

**John Gregory Stark, MD**  
**825 Nicollet Mall, Suite 715**  
**Minneapolis, Minnesota, 55402**  
**(612) 332-2324**  
**(612) 877-1080**

## *Curriculum Vitae*

### *Eagle Scout*

### *Academic Degrees*

BA	St.Olaf College Major: Biology, Chemistry, Asian Studies Northfield, Minnesota	1971
M.D.	University of Minnesota Minneapolis, Minnesota	1976

### *Internship/ Residency*

	Hennepin County Medical Center, Rotating Surgery G-1 Minneapolis, Minnesota	1976-77
	University of Minnesota Veterans Administration Medical Center, Orthopedic Surgery Minneapolis, Minnesota	1977-81
	University of Minnesota Medical School Minneapolis, Minnesota	1972-1976

### *License*

	Minnesota Board of Medical Examiners	7/1/77
	National Board of Medical Examiners Diplomat	7/7/77

### *Licensure*

Minnesota # 23369  
DEA # AS8070877

### *Board Certification*

	American Board of Orthopedic Surgery	Diplomat 1984
	Arthroscopy Board of North America	Diplomat 1989

### *Work History*

	St. Paul Bone and Joint Surgeons, General Orthopedics	1981-1991
	Shriner's Hospital for Crippled Children, Complex Problems of the Foot	1981-1990
	Metropolitan Spine Group Low Back Degeneration/Salvage	1992-1996
	John G. Stark, M.D., P.A., Low Back Degeneration/Injury	1996 - Present

University of Minnesota, Assistant Professor Orthopedics	2000 -2009
Regions Hospital, General Orthopedic Trauma / Spine Surgery	2000 -2009
Ilion Medical, Inc, Chief Scientific Officer, Executive VP	2014 - Present

***Published Articles***

Stark, J.G., Johnson, J.E. & Winter, R.B. (1987).  
 “The Heyman –Herndon Tarsometatarsal Capsulotomy for  
 Metatarsus Adductus: Results in 48 Feet”,  
 J. Ped. Ortho, 7: 305-310.

Stark, J.G. (2010)  
 “The Diagnosis and Treatment of Sacroiliac Joint Abnormalities”  
*Current Orthopaedic Practice*, 21(4), 336. July/August 2010

Stark, J.G. (2011)  
 “The history of the sacroiliac joint arthrodesis: a critical review and an introduction of a new technique”  
*Current Orthopaedic Practice*, 22(6), 545. Novemeber/December 2011

**Memberships**

Fellow, American Academy of Orthopedic Surgeons  
 Fellow, North American Spine Society  
 Twin City Orthopedic Society  
 Hennepin County Medical Society  
 Minnesota Orthopedic Society  
 Sacro Iliac Medical Expert Group

**Hospital Affiliations**

Fairview University Medical Center, Riverside Campus, Minneapolis, MN  
 Regions Hospital, St.Paul, MN

**Committees**

Pharmacology and Therapeutics, Chief Shriner’s Hospital for Crippled Children	1985-1990
Surgery Committee Northfield Hospital, Northfield, Minnesota	1984-1990
Quality Assurance Committee Northfield City Hospital	1984-1990
Orthopedic Task Force Fairview Riverside Hospital	1993-1994
Neuro Physiological Monitoring Committee Regions Hospital	2004

**Elected Positions**

Chief, Orthopedics St. Joseph’s Hospital	1987
Vice President and Board Member, Carondelet Healthcare Foundation	1985-1989
Chairman, Grant Committee Carondelet Healthcare Foundation	1989-1990

Executive Committee Member Carondelet Healthcare Foundation	1989-1990
Board Member, Healtheast Foundation Carondelet Representative	1988-1989
Director, Workers' Compensation Spine Injury Center Fairview Riverside Hospital	1992

***Residency***

Veterans Administration Medical Center Minneapolis, Minnesota	1977-1981
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Participating Hospitals:  
 University of Minnesota Hospital  
 Hennepin County Medical Center  
 Shriner's Hospital for Crippled Children, Twin Cities Unit  
 Gillette State Hospital for Crippled Children

***Teaching Positions***

Instructor, University of Minnesota, Orthopedic Surgery Shriner's Hospital for Crippled Children Minneapolis, Minnesota	1981-1991
Assistant Professor of Orthopedics University of Minnesota	2000 - 2008

