

EDWARD DONALD SIMMONS

B.Sc., M.D., C.M., M.Sc., F.A.C.S., F.R.C.S. (C)

CURRICULUM VITAE

EDWARD DONALD SIMMONS

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EDUCATION:

- High School: Upper Canada College (Toronto)
1970-1974
1st in class: Grade XIII
- University: University of Toronto
1974-1977
- Medicine: McGill University, Montreal
1977-1981
- Residency: University of Toronto,
Orthopaedic Surgery Training Program
1982-1987
- Fellowships: Orthopaedic and Arthritic Hospital,
University of Toronto,
July 1987 - July 1988
- Boston Children's Hospital,
Harvard Medical School,
July 1988 - January 1989
- Brigham and Women's Hospital,
Harvard Medical School,
January 1989 - July 1989

INTERNSHIP

July, 1981 - Rotating Internship, Toronto East
June, 1982 - General and Orthopaedic Hospital

RESIDENCY

UNIVERSITY OF TORONTO ORTHOPAEDIC SURGERY TRAINING PROGRAM

July, 1982 - January, 1983	Junior Resident, Orthopaedic Surgery, Sunnybrook Medical Centre, Toronto
January, 1983 - July, 1984	Orthopaedic Research Fellow, Connective Tissue Research Group Mount Sinai Hospital, Toronto Postgraduate research toward Master of Science degree, Department of Pathology, University of Toronto. M.Sc. Thesis: "Studies in Age-Related Changes in Human Cortical Bone", submitted Spring of 1986 (work supported by the Arthritis Society of Canada and National Institutes of Health, NIH Grant AGO4224)
July, 1984 - October, 1984	Resident, General Surgery, Toronto East General and Orthopaedic Hospital
October, 1984 - January, 1985	Resident, Plastic Surgery, Toronto East General and Orthopaedic Hospital
January, 1985 - April, 1985	Resident, Intensive Care Unit, Toronto Western Hospital
April, 1985 - July, 1985	Resident, Neurosurgery, Toronto Western Hospital
July, 1985 - January, 1986	Senior Resident, Orthopaedic Surgery St. Michael's Hospital, Toronto
January, 1986 - July, 1986	Senior Resident, Orthopaedic Surgery, Toronto General Hospital
July, 1986 - January, 1987	Senior Resident, Orthopaedic Surgery, Hospital for Sick Children, Toronto
January, 1987 - July, 1987	Senior Resident, Orthopaedic Surgery, Sunnybrook Medical Centre, Toronto

FELLOWSHIPS

July 1987 - June 1988

Postgraduate Fellowship: Orthopaedic and Arthritic Hospital, University of Toronto, Women's College Hospital, Toronto, and Canadian Back Institute, Toronto. (Dr. Hamilton Hall). Major area of Concentration: Adult Spinal Disorders and Joint Reconstruction.

July 1988 - January 1989

Postgraduate Fellowship: Children's Hospital of Boston, Harvard Medical School Boston. (Dr. John E. Hall). Major Area of Concentration: Spinal Deformities.

January 1989 - June 1989

Postgraduate Fellowship: Brigham and Women's Hospital, Harvard Medical School, Boston. (Dr. Clement B. Sledge) Major Area of Concentration: Joint Reconstruction.

DEGREES AND QUALIFICATIONS

- 1973 Secondary School Graduation Diploma (Upper Canada College)
2nd in Class
- 1974 Secondary School Honors Graduation Diploma (Upper Canada
College)
1st in Class
- 1977 B.Sc., University of Toronto
Victoria College
- 1981 M.D., C.M., McGill University, Montreal
- 1981 Licentiate of the Medical Council of Canada
- 1982 Diplomate of the National Board of Medical
Examiners of the United States of America
- 1986 Master of Science, Department of Pathology,
University of Toronto
- Oral Defense of Thesis, July 17, 1986,
Medical Sciences Building, University of Toronto
- 1987 Advanced Trauma Life Support Course,
American College of Surgeons
- 1987 Fellow of the Royal College of Physicians and Surgeons of Canada
(Orthopaedic Surgery), November 19, 1987
- 1988 Physician License, Commonwealth of Massachusetts,
Board of Registration in Medicine
- 1988 American Board of Orthopaedic Surgery, Part I Examination,
Passed July 29, 1988
- 1989 Physician License, New York State
- 1991 Diplomate of the American Board of Orthopaedic Surgery
(Part II Examination - Passed July 12, 1991)
- 2002 Diplomate of the American Board of Orthopaedic Surgery
(Recertification Examination - Passed October 15, 1999)

