment
Anterior Correction and Fusion of Idiopathic Scoliosis
The Transforaminal Approach for Lumbar Interbody Fusion
Scoliosis Research Society Annual Meeting
St. Louis, Missouri
September, 1997

Anterior Fusion for Scoliosis
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New York City
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Radiographic Classification of Degenerative Disc Disease
Spinal Deformity in Myelodysplasia: A New Technique for Lumbar Kyphectomy
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San Diego, California
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Complications of Multi-Level Cervical Corpectomy and Reconstruction with Titanium Cages
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Charleston, South Carolina
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Complications of Multi-Level Cervical Corpectomy and Reconstruction with Titanium Cages
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Anterior/Posterior Lumbar Fusion vs. Transforaminal Lumbar Interbody Fusion: Analysis of
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Gothenburg, Sweden
September, 2001

A report of the rate of additional, symptomatic vertebral compression fractures in osteoporotic
patients who were treated by kyphoplasty Scoliosis Research Society Annual Meeting
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September, 2003

Complications of Lumbar Artificial Disc Replacement vs. Fusion: Results from the
Randomized, Multicenter FDA IDE Study of the CHARITE Artificial Disc
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Change in Lumbar Lordosis after Dynesys
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