***Academic Appointments***

Clinical Instructor, University of Minnesota Minneapolis, Minnesota	1984-1994
Assistant Professor of Orthopaedics, University of Minnesota Trauma Orthopedist and Trauma Spine Consultant Regions Hospital, Level 1 Trauma Center University of Minnesota	2000-2008

***Academic Presentations***

<i>"Laboratory and Clinical Alteration Following Orthopedic Trauma Association Hip Replacement"</i> Hennepin County Medical Center Minneapolis, Minnesota	November 1976
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<i>"Metatarsus Adductus and Tarsometatarsal Capsulotomy Clinical Study and Review of the Literature"</i> Orthopedics Today Annual Symposium St. Joseph's Hospital St. Paul, Minnesota	April 1980
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<i>"The Heyman - Herndon Tarsometatarsal Capsulotomy for Metatarsus Adductus: Results in 48 Feet"</i> American Academy of Orthopedic Surgeon 51st Annual Meeting, Atlanta Georgia	
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- “Low Back Injuries: Hard Data for Tough Choices”*  
Methodist Hospital  
St. Louis Park, Minnesota November 1990
- “The Comprehensive Evaluation of the Difficult Lumbar Spine Patient”*  
North American Spine Society Winter Meeting January 1992
- “Changing the Emphasis from Fusion to Reconstruction: The Application of Intercalary Allografting to Disc Space Collapse Presenting as UP/Down Stenosis or Spondylolisthesis”*  
Winter Meeting North American Spine Society January 1992
- “A Response to the New Workers’ Compensation Treatment Standards”*  
Minneapolis, Minnesota June 1993
- “Anterior - Posterior Fusion of the Lumbar Spine”*  
Minnesota Association of Rehabilitation Providers  
Minneapolis, Minnesota September 1993
- “The Challenging Lumbar Spine Fusion”*  
Dallas Spine Group Annual Meeting  
Keystone, Colorado January 1994
- Medical Practice in a Risk-Sharing Environment:  
The Ethical Issues”* Questions from a Caregiver  
Fairview Riverside Hospital, Brennan Center  
Minneapolis, Minnesota March 1994
- “Head and Neck Soft Tissue Injury Associated with Motor Vehicle Accidents”*  
Minnesota Trauma Association Institute of Legal Education  
Minneapolis, Minnesota January 1995
- “Lateral Recess Stenosis: Chiropractic and Orthopedic Approaches”* Grand Rounds,  
Fairview Riverside Hospital  
Minneapolis, Minnesota April 1995
- “Traditional Risk Fact Orthopedic Research Society Not of Predictive Value in One Method of Spine Fusion”*  
Minnesota Orthopedic Association  
Minneapolis, Minnesota April 1995
- “Controversies in Low Back Care”*  
Minnesota Sports Medicine Center  
Minneapolis, Minnesota October 1996
- “Philosophy of Lateral Recess Decompression or Disc Surgery”*  
Minnesota Same Day Surgery Nurses Association  
Minneapolis, Minnesota October 1998
- “Conservative Approaches to Lumbar Decompression Surgery”*  
The Seventh Annual Chiropractors Guide to  
Minnesota No-Fault and Workers Compensation Law  
Sommerer & Schultz, P.A