AWARDS AND GRANTS

- 1983-1984 Research Fellow, Connective Tissue Research Group, Mount Sinai Hospital, Toronto. Work supported by NIH Grant AGO4224, and Arthritis Society of Canada.
- 1986 "R.N. STARR MEDAL" University of Toronto, (Awarded for Research Pertaining to Physiology, Anatomy, or Pathology) Faculty of Post-Graduate Medicine, University of Toronto).
- 1988 United Cerebral Palsy Research and Education Foundation Clinical Fellowship, Grant in Orthopaedic Surgery.
- 1990 Junior Board of Buffalo General Hospital Grant for Development of Computerized Orthopaedic Registry.
- 1995 "Forty Under 40", *Business First* Civic Award, Buffalo, New York
- 2000 Awarded United States Patent; Number: 6,102,930 for Invention of Volumetric Measurement Device and Method in Lateral Recess and Foraminal Spinal Stenosis

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PROFESSIONAL SOCIETIES AND ASSOCIATIONS

SPINE:

Active Fellow, Scoliosis Research Society
Member, North American Spine Society
Member, Cervical Spine Research Society
Fellow, International Society for the Study of the Lumbar Spine
Active Member, American College of Spine Surgery

OTHERS:

Member, American Orthopaedic Association
Fellow, American Academy of Orthopaedic Surgeons
Member, Canadian Medical Association
Member, Canadian Orthopaedic Association
Fellow, Royal College of Physicians and Surgeons of Canada
Member, Rocky Mountain Traumatologic Society
Member, American Medical Association
Member, Western New York Orthopaedic Association
Member, Ontario Medical Association
Member, Erie County Medical Society
Member, Medical Society of the State of New York
Member, Orthopaedic Letters Club
Fellow, American College of Surgeons
Member, Dewar Orthopaedic Society
President, Dewar Orthopaedic Society, 1997-1998
Member, Simmons Surgical Society
Member, New York State Society of Surgeons
Member, New York State Society of Orthopaedic Surgeons
Member, Lamplighter's Orthopaedic Association
Member, Association of Bone and Joint Surgeons
Member, Gross Medical Society - 2008

CURRENT POSITION

Clinical Professor, Department of Orthopaedic Surgery, State University of New York at Buffalo

Attending Orthopaedic Surgeon, Department of Orthopaedic Surgery, Buffalo General Hospital, Buffalo, New York

Attending Orthopaedic Surgeon, Women and Children's Hospital of Buffalo, Buffalo, New York

Consultant Orthopaedic Surgeon, Scoliosis Clinic, West Seneca Developmental Center West Seneca, New York

Attending Orthopaedic Surgeon, Roswell Park Cancer Institute, Buffalo, New York

Attending Orthopaedic Surgeon, Sisters of Charity Hospital, Buffalo, New York

CURRENT UNIVERSITY AND HOSPITAL ADMINISTRATIVE ACTIVITIES

1. Coordinated undergraduate teaching in Orthopaedic Surgery at The Buffalo General Hospital, 1987 - 1992
2. Review statistics for and produce monthly Quality Assurance report for the Department of Orthopaedic Surgery of the Buffalo General Hospital, 1989 - 1993
3. Instituting and supervising a computerized Orthopaedic Registry for Buffalo General Hospital, 1989 - 1995
4. Member of the Resident Education Committee for the State University of New York at Buffalo Orthopaedic Residency Program, 1989 – 1991
5. Member of the Research Committee for the SUNY at Buffalo Orthopaedic Residency Program, 1989 - 1991
6. Transfusion Committee, Buffalo General Hospital, 1990 - 1995
7. Quality Assurance Committee, Buffalo General Hospital, 1990 - 1996
8. Infection Control Committee, Buffalo General Hospital, 1989 - 1994

9. Ad-Hoc Committee, Buffalo General Hospital, 1990 - 1991
10. Member of the Board of Directors of the Upstate New York Transplant Services, Inc. (UNYTS). 1993 - 1999
11. Continuous Quality Improvement Study Committee, In-patient Care, Buffalo General Hospital, January 1994 - 1996
12. Treasurer, Medical Staff, Buffalo General Hospital, January 1994 - January 1996
13. Executive Committee, Buffalo General Hospital, January 1994 - January 1996
14. Credentials Committee, Buffalo General Hospital, February 1997 - 2000
15. Member, Radiology Search Committee, KALEIDA Health, April 2002

MEDICAL SOCIETY COMMITTEES

1. Chairman, Committee on Diagnostics and Therapeutics, North American Spine Society. (1994-1995)
2. Medical Education Committee, Medical Society of the County of Erie. (1992)
3. Workers' Compensation Committee, Medical Society of the County of Erie. (1993)
4. Surgical Care Committee, North American Spine Society. (1995-1996)
5. Member, Adult Spine Surgery and Trauma Committee - American Academy of Orthopaedic Surgeons (1998-2000)
6. Member, Exhibits Committee - American Academy of Orthopaedic Surgeons (2000-2002)
7. Member, Spine Program Sub-Committee - American Academy of Orthopaedic Surgeons (2000-2002)
8. Membership Review Committee - North American Spine Society (1997)
9. Member, Aging Spine Committee – Scoliosis Research Society (2000-2004)
10. Member, Board of Directors – Orthopaedic Research and Education Foundation of Buffalo
11. Member, Spinal Concepts Advisory Board on Cervical Spine Fixation (2002-2004)
12. Member, Morbidity & Mortality Committee – Scoliosis Research Society (2004 – present)
13. Member, Quality Assurance Committee – Kaleida Health (February 2011 – present)

JOURNAL EDITORIAL RESPONSIBILITIES

Consultant reviewer, The Journal of Bone and Joint Surgery (Am.), 1990 - present

Editorial Board, Journal of Orthopaedic Techniques, 1993 - 1999

Editorial Board, SPINE, 1992 – present

Editorial Board, Journal of Spinal Disorders, 1998-2001

Editorial Board, Journal of Spinal Disorders & Techniques, 2002 – present

Editorial Board, The Spine Journal, 2001 – 2010

Consultant reviewer, Clinical Orthopaedics and Related Research, 2003 - present

PUBLISHED ARTICLES

1. "Bone Mineral in the Castrated Rat Model of Osteopenia", Gryn timer, M.D., Simmons, E.D., Carnes, D.G., Gundberg, C., Pritzker, K.P.H., Harrison, J.E.: JOURNAL OF ORTHOPAEDIC RESEARCH, 5 (4): 586-591, 1987.
2. "The Distribution of Fluoride in Bones of Rats on a High Fluoride Regimen", Gryn timer, M.D., Simmons, E.D., Pritzker, K.P.H., Harrison, J.E.: University of Toronto, SLOWPOKE REACTOR FACILITY ANNUAL REPORT, 1986.
3. "The Treatment for Congenital Absence of the Tibia", in THE MEDICAL POST, Vol. 25, No. 38, October 31, 1989.
4. "Interobserver Variability in Grading Legg-Perthes' Disease", Simmons, E.D., Graham, H.K., Szalai, J.P.: JOURNAL OF BONE & JOINT SURGERY, 72-B: 202-204, March 1990.
5. "Instability of the Cervical Spine and Neurological Involvement in Klippel-Feil Syndrome", Hall, J.E., Simmons, E.D., Danylchuk, K., Barnes, P.D.: JOURNAL OF BONE & JOINT SURGERY, 72-A: 460-462, March 1990.

6. Correspondence regarding "Treatment of Castration-Induced Osteoporosis by a Capacitively Coupled Electric Signal in Rat Vertebrae", (71-A:228-236, Feb. 1989), Simmons, E.D., Grynepas, M.D.: JOURNAL OF BONE AND JOINT SURGERY, 72-A, 307, Feb. 1990.
7. "Age-Related Changes in the Human Femoral Cortex", Simmons, E.D., Pritzker, K.P.H., Grynepas, M.D.: JOURNAL OF ORTHOPAEDIC RESEARCH, 9(2): 155-168, March 1991.
8. "The Accuracy of Tibial Intramedullary Alignment Devices in Total Knee Arthroplasty", Simmons, E.D., Sullivan, J.A., Rackemann, S., and Scott, R.D.: THE JOURNAL OF ARTHROPLASTY, Vol. 6(1): 45-50, March 1991.
9. "Malaligned Valgus Knees With Alignment Device", Simmons, E.D., Sullivan, J.A., Rackemann, S., and Scott, R.D.: ORTHOPAEDIC AND SPORTS MEDICINE NEWS, October 1991.
10. "Patella Alta and Recurrent Dislocation of the Patella", Simmons, E.D., and Cameron, J.C.: CLINICAL ORTHOPAEDICS AND RELATED RESEARCH, 274:265-269, 1992.
11. "Spinal Stenosis with Scoliosis", Simmons, E.D., Simmons, E.H.: SPINE, 17(6S): 117-120, 1992.
12. "Capitellocondylar Total Elbow Replacement in Rheumatoid Arthritis", Ewald, F.C., Simmons, E.D., Sullivan, J.A., Thomas, W.H., Scott, R.D., Poss, R., Thornhill, T. S., Sledge, C. B.: JOURNAL OF BONE AND JOINT SURGERY, 75A:498-507, April 1993.
13. "The Results of Surgical Treatment for Adult Scoliosis", Simmons, E.D., Kowalski, J.M., Simmons, E.H.: SPINE 18(6):718-724, May 1993.
14. "Discussion on Lumbar Stenosis with Osteoporotic Compression Fracture and Neurogenic Claudication" - Clinical Opinion, JOURNAL OF SPINAL DISORDERS, Vol. 6, No. 3, page 273, 1993.
15. "Indications and Technique for Direct Repair of Lumbar Spondylolytic Defects", Markowitz, H.D., Simmons, E.D., JOURNAL OF ORTHOPAEDIC TECHNIQUES, Vol. 2, No. 2:87-90, June 1994.
16. "Uniplanar Supracondylar Humeral Osteotomy with Preset Kirschner Wires for Posttraumatic Cubitus Varus", Voss, F.R., Kasser, J.R., Trepman, E., Simmons, E.D., Hall, J.E., JOURNAL OF PEDIATRIC ORTHOPAEDICS, 14:471-478, 1994.
17. "Primary Osseous Tumor of L2 With Pathologic Fracture" - Clinical Opinion, JOURNAL OF SPINAL DISORDERS, Vol. 8 No. 4, page 173-174, 1995

18. "Contemporary Concepts in Spine Care - Magnetic Resonance Imaging: Use in Patients With Low Back or Radicular Pain", Herzog, R.J., Guyer, R.D., Graham-Smith, A., Simmons, E.D., SPINE, Vol 20, No 16, pp 1834-1838, August 1995.
19. "Contemporary Concepts in Spine Care - Radiographic Assessment for Patients with Low Back Pain", Simmons, E.D., Guyer, R. D., Graham-Smith, A., Herzog, R., SPINE, Vol 20, No 16, pp 1839-1841, August 1995.
20. "Results of Intervertebral Discectomy Without Fusion at L4-5 Versus L5-S1", Kowalski, J.M., Olsewski, J.M., Simmons, E.D., JOURNAL OF SPINAL DISORDERS, Vol. 8, No. 6, pp 457-463, 1995.
21. "Brown's Procedure for Congenital Absence of the Tibia Revisited", Simmons, E.D., Ginsburg, G.M., Hall, J.E., J PEDIATR ORTHOP, Vol. 16, No. 1, pp. 85-89, 1996.
22. "Biomechanical Comparison of the Dewar and Interspinous Cervical Spine Fixation Techniques", Simmons, E.D., Burke, T.G., Haley, T., Medige, J., SPINE, Vol 21. No. 3, pp 295-298, February 1, 1996.
23. "Familial Predisposition for Degenerative Disc Disease: A Case-Control Study", Simmons, E.D., Guntupalli, M., Kowalski, J.M., Braun, F., and Seidel, T., SPINE, Vol 21, No. 13, pp.1527-1529, 1996.
24. "Surgical Management of Complicated Spinal Stenosis Associated with Degenerative Scoliosis", Simmons, E.D., OPERATIVE TECHNIQUES IN ORTHOPAEDICS, Vol 7, No. 1, pp. 48-55, January 1997.
25. "Reliability of Roentgenogram Evaluation of Pedicle Screw Fixation", Ferrick, Michael R., Kowalski, Joseph M., Simmons, E.D., SPINE, Vol 22, No 11, pp 1249-1253, 1997.
26. "Interobserver Variability in Grading Lumbar Fusion", Hamill, Christopher L., Simmons, E.D. JOURNAL OF SPINAL DISORDERS, Vol.10, No.5, pp 387-390, 1997.
27. "Interpreting the Bowstring Sign", Simmons, E.D., JOURNAL OF MUSCULOSKELETAL MEDICINE, Vol.15, No.3, p 51, 1998
28. "Use of Allograft Bone In Spinal Reconstructive Surgery", Simmons, E.D., BUSINESS FIRST, Health Issues, July 1998.
29. "Surgical Treatment of Patients With Spinal Stenosis With Associated Scoliosis", Simmons, ED, CLINICAL ORTHOPAEDICS AND RELATED RESEARCH, No. 384, pp 45-53, March 2001.

30. Commentary on "A Biomechanical Comparison of Posterolateral and Posterior Fusion In The Lumbar Spine", Chen, CS, Chen, CK, Liu, CL, J SPINAL DISORDERS & TECHNIQUES, Vol. 15, No. 1, pp 53-63.
31. "Active Range of Motion Utilized in the Cervical Spine to Perform Daily Functional Tasks", Bennett, SE, Schenk, RJ, Simmons, ED. J SPINAL DISORDERS & TECHNIQUES, Vol. 15, No. 4 pp 307-311.
32. "Surgical Treatment of Patients With Spinal Stenosis With Associated Scoliosis", Simmons, ED, YEARBOOK OF ORTHOPAEDICS 2002, Chapter 12, No.7, pp 283.
33. "Evaluation of Metabolic Bone Disease as a Risk Factor for Lumbar Fusion" E.D. Simmons, J. Kuhele, J. Lee, L. Lee, M. Grynepas. THE SPINE JOURNAL, Vol. 2, No. 5S, pp 99S, September/October 2002
34. "Contemporary Concepts Reviews - Radiographic Assessment for Patients with Low Back Pain", Simmons, E.D., Guyer, R. D., Graham-Smith, A., Herzog, R., THE SPINE JOURNAL, Vol. 3, No. 3S, pp 3S-5S, May/June 2003
35. "Magnetic Resonance Imaging: Use in Patients With Low Back or Radicular Pain", Herzog, R.J., Guyer, R.D., Graham-Smith, A., Simmons, E.D., THE SPINE JOURNAL, Vol. 3, No. 3S, pp 6S-10S, May/June 2003
36. "Implications of Osteoporosis During Spinal Surgery", Simmons, E.D., Zheng, Y., ADVANCES IN OSTEOPOROTIC FRACTURE MANAGEMENT, Vol. 3, No. 1, pp 13-22, March 2004
37. "Value of Magnetic Resonance Imaging and Discography in Determining the Level of Cervical Discectomy and Fusion", Liew, SM, Zheng, Y, Simmons, E.D., SPINE, Vol. 29, No. 19, pp 2140-2145, November 2004
38. "Thirty-Six Years Experience of Cervical Extension Osteotomy in Ankylosing Spondylitis" Simmons, E.D., DiStefano, Richard J., Zheng, Yinggang, MD, Simmons, E.H., SPINE, Vol. 31, No.26, pp 3006-3012, 2006
39. "Vertebral Tumors" Surgical versus Nonsurgical Treatment, Simmons, E.D., Zheng, Y., CLINICAL ORTHOPAEDICS AND RELATED RESEARCH, No. 443, pp 233-247, 2006

TEXTBOOK CONTRIBUTIONS

1. "Is Fluoridated Bone Different from Non-Fluoridated Bone?" Grynbas, M.D., Simmons, E.D., Pritzker, K.P.H., Hancock, R.V., Harrison, J.E.: CELL MEDIATED CALCIFICATION AND MATRIX VESICLES, Ed. S. Yousof Ali, Elsevier Science Publishers, 1986.
2. "Studies on Age-Related Changes in Human Cortical Bone", Simmons, E.D.: MASTER OF SCIENCE THESIS, University of Toronto Library, October 1986.
3. "Ankylosing Spondylitis", Simmons, E.D., Simmons, E.H.: SPINE: STATE OF THE ART REVIEWS, Vol. 8, No., 3, September 1994, Philadelphia, Hanley & Belfus, Inc.
4. "TSRH - Pedicle Screw Spinal System, Severe Spondylolisthesis of L5-S1 Grade 3 & 4", Surgical Technique Brochure, Simmons, E.H., Simmons, E.D., Markowitz, H.D.: Sofamor Danek USA, 1995.
5. "Clinical Cervical Deformity and Postlaminectomy Kyphosis", Simmons, E.D., Capicotto, P.N.: SPINE CARE - OPERATIVE TREATMENT, Vol 2, Chapter 111, 1995, Mosby-Year Book, Inc., St. Louis, Missouri.
6. "Anterior Reconstruction for Metastatic Thoracic and Lumbar Spine Disease", Simmons, E.D.: THE TEXTBOOK FOR SPINAL SURGERY, Second Edition, Vol 2, Chapter 109, ed. K.H. Bridwell, R.L. DeWald, Lippincott-Raven, pp. 2057-2070, 1997.
7. "Cervical Deformity - Rationale for Selecting the Appropriate Fusion Technique" Liew, S.M., Simmons, E.D.: ORTHOPAEDIC CLINICS OF NORTH AMERICA, Vol.29, No.4, pp.779-786 W.B. Saunders, 1998.
8. "Thoracic and Lumbar Deformity - Rationale for Selecting the Appropriate Fusion Technique (Anterior, Posterior and 360 Degree), Liew, S.M., Simmons, E.D.: ORTHOPAEDIC CLINICS OF NORTH AMERICA, Vol.29, No.4, pp.843-857, W.B. Saunders, 1998.
9. "Spondyloarthropathies", Simmons, E.D., Contribution to the North American Spine Society Core Curriculum, January 1999.
10. "Osteotomy for Ankylosing Spondylitis", Simmons E.D., SURGICAL TECHNIQUES FOR THE SPINE, ed. T.R. Hafer, A.A. Merola; Thieme Publishers. Chapter 49, pp 227-232, July 2003.
11. "Ankylosing Spondylitis", Simmons, E.D., Zheng Y., SPINE SECRETS, ed. V.J. Devlin, Hanley and Belfus Publishers, Chapter 63, pp 447-453, July 2003.
12. "Metabolic Bone Diseases of the Spine", Simmons, E.D., Zheng Y., SPINE SECRETS, ed. V.J. Devlin, Hanley and Belfus Publishers, Chapter 58, pp 413-419, July 2003.

13. "The Cervical Spine in Ankylosing Spondylitis", Simmons, E.D., Zheng, Y, INFLAMMATORY DISEASES OF THE SPINE, ed. Govender, S., Leong, JCY. TTG Asia Media PTE Ltd., Chapter 18, 2003.
14. "Primary Spine Tumors", Simmons, E.D., Zheng, Y., THE LUMBAR SPINE, 3rd Edition, ed. Herkowitz HN, Dvorak J, Bell G, Lippincott, Williams & Wilkins Publishers, Chapter 81, pp 775-791, August 2004.
15. "Ankylosing Spondylitis: Operative Treatment" Simmons, E.H., Simmons, E.D., Zheng, Y., THE LUMBAR SPINE, 3rd Edition, ed. Herkowitz HN, Dvorak J, Bell G, Lippincott. Williams & Wilkins Publishers, Chapter 77, pp 727-738, August 2004.
16. "Ankylosing Spondylitis", Simmons, E.D., Zheng, Y., ORTHOPAEDIC SURGERY ESSENTIALS: SPINE, ed. Bono CM, Garfin SR, Lippincott Williams & Wilkins Publishers, Chapter 23, pp 196-205, September 2004.
17. "The BacFix Thoracolumbar System", Simmons, E.D., Zheng, Y., SPINAL INSTRUMENTATION: SURGICAL TECHNIQUES ed. Kim DH, Vaccaro AR, Fessler RG, Thieme Publishers, Chapter 93, pp 678-684, May 2005.
18. "Vertebral Tumors: Surgical versus Non-surgical Management" Simmons, ED, Zheng, Y. SYMPOSIUM OF SURGICAL VERSUS NON-SURGICAL TREATMENT IN DISORDERS OF THE SPINE, Clinical Orthopaedics and Related Research, Number 443, pp 223-247, February 2006.
19. "Cervical Spine Osteotomy in Ankylosing Spondylitis" Simmons, E.D., Zheng, Y., THE CERVICAL SPINE 5th Edition submitted to Lippincott, Williams & Wilkins Publishers, March 2010.
20. "Spinal Deformities in Ankylosing Spondylitis: Surgical Management", Simmons, E.D. ARTHRITIS AND ARTHROPLASTY: THE SPINE, ed. Shen, F., Shaffrey, C., Elsevier Science Publishers, Chapter 30, pp 231-239; 2010.
21. "Cervical Osteotomy" Simmons, E.D., ADVANCED RECONSTRUCTION: SPINE ed. Wang, J., American Academy of Orthopaedic Surgeons, Chapter 22, pp 203-211, 2011.
22. "Diagnostic Imaging of Painful Cervical Discs" Zheng, Y, Liu, K, Simmons, E.D. ISPINE, ed. DePalma, M., Chapter 30, pp 298-301, 2011.
23. "Metabolic Bone Diseases of the Spine" Simmons, E.D., Zheng, Y., SPINE SECRETS 2nd Edition ed. Merritt, J., Cicalese, B., Elsevier Science Publishers, Chapter 65 pp 450-455, 2012.
24. "Ankylosing Spondylitis" Simmons, E.D., Zheng, Y., SPINE SECRETS 2nd Edition, ed. Merritt, J., Cicalese, B., Elsevier Science Publishers, Chapter 69, pp 480-488, 2012.

PUBLISHED ABSTRACTS

1. "The Relationship Between Proteoglycan and Bone Mineral in Newborn and Adult Rabbits", Grynepas, M.D., Hunter, G.K., Simmons, E.D.: *CALCIF. TISSUE INT.*, 36, No. 4, p. 486, July 1984.
2. "Fluoride-Induced Changes in Bone Mineral", Simmons, E.D., Grynepas, M.D., Pritzker, K.P.H., Harrison, J.E.: *ORTHOPAEDIC TRANSACTIONS*, Vol. 9, No. 1, Spring 1985, *JOURNAL OF BONE AND JOINT SURGERY*.
3. "Bone Mineral Changes in Aging Human Cortical Bone", Simmons, E.D., Grynepas, M.D., Pritzker, K.P.H.: *ORTHOPAEDIC TRANSACTIONS*, Vol. 9, No. 2, p. 222, 1985, *JOURNAL OF BONE AND JOINT SURGERY*.
4. "Aging Changes in Human Cortical Bone", Simmons, E.D., Grynepas, M.D., Pritzker, K.P.H.: *ORTHOPAEDIC TRANSACTIONS*, Vol., 9, No. 3, p. 568, 1985, *JOURNAL OF BONE AND JOINT SURGERY*.
5. "An Assessment of Inter-Observer Variability in Grading Legg-Perthes' Disease", Simmons, E.D., Salter, R.B., Graham, H.K.: *JOURNAL OF BONE AND JOINT SURGERY (Br.)*, 71-B, No. 2, p. 349, March 1987.
6. "Brown's Procedure for Congenital Absence of the Tibia Revisited", Simmons, E.D., Hall, J.E.: *JOURNAL OF BONE AND JOINT SURGERY*, 72B, 538, 1990.
7. "Long-Term Review of the Capitello-Condylar Total Elbow Replacement", Simmons, E.D., Sullivan, J.A., and Ewald, F.C.: *JOURNAL OF BONE AND JOINT SURGERY*, *ORTHOPAEDIC TRANSACTIONS*, Vol. 14(2), 1990.
8. "Brown's Procedure for Congenital Absence of the Tibia Revisited", Simmons, E.D., Hall, J.E.: *JOURNAL OF BONE AND JOINT SURGERY*, *ORTHOPAEDIC TRANSACTIONS*, Vol. 14(2), 1990.
9. "Migration Occurs With Cementless, Cemented, and Bipolar Cups in Primary Protrusio Total Hip Arthroplasty", Simmons, E.D., Sullivan, J.A., