

University of Alabama at Birmingham
School of Medicine Faculty

May 14, 2003

PERSONAL INFORMATION:

Name: John S. Kirkpatrick
Address: 940 Faculty Office Tower
510 20th Street South
Birmingham, Alabama 35294

Phone: (205)975-9694 (Office)
(205)975-4701 (fax)

RANK/TITLE: Associate Professor
School of Medicine
Department of Surgery
Division of Orthopaedic Surgery

Associate Professor
School of Engineering
Department of Biomedical
Engineering

**HOSPITAL AND OTHER APPOINTMENTS, PROFESSIONAL
CONSULTANTSHIPS:**

University Hospital, Attending Birmingham, AL	1992-
Veterans' Administration Hospital Birmingham, AL Chief, Orthopaedic Surgery	1992- 1995-
Childrens' Hospital of Alabama, Courtesy (Affiliate with admitting) Birmingham, AL	1992-
Food and Drug Administration CDRH Orthopaedic and Rehabilitation Devices Panel Rockville, Maryland	2002-6

EDUCATION:

Duke University B.S. Biomedical Engineering
Durham, N.C.

University of CA M.S.E. Bioengineering
La Jolla, CA

Bowman Gray School
of Medicine M.D.
Winston-Salem, N.C.

LICENSURE: (current or expired)

North Carolina
Ohio
California
Alabama
Kenya

BOARD CERTIFICATION:

National Board of Medical Examiners
American Board of Orthopaedic Surgery
American Board of Orthopaedic Surgery (recertification)

POST DOCTORAL TRAINING:

First Year Surgical Resident	Duke University
Junior Assistant Resident	Duke University
Resident in Orthopaedic Surgery	Duke University
Chief Orthopaedic Resident	Duke University
Orthopaedic Fellow, Spine	Case Western Reserve University

ACADEMIC APPOINTMENTS:

1992 - 97	Assistant Professor	University of Alabama, Birmingham School of Medicine Department of Surgery
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1992 -	Faculty	Injury Control Research
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		Center University of Alabama, Birmingham
1993 -	Assistant Professor	University of Alabama, Birmingham School of Engineering Biomedical Engineering
1993-2002	Director	Biomechanics Laboratory Veterans' Administration Hospital
1994 -	June,2001 Director	Resident Education Div. Orthopaedic Surgery University of Alabama, Birmingham
1997 -	Associate Professor	University of Alabama, Birmingham School of Medicine Department of Surgery
2002-	Oral examiner	American Board of Orthopaedic Surgery

AWARDS/HONORS:

Sigma Xi Student Research Award

Cabaud Memorial Award
American Orthopaedic Society for Sports Medicine

Resident Award Paper (co-author)
Cervical Spine Research Society

John J. Fahey Memorial North American Traveling
Fellowship of the American Orthopaedic Association

Joseph S. Barr Award
American Society for Testing and Materials

Leadership Fellows Program

American Academy of Orthopaedic surgeons

PROFESSIONAL SOCIETIES:

Academic Orthopaedic Society

American Orthopaedic Association

American Academy of Orthopaedic Surgeons, Fellow

Biomedical Engineering Committee, 1998-2001, 2001-2004

Chairman, 2002-5

Reviewer, Journal of the American Academy of Orthopaedic Surgeons

American Society for the Testing of Materials Committee F04 Co-chair, Division III
on Spinal Devices

User Vice-Chair 2000-2001

User vice Chair 2002-2003

Symposium Co-chair, Workshop on Spinal Implants, Orlando, FL 1996

Workshop Co-Chair, Workshop on Bone Graft Substitutes Orlando, FL 2000

Symposium Co-Chair, Symposium on Spinal Implants: Are We Evaluating Them
Appropriately? Dallas, TX 2001

International Society for the Study of the Lumbar Spine

Mid-America Orthopaedic Association

Moderator, Annual Meeting 1999: Spine

North American Spine Society

Orthopaedic Research Society

Moderator, Annual Meeting 1997: Spine Fusion

Moderator, Annual Meeting 2000: The Spine

Piedmont Orthopaedic Society

Southern Orthopaedic Association

Nominating Committee "at large" member 1998, 2000, 2001

Planning committee: Hot Topics in Cold Weather II.

Aspen, CO 3/27 to 4/3/99

Councilor for Alabama 2000-2002

MEMBERSHIPS

American College of Surgeons

Charles Herndon Society

Christian Medical and Dental Society

Jefferson County Orthopaedic Society

Medical Association of the State of Alabama

Sigma Xi Research Society ---

COUNCILS AND COMMITTEES:

Kirklin Clinic Rehabilitation Committee (1992-1993)
Task Force on Work Hardening

Jefferson County Orthopaedic Society
Secretary/Treasurer (1996-)

Orthopaedic Research and Education Foundation
Medical Director for Alabama

American Academy of Orthopaedic Surgeons
Biomedical Engineering Committee 1998-2001, 2001-2004
Chairman, 2002-2005
Council on Research 2002-2005
Device Forum 2002-2005

International Standards Organization (ISO)
Chairman, Osteosynthesis Subcommittee (Subcommittee 5 of
Technical committee 150)1999-

Public Health Service, Food and Drug Administration
Member, Orthopaedic and Rehabilitation Devices Panel,
Medical Devices Advisory Committee. Nov. 2002-Aug. 2006

UNIVERSITY ACTIVITIES:

Center for Aging 1994 Intramural Grant Program (Reviewer)

Conflict of Interest Review Board
University of Alabama at Birmingham (1996-2000)

Faculty Senate (alternate) 1998-99

School of Medicine

Search Committee, Department of Rehabilitation Chairman
University of Alabama at Birmingham
April 1994-December 1995

Curriculum Activities

1992 -2001 Course Director, Spine Conference (Residency)
1993 - Course Director, Basic Science Conference

- (Residency)
- 1994 -2001 Director, Resident Education
- 1995 OSCE Examiner, 2nd and 3rd year medical students
- 1996 Course Director: Management of Back Pain
Syndromes, Birmingham, AL 3/16/96 (CME)
- 1996,7,8 Small group Instructor, Physical Diagnosis of the
Musculoskeletal System (medical students)
- 1998- Course Director, Ethics Conference (Residency)

School of Engineering

Search Committee, Chairman of the Department of Mechanical
Engineering, University of Alabama at Birmingham

EDITORIAL BOARD MEMBERSHIPS:

The Journal of Bone and Joint Surgery
Consultant Reviewer

Journal of the Southern Orthopaedic Association,
Editorial Board Member

American Journal of Orthopaedics
Editorial Board Member

MAJOR LECTURES AND VISITING PROFESSORSHIPS:

- 9/19/92 University of Alabama, Birmingham, "Thoracolumbar
Fractures", Orthopaedic Grand Rounds
- 10/21/92 University of Alabama, Birmingham, "Arthritis of
the Spine", Rheumatology Grand Rounds
- 4/10/93 University of Alabama, Birmingham, "Surgical
Treatment of Spinal Deformity", General Surgery
Grand Rounds
- 9/28/93 Toronto Hospital for Sick Children
"Considerations in the Management of Thoracolumbar
Fractures"
- 10/4/93 Beth Israel Hospital

- "Kinematics of the Cervical Spine following Fusion"
- 10/7/93 New York Academy of Medicine
"Considerations in the Management of Thoracolumbar Fractures"
- 10/11/93 Thomas Jefferson University/Rothman Institute
Orthopaedic Grand Rounds
"Kinematics of the Cervical Spine following Fusion"
- 10/11/93 University of Pennsylvania
"Kinematics of the Cervical Spine following Fusion"
- 10/13/93 University of Pittsburgh Orthopaedic Grand Rounds
"Reconstruction of the Anterior Cruciate Ligament with Anatomic Allografts"
- 10/21/93 Charlotte Memorial Hospital Orthopaedic Grand Rounds
"Kinematics of the Cervical Spine following Fusion"
- 10/22/93 Medical University of South Carolina
"Kinematics of the Cervical Spine following Fusion"
- 10/26/93 Emory University of Orthopaedic Grand Rounds
"Kinematics of the Cervical Spine following Fusion"
- 11/20/93 University of Alabama, Birmingham, "Surgical Treatment of Cervical Spine Disorders",
Orthopaedic Grand Rounds
- 3/11/94 University of Alabama, Birmingham, "Thoracolumbar Fractures", Spain Rehabilitation Grand Rounds
- 3/16/94 University of Alabama, Birmingham, "Surgical Management of Lumbar Disorders", Rheumatology Grand Rounds

- 11/2/94 Bowman Gray School of Medicine Orthopaedic Grand Rounds "Cervical Spine Trauma"
- 2/16/95 University of Alabama, Birmingham, "Surgical Indications for the Lumbar Spine", Geriatrics Grand Rounds
- 3/10/95 National Association of Orthopaedic Nurses, Birmingham Chapter, Workshop
- 3/11/95 University of Alabama, Birmingham, "Lumbar Spinal Stenosis", Orthopaedic Grand Rounds
- 3/29/95 Bowman Gray School of Medicine, "Case Presentations", Orthopaedic Grand Rounds
- 4/20/95 Selma Family Medicine, "Oh, My Aching Back: Evaluation and Management of Low Back Pain"
- 4/22/95 Orthopaedics for Primary Care Physicians, Birmingham, Alabama, "Back Pain: Care and Management"
- 5/26/95 Primary Care Medicine Today, Bermuda, "Oh, My Aching Back: Evaluation and Management of Lower Back Pain"
- 5/26/96 Primary Care Medicine Today, Bermuda, "Oh, My Aching Back: Evaluation and Management of Lower Back Pain"
- 12/8/95 University of Alabama, Birmingham, "Spinal Stenosis", Spain Rehabilitation Grand Rounds
- 2/12/96 17th Annual International Conference in Continuing Medical and Dental Education, Kenya. Sponsored by the Christian Medical and Dental Society. "Osteomyelitis"
- 2/13/96 17th Annual International Conference in Continuing Medical and Dental Education, Kenya. Sponsored by the Christian Medical and Dental Society. "Evaluation of Low Back Pain"

- 2/14/96 17th Annual International Conference in Continuing Medical and Dental Education, Kenya. Sponsored by the Christian Medical and Dental Society. "Osteomyelitis of the Spine"
- 2/15/96 17th Annual International Conference in Continuing Medical and Dental Education, Kenya. Sponsored by the Christian Medical and Dental Society. "Evaluation of Neck Pain"
- 2/16/96 17th Annual International Conference in Continuing Medical and Dental Education, Kenya. Sponsored by the Christian Medical and Dental Society. "Fundamentals of the AO/ASIF Technique"
- 2/22/96 17th Annual International Conference in Continuing Medical and Dental Education, Kenya. Sponsored by the Christian Medical and Dental Society. Tenwek Hospital, Bomet, Kenya Weekly CME Lecture, "Oh, My Aching Back: Evaluation and Management of Low Back Pain"
- 2/29/96 17th Annual International Conference in Continuing Medical and Dental Education, Kenya. Sponsored by the Christian Medical and Dental Society. Tenwek Hospital, Bomet, Kenya Weekly CME Lecture, "Oh, What A pain in the Neck: Evaluation and Management of Neck Pain"
- 10/12/96 University of Alabama, Birmingham, "Spine Trauma", General Surgery Grand Rounds
- 1/25/97 18th Annual International Conference in Continuing Medical and Dental Education, Malaysia. Sponsored by the Christian Medical and Dental Society. "Oh, What a Pain in the Neck: Evaluation and Surgical Indications in Neck Pain"
- 1/27/97 18th Annual International Conference in Continuing Medical and Dental Education, Malaysia. Sponsored by the Christian Medical and Dental Society. "Oh, My Aching Back: Evaluation and Surgical Indications in Low Back Pain"
- 1/28/97 18th Annual International Conference in Continuing Medical and Dental Education, Malaysia. Sponsored by the Christian Medical and Dental Society. "Basic AO/ASIF Techniques"
- 1/29/97 18th Annual International Conference in Continuing Medical and Dental Education, Malaysia. Sponsored by the Christian Medical and Dental Society. "Osteomyelitis of the Spine"

- 1/30/97 18th Annual International Conference in Continuing Medical and Dental Education, Malaysia. Sponsored by the Christian Medical and Dental Society. "Osteomyelitis"
- 2/8/97 University of Alabama at Birmingham CME Course - Orthopaedics for Primary Care Physicians, Montgomery, AL. "Oh, My Aching Back: Evaluation and Surgical Indications in Low Back Pain". Injections and examinations instructor.
- 4/24/98 University of Alabama, Birmingham, "Evaluation and Surgical Management of Low Back Pain", Spain Rehabilitation Grand Rounds.
- 9/16/98 University of Alabama, Birmingham, "Spinal Deformity in Spondyloarthropathy-Rheumatoid Arthritis and Ankylosing Spondylosis" Rheumatology Grand Rounds.
- 1/13/99 University of Arizona, Orthopedic Conference "Osteomyelitis of the Spine"
- 3/12/99 Southern Medical Association: The 4th Conference on Pain Management – Strategies for Improving Outcomes. "Differential Diagnosis of Low Back Pain"
- 3/31/99 Southern Orthopaedic Association: Hot Topics in Cold Weather II. "Spine Injuries in the Athlete"
- 5/11/99 Carraway Medical Center-Bessemer: CME program "Oh, What a Pain in the Neck: Evaluation, Management, and Surgical Indications in Neck Pain"
- 6/18/99 University of Maryland, Grand Rounds for Orthopaedic Surgery, "Osteomyelitis of the Spine"
- 11/8/01 Texas Spine Study Group, Dallas, TX "Standards for Spinal Implants: Are We Testing them Appropriately?"
- 9/27/02 Food and Drug Administration, Center for Devices and Radiological Health(CDRH) Staff College. The Spine: What is it, What does it do & What can go wrong?
- 10/23/02 Christian Medical Ministry of Alabama, Pizza and Perspective "Yours or Theirs: Professionalism in Medicine"

BIBLIOGRAPHY:

Manuscripts:

Kirkpatrick, J.S., Clarke, I.C., Amstutz, H.C., Jinnah, R.H.: Radiographic Techniques for Consistent Visualization of Total Hip Replacements. *Clinical Orthopaedics and Related Research* 174:158, 1983.

Amstutz, H.C., Ouzonian, T., Grauer, D., Flink, C., **Kirkpatrick, J.**, Bassett, L: The Grid Radiograph. A Simple Technique for Consistent High Resolution Visualization of the Hip. *Journal of Bone and Joint Surgery* 67A(7):1052-1056, Sept. 1986.

Kirkpatrick, J.S., Gower, D., Chauvenet, A., Kelly, D.: Subgaleal Hematoma in a Child Without Skull Fracture. *Developmental Medicine and Child Neurology* 28:511-514, 1986.

Kirkpatrick, J.S., Koman, L.A., Rovere, G.D.: The Role of Ultrasound in the Early Diagnosis of Myositis Ossificans, A Case Report. *The American Journal of Sports Medicine* 15(2):179-181, 1987.

Kirkpatrick, J.S., Callaghan, J.J., Vandemark, R.M., Goldner, R.D.: The Relationship of the Intrapelvic Vasculature to the Acetabulum: Implications in Screw Fixation Acetabular Components. *Clinical Orthopaedics and Related Research* 258:183-190, 1990.

Kirkpatrick, J.S., Goldner, J.L., and Goldner, R.D.: Revision Arthrodesis for Tibiotalar Pseudarthrosis. *Clinical Orthopaedics and Related Research* 268:29-36, 1991.

Bassett, F.H., **Kirkpatrick, J.S.**, Engelhardt, D.L., Malone, T.R.: Cryotherapy Induced Nerve Injury. *American Journal of Sports Medicine* 20(5):516-518, 1992.

Kirkpatrick, J.S., Moloney, E.J., and Richardson, W.J.: Internal Fixation of the Lumbar Spine: Evaluation of a Protocol for System Selection. *Journal of the Southern Orthopaedic Association* 2(3):147-154, 1993.

Kirkpatrick, J.S., and Hadley, M.N.: Autograft vs. Alloimplant Bone as Substrate for Spinal Fusion. *Perspectives in Neurological Surgery* 4(2):38-48, 1993.

Bohlman, H.H., **Kirkpatrick, J.S.**, Delamarter, R.B., and Leventhal, M.: Anterior Decompression for Late Pain and paralysis Following Fractures of the Thoracolumbar Spine. *Clinical Orthopaedics and Related Research* 300:24-29, 1994.

Kirkpatrick, J.S., Bolesta, M.J., Biro, C., Bohlman, H.H.: Axonal Regeneration after Decompression of the Conus Medullaris: A Canine Model. *Spine* 19(21):2433-2435, 1994.

Boden, S.D., Martin, C., Rudolph, R., **Kirkpatrick, J.S.**, Moeini, R., Hutton, W.C.: Increase of Motion Between Lumbar Vertebrae after Excision of the Capsule and Cartilage of the Facets. *J. Bone Joint Surg.* 76A(12):1847-1853, 1994.

Ghavam, C., **Kirkpatrick, J.S.**: Extension-Distracted Fracture of the First Lumbar Vertebra. *Spine* 20(9):1080-1083, 1995.

Kirkpatrick, J.S., Wilber, R.G., Likavec, M., Emery, S.E., and Ghanayem, A.: Anterior Stabilization of Thoracolumbar Burst Fractures Using the Kaneda Device: A Preliminary Report. *Orthopaedics* 18(7):673-678, 1995.

Kirkpatrick, J.S.: Oh, My Aching Back: Evaluation and Surgical Treatment of Lumbar Spine Disorders. *Southern Medical Journal* 89(10):935-939, 1996.

Kirkpatrick, J.S., Glisson, R.R., Seaber, A.V., Bassett, F.H.: Cryopreserved Anatomic Allograft Anterior Cruciate Ligament Reconstruction. *Journal of the Southern Orthopaedic Association* 5(1):20-29, 1996.

Fuller, D.A., **Kirkpatrick, J.S.**, Emery, S.E., Wilber, R.G., Davy, D.: A Kinematic Study of the Cervical Spine Before and After Segmental Arthrodesis. *Spine* 23(15):1649-1656, 1998.

Kirkpatrick, J.S., Levy, J.A., Carillo, J., and Moeini, S.R.: Reconstruction After Multilevel Corpectomy in the Cervical Spine: A Sagittal Plane Biomechanical Study. *Spine* 24(12):1186-1190, 1999.

Molz, F.J., **Kirkpatrick, J.S.**, Moeini, S.R., Partin, J.I., and Bidez, M.W.: Effects of Kyphosis and Lordosis on the Remaining lumbar Vertebral Levels Within a Thoracolumbar Fusion: An Experimental Study of the Multisegmental Human Spine. *Journal of the Southern Orthopaedic Association* 8(4):261-268, 1999.

Molz, F.J., Partin, J.I., **Kirkpatrick, J.S.**: The Acute Effects of Posterior Fusion Instrumentation on Kinematics and Intradiscal Pressure of the Human Lumbar Spine. *Journal of Spinal Disorders & Techniques* 16(2):171-179, 2003.

Kirkpatrick, J.S.: The Anterior Approach in the Management of Thoracolumbar Burst Fractures. In Press, *Journal of the American Academy of Orthopaedic Surgeons*.

Clayton, B., MacLennan, P.A., McGwin, G., Rue, L., **Kirkpatrick, J.S.**: Cervical Spine Injury and Restraint System Use in Motor Vehicle Collisions. In Press, *Spine*

BOOKS

EDITED:

In Press and deleted.

CHAPTERS:

Kirkpatrick, J.S., Ghavam, C.: "Injuries to the Spinal Column." in Primary Care Orthopaedics, V.R. Masear, editor. W.B. Saunders, Philadelphia, 1996.

Kirkpatrick, J.S., "Spinal Cord Injury" in Primary Care Orthopaedics, V.R. Masear, editor. W.B. Saunders, Philadelphia, 1996.

Kirkpatrick, J.S., "Standards Development perspectives on the Use of Bone Graft Substitutes Based Upon Allografts" in Bone Graft Substitutes, Cato laurencin, editor. ASTM International, West Conshohocken, PA, 2003.

In press and deleted.

In press and deleted.

ABSTRACTS:

Clarke, I.C., **Kirkpatrick, J.S.**, Miller, B.D., Amstutz, H.C.: Troubleshooting Muller Radiographic Wear Measurements, Transactions of the 25th Annual Meeting of the Orthopaedic Research Society, 1979.

McKellop, H.A., **Kirkpatrick, J.S.**, Markolf, K.M., Amstutz, H.C.: Abrasive Wear of Ti-6 Al-4 Prostheses by Acrylic Cement Particles, Transactions of the 26th Annual Meeting of the Orthopaedic Research Society, 1980.

Kirkpatrick, J.S., Koman, L.A.: The Role of Ultrasound in the Diagnosis of Myositis Ossificans - A Pilot Study, Transactions of the 31st Annual Meeting of the Orthopaedic Research Society, 1985.

Kirkpatrick, J.S., Callaghan, J.J., Vandemark, R.M., Stranne, S.K., Goldner, R.D.: The Relationship of the Intrapelvic Vasculature to the Acetabulum: Implications in Screw Fixation Acetabular Components. Orthopaedic Transactions 14(1):106, 1990.

Kirkpatrick, J.S., Glisson, R.R., LeCara, G., Seaber, A.V., and Bassett, F.H., III,: Biomechanical Histological, and Microvascular Properties of Cryopreserved ACL Allografts 3 and 6 Months Post-Transplantation. Transactions of the 36th Annual Meeting of the Orthopaedic Research Society, 1990.

Kirkpatrick, J.S., Glisson, R.R., LeCara, G., Seaber, A.V., and Bassett, F.H., III.: Biomechanical, Histological, and Microvascular properties of Cryopreserved ACL Allografts 3 and 6 Months Post-Transplantation. *Orthopaedic Transactions* 14(2):332, 1990.

Kirkpatrick, J.S., Seaber, A.V., Glisson, R.R., Bassett, F.H.: Biomechanical, Clinical, and Histologic Properties of Cryopreserved ACL Allografts 9 months Post-Transplantation. *Transactions of the 37th Annual Meeting of the Orthopaedic Research Society*, 1991.

Stranne, S.K., **Kirkpatrick, J.S.**, Elder, S.H., Glisson, R.R., Seaber, A.V., Callaghan, J.J.: Screw Augmented Acetabular Component Fixation: Anatomic and Mechanical Considerations. *Transactions of the 37th Annual Meeting of the Orthopaedic Research Society*, 1991.

Kirkpatrick, J.S., Goldner, J.L., and Goldner, R.D.: Revision Arthrodesis for Tibiotalar Pseudoarthrosis. *Orthopaedic Transactions* 15(1):93, 1991.

Kirkpatrick, J.S., Seaber, A.V., Glisson, R.R., Bassett, F.H.: Biomechanical, Clinical, and Histologic Properties of Cryopreserved ACL Allografts 9 Months Post-Transplantation. *Orthopaedic Transactions* 15(3):810-811, 1991.

Kirkpatrick, J.S., Glisson, R.R., and Bassett, F.H.: Anterior Cruciate Ligament Reconstruction with Anatomic Cryopreserved Allografts: Two Year Results in a Canine Model. *Transactions of the 39th Annual Meeting of the Orthopaedic Research Society*, 1993.

Boden, S.D., Martin, C., Rudolph, R., **Kirkpatrick, J.S.**, Moeini, R., Hutton, W.C.: Effect of Lumbar Facet Capsule/Cartilage Excision: Does Added Instabiity Outweigh Increased Fusion Area? *Transactions of the 40th Annual Meeting of the Orthopaedic Research Society*, 1994.

Levy, J.A., **Kirkpatrick, J.S.**, Carillo, J., Moeini, S.R.: Reconstruction following Multilevel Corpectomy in the Cervical Spine: A Biomechnaical Study. *Transactions of the 44th Annual Meeting of the Orthopaedic Research Society*, 1998.

POSTERS:

Kirkpatrick, J.S., Koman, L.A.: The Role of Ultrasound in the Diagnosis of Myositis Ossificans - A Pilot Study. *31st Annual Meeting of the Orthopaedic Research Society*, 1985.

Boden, S.D., Martin, C., Rudolph, R., **Kirkpatrick, J.S.**, Moeini, R., Hutton, W.C.: Effect of Lumbar Facet Capsule/Cartilage Excision: Does Added Instabiity Outweigh Increased Fusion Area? *40th Annual Meeting of the Orthopaedic Research Society*, 1994.

Levy, J.A., **Kirkpatrick, J.S.**, Carillo, J., Moeini, S.R.: Reconstruction following Multilevel Corpectomy in the Cervical Spine: A Biomechnaical Study. *44th Annual Meeting of the Orthopaedic Research Society*, 1998.

Molz, F.J., Partin, J.I., Kirkpatrick, J.S.: Development of a Platform for Testing the Multisegmental Spine in Load and Displacement Control. 1st National Meeting of the Veterans Administration Rehabilitation Research and Development Service, 1998.

Levy, J.A., **Kirkpatrick, J.S.**, Carillo, J., Moeini, S.R.: Reconstruction following Multilevel Corpectomy in the Cervical Spine: A Biomechanical Study. 1st National Meeting of the Veterans Administration Rehabilitation Research and Development Service, 1998.

Molz, F.J., Partin, J.I., Kirkpatrick, J.S.: The Acute Effects of Posterior Fusion Instrumentation on Kinematics and Intradiscal Pressure of the Human Lumbar Spine. American Academy of Orthopaedic Surgeons, 68th Annual Meeting, Poster # 0293, 2001.

Molz, F.J., Partin, J.I., Kirkpatrick, J.S.: The Acute Effects of Posterior Fusion Instrumentation on Kinematics and Intradiscal Pressure of the Human Lumbar Spine. American Orthopaedic Association, 114th Annual Meeting, 2001.

Kirkpatrick, J.S., Sheils, T., Theiss, S.: Vertically Unstable Odontoid Fractures. Cervical Spine Research Society, twenty-ninth Annual Meeting, 2001.

Scholl, B.S., Waggoner, C., Theiss, S., Kirkpatrick, J.S.: Sagittal Plane Alignment of Thoracolumbar Fractures Treated with Short-Segment Instrumentation. American Academy of Orthopaedic Surgeons, 70th Annual Meeting, poster #298, 2003.

McAtee, S., Theiss, S., Kirkpatrick, J.S.: MRI predicts failure of nonoperative management for pyogenic vertebral osteomyelitis. International Society for the Study of the Lumbar Spine, 30th Annual Meeting, Poster 119, May 13-17, 2003.

SCIENTIFIC PRESENTATIONS:

Kirkpatrick, J.S., Clarke, I.C., Amstutz, H.C.: The UCLA Chariot, The Hip Society Summer Program, 1979.

Kirkpatrick, J.S., Callaghan, J.J., Vandemark, R.M., Goldner, R.D.: The Relationship of the Intrapelvic Vasculature to the Acetabulum: Implications in Screw Fixation Acetabular Components. Eastern Orthopaedic Association, 1989 annual meeting.

Kirkpatrick, J.S., Glisson, R.R., LeCara, G., Seaber, A.V., and Bassett, F.H., III.: Biomechanical, Histological, and Microvascular Properties of Cryopreserved ACL Allografts 3 and 6 Months Post-Transplantation. 36th Annual Meeting of the Orthopaedic Research Society, 1990.

Kirkpatrick, J.S., Goldner, J.L., and Goldner, R.D.: Revision Arthrodesis for Tibiotalar Pseudarthrosis. Symposium on Hindfoot Reconstruction, American Orthopaedic Foot and Ankle Society, 1990 Winter meeting.

Kirkpatrick, J.S., Callaghan, J.J., Vandemark, R.M., Stranne, S.K., Goldner, R.D.: The Relationship of the Intrapelvic Vasculature to the Acetabulum: Implications in Screw Fixation Acetabular Components. (presented by Callaghan), Southern Orthopaedic Association, 1990 annual meeting.

Kirkpatrick, J.S., Seaber, A.V., Glisson, R.R., Bassett, F.H.: Biomechanical Properties of Cryopreserved Anterior Cruciate Ligament Allografts. First World Congress on Biomechanics, La Jolla, California, 1990.

Kirkpatrick, J.S., Malone, T.R., Bassett, F.H.: Cryotherapy Induced Nerve Injury. American Orthopaedic Society for Sports Medicine Specialty Day Meeting, 1991.

Kirkpatrick, J.S., Seaber, A.V., Glisson, R.R., Bassett, F.H.: Cryopreserved Anterior Cruciate Ligament Allografts: Biomechanical, Clinical, and Histologic Findings in a Canine Model. American Academy of Orthopaedic Surgeons 1991 Annual Meeting.

Kirkpatrick, J.S., Seaber, A.V., Glisson, R.R., Bassett, F.H.: Biomechanical, Clinical, and Histologic Properties of Cryopreserved ACL Allografts 9 Months Post-Transplantation. 37th Annual Meeting of the Orthopaedic Research Society, 1991.

Kirkpatrick, J.S., Moloney, E.L., and Richardson, W.J.: Lumbar Spine Fusion with Internal Fixation: A Comparison of Translaminar Facet Screws with Transpedicular Screws and Plates. Sixth Annual Meeting of the North American Spine Society, 1991.

Kirkpatrick, J.S., Glisson, R.R., and Bassett, F.H.: Anterior Cruciate Ligament Reconstruction with Anatomic Cryopreserved Allografts: Two Year Results in a Canine Model. 39th Annual Meeting of the Orthopaedic Research Society, 1993.

Kirkpatrick, J.S., Bolesta, M.J., Biro, C., Bohlman, H.H.: Axonal Regeneration after Decompression of the Conus Medullaris: A Canine Model. (presented by videotape) Eighth Annual Meeting of the North American Spine Society, 1993.

Boden, S.D., Martin, C., Rudolph, R., **Kirkpatrick, J.S.**, Moeini, R., Hutton, W.C.: Effect of Lumbar Facet Capsule/Cartilage Excision: Does Added Instability Outweigh Increased Fusion Area? Annual Meeting of the International Society for the Study of the Lumbar Spine, 1994.

Fuller, D.A., **Kirkpatrick, J.S.**, Emery, S.E., Wilber, R.G., Davy, D.: Kinematics of the Cervical Spine Following Fusion. 11th Annual Meeting of Southern Orthopaedic Association, 1994.

Boden, S.D., Martin, C., Rudolph, R., **Kirkpatrick, J.S.**, Moeini, R., Hutton, W.C.: Effect of Lumbar Facet Capsule/Cartilage Excision: Does Added Instability Outweigh Increased Fusion Area? 9th Annual Meeting of the North American Spine Society, 1994.

Fuller, D.A., **Kirkpatrick, J.S.**, Emery, S.E., Wilber, R.G., Davy, D.: Kinematics of the Cervical Spine Following Fusion. 9th Annual Meeting of the North American Spine Society, 1994.

Kirkpatrick, J.S., Glisson, R.R., Seaber, A.V., Bassett, F.H., Devlin, B., Kaufman, R.E.: Determination of Cell Origin Following Anterior Cruciate Ligament Allograft Reconstruction. 43rd Annual Meeting of the Piedmont Orthopaedic Society, 1995.

Kirkpatrick, J.S., Levy, J.A., Carillo, J., Moeini, S.R.: Biomechanics of Reconstruction following Multilevel Cervical Corpectomy. 45th Annual Meeting of the Piedmont Orthopaedic Society, 1997.

Kirkpatrick, J.S., Tolan, D.: Some Challenges of Orthopaedic Practice in Rural Kenya. 45th Annual Meeting of the Piedmont Orthopaedic Society, 1997.

Kirkpatrick, J.S., Levy, J.A., Carillo, J., Moeini, S.R.: Biomechanics of Reconstruction following Multilevel Cervical Corpectomy. 15th Annual Meeting of the Southern Orthopaedic Association, 1998.

Levy, J.A., **Kirkpatrick, J.S.**, Carillo, J. and Moeini, S.R.: Reconstruction following Multilevel Corpectomy in the Cervical Spine: A Saggital Plane Biomechanical Study. Seventeenth Annual Meeting of the Mid-America Orthopaedic Association, April 17, 1999.

Levy, J.A., **Kirkpatrick, J.S.**, Carillo, J. and Moeini, S.R.: Reconstruction following Multilevel Corpectomy in the Cervical Spine: A Saggital Plane Biomechanical Study. Twenty-fifth annual meeting of the American Spinal Injury Association, April 19, 1999

Molz, F.J., **Kirkpatrick, J.S.**, Partin, J.I.: Acute Effects of Pedicle Screw Instrumentation on the intervertebral motion of the Lumbar Spine. 17th Annual meeting of the Southern Orthopaedic Association, July 22, 2000.

Kirkpatrick, J.S., Venugolopalan, R., Bibbs, M., Lemons, J.E., Beck, P.: Corrosion on Spinal Implants. 49th Annual Meeting of the Piedmont Orthopaedic Association, May 10, 2001.

Kirkpatrick, J.S., Venugolopalan, R., Bibbs, M., Lemons, J.E., Beck, P.: Corrosion on Spinal Implants. International Society for the Study of the Lumbar Spine, 28th Annual Meeting, June 2001.

Kirkpatrick, J.S., Venugolopalan, R., Bibbs, M., Lemons, J.E., Beck, P.: Corrosion on Spinal Implants. 18th Annual Meeting of the Southern Orthopaedic Association, July 21, 2001.

Kirkpatrick, J.S., Venugolopalan, R., Bibbs, M., Lemons, J.E., Beck, P.: Corrosion on Spinal Implants. ASTM Symposium on Spinal Implants. November 6, 2001.

Kirkpatrick, J.S., Sheils, T., Theiss, S.: Type III Odontoid Fractures with Distraction: An Unstable Injury. Piedmont Orthopaedic Society, 50th Annual Meeting (Phase I), May 17, 2002.

Claytor, B, MacLennan, P.A., McGwin, G, Rue, L.W., **Kirkpatrick, J.S.:** Cervical Spine Injury and Restraint System Use in Motor Vehicle Collisions. Piedmont Orthopaedic Society, 50th Annual Meeting (Phase II), May 10, 2003.

Molz, F., Partin, J., Kirkpatrick, J.: The Acute Effect of L3/L4 Fusion on the Motion of Vertebrae in a Whole Lumbar Cadaver Spine. (presented by Molz) International Society for the Study of the Lumbar Spine, 30th Annual Meeting, May 17, 2003.

Invited Workshops and Lectures

National Association of Orthopaedic Nurses, Magic City Chapter CME Course - The Incredible Shrinking Woman, 3/10/95, "Orthopaedic Considerations in Osteoporosis"

University of Alabama, Birmingham CME Course - Orthopaedics for Primary Care Physicians, 4/22/95, "Back Pain: Care and Management" Case presentation instructor.

University of Alabama, Birmingham CME Course - Primary Care Medicine Today, 5/27/95. "Oh, My Aching Back: Evaluation and Surgical Indications in Low Back Pain".

University of Alabama, Birmingham CME Course - Primary Care Medicine Today, 5/27/95. "Oh, What a Pain in the Neck: Evaluation and Surgical Indications in Neck Pain".

Southern Orthopaedic Association CME course-Hot Topics in Cold Weather II, March 31, 1999. "Spine Injuries in Athletes"

Piedmont Orthopaedic Society 47th Annual Meeting, 5/14/99. Panel Discussion member "Controversies in Spine Surgery"

ASTM Committee F04 Workshop on the Past, Present, and Future. May 23, 2000. "The User Perspective"

ASTM Committee F04 Workshop on Bone Graft Substitutes. November 14, 2000.
Moderator, “Allograft Based Systems for Use as Bone Graft Substitutes.”

ASTM Symposium on Spinal Implants. November 6-7, 2001. Symposium co chair and
Moderator “Spinal device components, subassemblies, and interconnections; Cages and
interbody fusion devices; functional spinal devices and artificial discs.”

AUDIOVISUAL PROGRAMS:

Kirkpatrick, J.S., Malone, T.R., Bassett, F.H.: Cryotherapy Induced Nerve Injury.
Orthopaedic Audio-Synopsis Foundation, Cassette tape, Volume 23, April, 1991.

WORK IN PROGRESS:

Proprietary information deleted.