Minneapolis, Minnesota	August 1999
<i>“Microprocessor-Assisted Whole Limb Monitoring for Orthopaedic Recovery”</i> HCMC Total Joint Conference Minneapolis, Minnesota	November 1999
<i>“Sacro-Iliac Fusion, a Rare Operation”</i> S-I Joint Interest Group St. Paul, MN	November 1999
<i>“Is the SI Joint a Definable and Treatable Cause of Low Back Pain Syndrome?”</i> Minnesota Orthopedic Society Eighteenth Annual Meeting	May 2002
<i>“Practical Applications of Biophysical Methods”</i> University of Minnesota Grand Rounds	September 2004
<i>“Orthopaedic Macrotrauma”</i> Regions Orthopaedic Surgery Evaluation	June 2005
<i>Fracture Dislocation Associated with Paraplegia</i>	April 2006
<i>“Fusion or decompression” Decision making based on degenerative patterns and collapse”</i> <i>“SI Joint a common cause of failed back surgery”</i> <i>“Impact of foraminal stenosis in decompression surgery”</i> <i>“Orthopaedic Macro trauma II”</i> University of Guayaquil, Ecuador SEOT (Orthopedic and Traumatology for Ecuadorian Surgeons)	June 2006
<i>“Non-operative treatment for Vertebral Compression Fractures”</i> Geriatric Trauma Summit St. Paul, MN	September 15-16, 2006
<i>“Sacroiliac Joint Pain: Sensitivity and Specificity of Four Common Signs and Symptoms”</i> Minnesota Orthopaedic Society	May 2007
<i>“Stenosis and Fractures in the Elderly Patient”</i> Geriatric Trauma Summit Regions Hospital St. Paul, MN	September 6-8, 2007
<i>“Orthopaedic Macro Trauma” poster presentation”</i> Orthopaedic Trauma Association Annual Meeting Boston, Massachusetts.	October 18-20, 2007
<i>Fusion of the Sacroiliac Joint: New Technique and Functional Outcome</i> Poster Presentation American Academy of Orthopaedic Surgeons Annual Meeting San Francisco	March 6-10, 2008
<i>“The Physical Exam is More Sensitive than the Diagnostic Injection in Diagnosing Surgical Level Sacroiliac Pain”</i> Poster Presentation Spineweek- 9th International Meeting for Advanced Spine Techniques	

- Geneva, Switzerland May 26-31 2008
- “Physical Diagnosis of the Sacroiliac Joint”*  
North American Spine Society Annual Meeting  
San Francisco, California November 10-14, 2009
- “Distraction Interference Arthrodesis of the SI Joint New Experience and Fusion Method”*  
*Industry Seminar*  
Deutscher Wirbelsäulenkongress, ICM-Internationales Congress Center München  
Annual Meeting German Spine Society  
Munich, Germany December 10, 2009
- “Distraction-Interference-Arthrodesis”*, Diagnose, radiologische and praktische Übungen  
Institut für Rechtsmedizin, Universitätsklinikum  
Hamburg-Eppendorf, Germany January 26-27, 2010
- “Distractions-Interferenz Arthrodese”* [Distraction Interference Arthrodesis]  
Institute Of Anatomy and Musculoskeletal Research  
Salzburg/ Austria February 26-27, 2010
- Distraction-Interference-Arthrodesis*, Diagnose, Radiologische and Praktische Übungen  
Institut für Rechtsmedizin, Universitätsklinikum  
Hamburg-Eppendorf, Germany March 26-27, 2010
- Distraction-Interference-Arthrodesis*, Diagnose, Radiologische and Praktische Übungen  
Institut für Rechtsmedizin, Universitätsklinikum  
Hamburg-Eppendorf, Germany April 23-24, 2010
- “Distraction-Interference-Arthrodesis”*, Diagnose, Radiologische and Praktische Übungen  
Institut für Rechtsmedizin, Universitätsklinikum  
Hamburg-Eppendorf, Germany May 21-22, 2010
- “Distraction Interposition Arthrodesis of the Sacroiliac Joint”*  
7<sup>th</sup> World Congress Minimally Invasive Spine Surgery Technique  
Las Vegas, NV June 2, 2010
- “DIANA-Distraction-Interference-Arthrodesis”*, Diagnose, Radiologische and Praktische  
Übungen Institut für Rechtsmedizin, Universitätsklinikum  
Hamburg-Eppendorf, Germany June 25-26, 2010
- Sacroiliac Arthrodesis by Minimal Incision: Distraction Interposition Method.*  
Poster Presentation presented at the Society for Minimally Invasive Spine Surgery  
Miami, FL USA March, 2010
- Mini-dose Bone Morphogenic Protein in Sacroiliac Arthrodesis Surgery*  
Poster presented at the SAS10  
New Orleans, LA USA April 27, 2010
- Distraction Interposition Arthrodesis of the Sacroiliac Joint* Podium Presentation  
2nd World Congress of Minimally Invasive Spine Surgery and Techniques  
Las Vegas, NV USA June 1, 2010
- Sacroiliac Joint Pain: Sensitivity and specificity of four common signs and symptoms.*

- Podium Presentation presented at the 7th Interdisciplinary World Congress on Low Back and Pelvic Pain  
Los Angeles, CA USA November 9, 2010
- Sacroiliac Arthrodesis by Minimal Incision: Distraction Interposition Method, Short-term Outcomes*, Poster Presentation presented at the AANS/CNS Section on Disorders of the Spine and Peripheral Nerve  
Phoenix, Arizona USA March 9, 2011
- Extra-articular Sacroiliac Joint Arthrodesis by Minimal Incision Methods: 15 patients with one-year outcomes.*  
Poster presented at the Minnesota Orthopaedic Society  
Minneapolis, Minnesota, USA April 29, 2011
- Improved Imaging Protocols of the Sacroiliac Joint and Pelvic Brim: Proposed New Methods of Defining Extraspinal and Pelvic Causes of Back and Leg Pain*  
Poster presented at the Minnesota Orthopaedic Society  
Minneapolis, Minnesota USA April 29, 2011
- Clinical Decision Making, Differentiating Disabling Sacroiliac Pain from Axial Disc-Based Explanations*  
Podium presentation at the Minnesota Orthopaedic Society  
Minneapolis, Minnesota USA April 29, 2011
- Sacroiliac Arthrodesis by Minimal Incision Method: One-Year Outcomes*  
Podium Presentation at S.P.I.N.E. (Society for Progress and Innovation for the Near East)  
Annual Meeting 2011  
Beirut, Lebanon June 22-25, 2011
- Clinical Decision Making, Differentiating Disabling Sacroiliac Pain from Axial Disc Based Explanations.*  
Podium Presentation at S.P.I.N.E. (Society for Progress and Innovation for the Near East)  
Annual Meeting 2011  
Beirut, Lebanon June 22-25, 2011
- Distraction Interference Arthrodesis, Diagnosis, Radiological and Practical Exercise.*  
Training course- Ubungen Institut fur Rechtsmedizin, Universitätsklinikum  
Hamburg-Eppendorf, Germany July 21- 22, 2011
- The Sacroiliac Joint, Diseases, Physical Diagnosis, Non-Surgical and Surgical Treatment*  
Current Concept in Spinal Surgery  
Birmingham, England November 10-12 2011
- The Sacroiliac Joint, Disease Processes, Differential Diagnosis, History of Surgical Treatment*  
Grand Rounds, St. Josephs Hospital  
ST Paul, MN February 23, 2012
- DIANA- Arthrodesis de distracción e interferencia de la articulación sacroiliaca. Justificación y técnica (DIANA- Distraction-Interference Arthrodesis of the Sacroiliac Joint: Rationale and New Technique)*  
Podium Presentation IGASS Forum Mexico  
Guadalajara Jalisco, México March 1, 2012
- Fusión sacroiliaca y su contexto histórico: Lecciones de la historia del tratamiento de la articulación sacroiliaca y su uso en el método DIANA de distracción-interferencia. (Sacroiliac Fusion and its*

*Historical Context: Lessons from the History of SIJ surgical treatment and their use with DIANA Distraction Interference Method*

Podium Presentation IGASS Forum México  
Guadalajara Jalisco, México March 1, 2012

*Un año de seguimiento de la artrodesis sacroiliaca usando variaciones de la incisión mínimamente invasiva. (One Year Outcomes of the DIANA Sacroiliac Arthrodesis Using Minimal Incision Variation)*

Podium Presentation IGASS Forum Mexico  
Guadalajara Jalisco, México March 1, 2012

*Tomando decisiones clínicas: Diferenciar el dolor sacroiliaco regional del dolor de piernas frente a dolores axiales tradicionales de la columna (Clinical Decision Making. Discriminating SI Regional Pain and SI Related Leg Pain from Traditional Axial-based Spinal Complaints)*

Podium Presentation IGASS Forum México  
Guadalajara Jalisco, México March 1, 2012

*Diagnostico con tomografía de patologías sacroiliacas (CT-Diagnosis of Sacroiliac Pathologies)*

Podium Presentation IGASS Forum México  
Guadalajara Jalisco, México March 1, 2012

*Sacroiliac Fusion and its Historical Context: Lessons from the History of SIJ surgical treatment and their use with DIANA Distraction Interference Method*

Podium Presentation at the Scottish Spine Society  
ST. Andrews, Scotland March 2, 2012

*One Year Outcomes of the DIANA Sacroiliac Arthrodesis Using Minimal Incision Variation*

Podium Presentation at the Scottish Spine Society  
ST. Andrews, Scotland March 2, 2012

*Clinical Decision Making Discriminating SI Regional Pain and SI Related Leg Pain from Traditional Axial-based Spinal Complaints*

Podium Presentation at the Scottish Spine Society  
ST. Andrews, Scotland March 2, 2012

*CT-Diagnosis of Sacroiliac Pathologies*

Podium Presentation at the Scottish Spine Society  
ST. Andrews, Scotland March 2, 2012

*Sacroiliac Associated Nerve Impingement Syndrome as an Answer to Extraaxial Leg Pain*

Podium Presentation at the Scottish Spine Society  
ST. Andrews, Scotland March 2, 2012

*Sacroiliac Arthrodesis: A 100 case series*

Podium Presentation at the Minneapolis Orthopaedic Society  
2012 Annual Meeting  
St. Paul, Minnesota April 27, 2012

*Discriminating SI Regional Pain and SI-Related Leg Pain from Traditional Axial-based Spinal Complaints*

Podium Presentation at the South Africa Spine Society  
2012 Annual Meeting  
Pretoria, South Africa June 7, 2012

*Sacroiliac Fusion and its Historical Context: Lessons from the History of SIJ Surgical Treatment*



- Podium Presentation at the South African Spine Society  
2012 Annual Meeting  
Pretoria, South Africa June 8, 2012
- Radiologic Review, Clinical Examination and Differential Diagnosis*  
Podium Presentation at the Winter Clinics for Cranial and Spine Surgery  
Presented by: Mayfield Clinic, Mayo Clinic, Cleveland Clinic,  
Goodman Campbell Brain and Spine  
2014 Annual Meeting  
Westin Snowmass, Colorado February 25, 2014
- Review and Lessons from History of Sacroiliac Fusion*  
Podium Presentation at the Winter Clinics for Cranial and Spine Surgery  
Presented by: Mayfield Clinic, Mayo Clinic, Cleveland Clinic,  
Goodman Campbell Brain and Spine  
2014 Annual Meeting  
Westin Snowmass, Colorado February 25, 2014
- Minimally Open Posteromedial, Distraction-interference Approach to Fusion*  
Podium Presentation at the Winter Clinics for Cranial and Spine Surgery  
Presented by: Mayfield Clinic, Mayo Clinic, Cleveland Clinic,  
Goodman Campbell Brain and Spine  
2014 Annual Meeting  
Westin Snowmass, Colorado February 25, 2014
- The Painful Sacroiliac Joint: Pathophysiology, Surgical History and Arthrodesis by Mini-Open, Distraction – Interference Approach*  
Podium Presentation IV World Congress Minimally Invasive Spine Surgery  
Paris France June 12, 2014
- Distraction Interference Arthrodesis Neurovascular Anticipated; 24 Months Outcomes*  
Podium Presentation Co-Author  
General Session  
2014 German Spine Society Annual Meeting  
Leipzig, Germany December 12, 2014
- Sacroiliac Joint Fusion Neurovascular Implications;*  
Sacro Iliac Medical Expert Group (SIMEG)  
Leipzig, Germany December 12, 2014
- Success and failure of SIJ arthrodesis- Lessons from history regarding surgical approach to address the mechanics and forces of the painful SIJ*  
ICSJS – International Conference (SIMEG)  
Hamburg, Germany September 18, 2015
- Neurovascular Consequences and Comorbidities*  
ICSJS – International Conference (SIMEG)  
Hamburg, Germany September 19, 2015
- Sacroiliac disease and clinical presentations. Sacroiliac nerve and vascular anatomy. Salvage surgery of the Sacroiliac Joint*  
Auatria Spine Society  
Salzburg, Austria May 21, 2016

*The need to further define neurovascular anatomy near the Sacroiliac Joint. Possible compression of the lumbosacral plexus and implications for differential diagnosis for spinal radiculopathies*

Course with practical Exercises on Anatomic Specimens

Graz, Austria

September 17, 2017

*Extraarticular SIJ Arthrodesis by a New Minimal incision Method: 100 Patients With One-Year Outcomes*

XV. VYROČNÍ KONGRES, ČESKÉ SPONDYLOCHIRURGICKÉ, SPOLEČNOSTI ČLS JEP, ASLOVENSKÉ, SPONDYLOCHIRURGICKÉ, SPOLEČNOSTI, s mezinárodní účastí

Pilsen, Czech Republic

October 16, 2017

*Compression of the Lumbosacral Trunk And S1 Nerve Root by Branches of the Internal Iliac Artery. A Potential Source of Sciatic Pain*

XV. VYROČNÍ KONGRES, ČESKÉ SPONDYLOCHIRURGICKÉ, SPOLEČNOSTI ČLS JEP, ASLOVENSKÉ, SPONDYLOCHIRURGICKÉ, SPOLEČNOSTI, s mezinárodní účastí

Pilsen, Czech Republic

October 16, 2017

### ***Consultant***

Blue Cross Blue Shield of Minnesota	2002
Peer Review Consultant	
Preferred One Provider Organization	2002
Peer Review Consultant	
Medica	2004
Peer Review Consultant	
Signus GmbH	2009-2012
Expert Surgeon, Lecturer, Researcher, Surgical Instructor	
Signus LLC	2010 - 2012
Researcher	
Lilly USA	2011 - 2017
Speaker Bureau	
Sacroiliac Research Foundation	2006 - Present
Founder, Researcher	
Sacro Iliac Medical Expert Group (SIMEG)	2016 - Present
Expert Consultant, Medico-legal Controversies	2013 – Present

### ***Patents Held***

Tools for performing less invasive orthopaedic joint procedures	Patent No. US 8740912B2
Instrumented Orthopedic Restraining Device and Method of Use	Patent No. 5,052,375
Instrumented Orthopedic Restraining Device and Method of Use	Patent No. 5,368,546
Instrumented Orthopedic Restraining Device and Method of Use	Patent No. 5,484,389
Local Monitoring System for an Instrumented Restraining System And Method Thereof	Patent No. 5,823,975
Communication System for an Instrumented Orthopaedic Restraining Device and Method Thereof	Patent No. 5,929,782
Bone Marrow Harvesting Systems and Methods and Bone Biopsy Systems and Methods	Patent No. 5456267
An Orthopedic Device Supporting Two or More Treatment Systems and Associated Methods	Patent No. 08/442,945
Remote Monitoring of an Instrumented Orthosis	Patent No. 09/226,866

Rehabilitative Orthosis (Shoulder/Stroke Brace)	Patent No. 09/339,071
Application, System for Medical Protocol Management	Patent No. 09/416,192
Database Management for a Treatment System	Patent No. 09/968,595
Orthoses (Instrumented Spine Brace)	Patent No. 10/403,650
System for Medical Protocol Management	Patent No. 10/854,400
Remote Psychological Evaluation	Patent No. 10/997,737
Orthoses for Joint Rehab Continuation of Orthoses for Joint Rehab	Patent No. 11/017,593
Drill Guide Apparatus and Methods Including Selected Guides	Patent No. 60/449,170
Communication System for an Instrumented Orthopaedic Restraining Device and Method Thereof	Patent No. 6,184,797
Method for Optimizing Isometric Exercise	Patent No. 6,296,595
System for Orthopaedic Treatment Protocol and Method of Use Thereof	Patent No. 6,371,123
Communication System for an Instrumented Orthopaedic Restraining Device and Method Thereof	Patent No. 6,515,593
Orthoses	Patent No. 6,540,707
System for Medical Protocol Management	Patent No. 6,827,670
Orthoses for Joint Rehabilitation	Patent No. 6,872,187
Instrumental Accelerometers for patient monitoring	Patent No. 20010020143
Database Management for an Orthopaedic Treatment System	Patent No. 20020029784
Sacroiliac Joint Immobilization	Patent No. US 8734456B2
Sacroiliac Joint Immobilization	Patent No. US 8454618B2
Use of Selective Estrogen Receptor Modulator for Joint Fusion	Patent No. US 8501690B2
Sacroiliac joint Immobilization	Patent No. US 7648509B2
Bone Implants for Orthopedic Procedures and Corresponding Methods	Patent No. US 9345589B2

### ***Continuing Medical Education***

- 1985      American Academy of Orthopedic Surgeons Annual Meeting  
The Orthopedic Spine: Spine Problems, University Of Minnesota  
Arthroscopy Association of North America  
Anterior Cruciate Ligament
- 1986      American Academy of Orthopedic Surgeons Annual Meeting  
Cole-Chatterton Memorial Symposium  
Plate Fixation of the Lumbar Spine  
Orthopedic Surgery: Shoulder and Elbow  
Midas Rex Psychomotor Orthopedic Workshop
- 1987      Orthopedic Grand Rounds, Minneapolis Veterans Administration  
American Academy of Orthopedic Surgeons Annual Meeting  
Cole-Chatterton Pediatric Orthopedic Seminar  
Medical Problems of Musicians and Dancers  
Orthopedic Surgery: The Knee  
Orthopedic Grand Rounds, Minneapolis Veterans Administration
- 1988      Orthopedic Trauma Association Hip Replacement, Harvard Medical School  
The 22nd Annual Orthopedic and Trauma Seminar  
The Challenge of the Lumbar Spine
- 1989      American Academy of Orthopedic Surgeons, 56th Annual Meeting  
Ortho Overview: Pre/Intra/ Post Op  
Clinical Applications of Musculoskeletal Allograft
- 1990      Advanced Pedicle Fixation of the Lumbar Spine

International Congress of Clubfeet  
SRS/North American Spine Society Advanced Pedicle Fixation of the Lumbar Spine

- 1991 Occupational Spinal Disorders: Prevention, Diagnosis & Treatment
- 1992 The 7th Annual Worker's Compensation Institute
- 1994 The Challenging Lumbar Spine Fusion, January  
Keystone Spine Conference, January  
North American Spine Society Annual Meeting, October
- 1995 Orthopedic Research Society, February  
American Academy of Orthopedic Surgeons Annual Meeting, February  
North American Spine Society Annual Meeting, October  
Minnesota Orthopedic Trauma Association Public Radio, Open Forum for Orthopedists and  
Chiropractic Orthopedic Research Society  
Second Interdisciplinary World Congress on Low Back Pain, U of California
- 1996 American Academy of Orthopedic Surgeons Annual Meeting, February  
Orthopedic Research Society, Annual Meeting  
John Hopkins University School of Medicine: Interface of Biomechanics & Cell Biology,  
North American Spine Society Annual Meeting, October
- 1997 American Academy of Orthopedic Surgeons Annual Meeting, February  
Orthopedic Research Society, Annual Meeting, February  
North American Spine Society Annual Meeting, October
- 1998 American Academy of Orthopedic Surgeons Annual Meeting, March  
Orthopedic Research Society, Annual Meeting, March  
North American Spine Society Annual Meeting, October
- 1999 American Academy of Orthopedic Surgeons Annual Meeting, February  
Orthopedic Research Society, Annual Meeting, February  
North American Spine Society Annual Meeting, October
- 2000 Hennepin County Orthopedic Learning Center: Genzyme Tissue Repair and Primary Surgical  
Carticel Training, February  
American Academy of Orthopedic Surgeons Annual Meeting, March  
Orthopedic Research Society Annual Meeting, March  
International Cartilage Repair Society ICRS 3<sup>rd</sup> Symposium, April  
Minnesota Orthopedic Society Sixteenth Annual Meeting, May  
AOSSM Annual Meeting, June 2000  
North American Spine Society Annual Meeting, October
- 2001 American Academy of Orthopedic Surgeons Annual Meeting, February  
Orthopedic Research Society, Annual Meeting, February  
North American Spine Society Annual Meeting, October
- 2002 American Academy of Orthopedic Surgeons Annual Meeting, February  
Orthopedic Research Society, Annual Meeting, February  
North American Spine Society Annual Meeting, October
- 2003 Orthopedic Research Society, Annual Meeting, February

Upstate Medical University Course, April  
Minnesota Orthopedic Association Meeting, May  
American Academy of Orthopedic Surgeons Annual Meeting, February  
Orthopedic Trauma Association Meeting, October  
North American Spine Society Annual Meeting, October

- 2004  
American Academy of Orthopedic Surgeons - Annual Meeting  
Orthopedic Research Society, Annual Meeting, Miami, FL  
North American Spine Society, Annual Meeting, Chicago IL  
Orthopedic Trauma Association, Annual Meeting Fort Lauderdale FL  
American Academy of Orthopedic Surgeons, Annual Meeting  
Orthopedic Trauma Association, Annual Meeting  
North American Spine Society, Annual Meeting  
Orthopedic Trauma Association, Annual Meeting Ottawa, Ontario, Canada  
AO ASIF Spine Trauma Symposium – Orlando, FL
- 2006  
SEOT- International Course- Ecuador  
North American Spine Society - Annual Meeting  
Interbody Fusion Techniques Workshop  
Orthopedic Research Society, Annual Meeting  
Orthopedic Trauma Association, Annual Meeting
- 2007  
American Academy of Orthopedic Surgeons Annual Meeting, February 10-18, 2007  
AOA Kellogg- Mod II January 26-28, 2007 Evanston, Illinois  
Geriatric Trauma Summit September 6-8, St. Paul, MN  
MOS Meeting May 11, 2007  
Orthopedic Research Society, Annual Meeting  
North American Spine Society - Annual Meeting, October 23-27, 2007 Austin, Texas  
Orthopedic Trauma Association, Annual Meeting, 18-20, 2007 Boston, Massachusetts  
Your Innovative Idea: Technology Development Options  
Coding Update 2008: Essentials & Controversies of  
Operative & Nonoperative Spine Care Coding
- 2008  
SPINE (International Meeting Advanced Spine Techniques)  
SpineWeek, Geneva, Switzerland, May 26-31 2008  
American Academy of Orthopedic Surgeons - Annual Meeting  
Orthopedic Research Society - Annual Meeting  
North American Spine Society - Annual Meeting  
Coding Update 2008: Essentials & Controversies of
- 2009  
SYNTHES Spine– Pro Disc Training: Certification to perform cervical and lumbar Orthopedic  
Trauma Association disc replacements; Dallas, TX; Denver, CO  
American Academy of Orthopedic Surgeons - Annual Meeting  
Orthopedic Research Society - Annual Meeting  
North American Spine Society - Annual Meeting
- 2010  
American Academy of Orthopedic Surgeons - Annual Meeting  
AAOE (American Academy of Orthopedic Executive) - Annual Meeting  
Orthopedic Research Society- Annual Meeting  
North American Spine Society - Annual Meeting  
CNS (Congress of Neurological Surgeons) - Annual Meeting  
German Orthopaedic Society- Annual Meeting

- 2011 American Academy of Orthopedic Surgeons - Annual Meeting  
AANS (American Association of Neurological Surgeons - Annual Meeting  
MOS (Minnesota Orthopedic Society) - Annual Meeting  
American Academy of Orthopedic Executives – Annual meeting  
Eurospine- Annual Meeting  
German spine Society Annual Meeting  
Society for Progress and Innovation for the Near East.-Annual Meeting, Beirut Lebanon  
Boston University School of Medicine, Annual Symposium on Current Concepts in orthopedics
- 2012 MOS (Minnesota Orthopedic Society) - Annual Meeting  
SASS (South African Spine Society) - Annual Meeting  
Orthopedic Research Society - Annual Meeting  
American Academy of Orthopedic Surgeons - Annual Meeting  
Mid America - Annual Meeting  
Eurospine – Annual Meeting
- 2013 American Academy of Orthopedic Surgeons - Annual Meeting
- 2014 Cranial and Spine Surgery - Winter Clinics  
American Academy of Orthopedic Surgeons - Annual Meeting  
IV World Congress Minimally Invasive Spine Surgery – Annual Meeting  
North American Spine Society - Annual meeting  
North American Spine Society Coding Update 2014  
German Spine Society – Annual Meeting
- 2015 ICSJS- SIMEG Annual Meeting  
NASS- Annual Meeting  
SIMEG- Annual Meeting  
Spine Foundation- Annual Meeting
- 2016 Wirbelsäulentagung in Medizinischen Zentrum Bad Vigaun  
Das Iliosakalgelenk, Terra Incognita?  
SIMEG- Annual Meeting  
AAOS- Annual Meeting
- 2017 XV. VYROČNÍ KONGRES, ČESKÉ SPONDYLOCHIRURGICKÉ, SPOLEČNOSTI ČLS JEP,  
ASLOVENSKÉ, SPONDYLOCHIRURGICKÉ, SPOLEČNOSTI, s mezinárodní účastí  
SIMEG- Annual Meeting  
AAOS- Annual Meeting
- 2018 SIMEG- Annual Meeting  
AAOS- Annual Meeting  
Cervical Spine Research Society Hands-On Cadaver Course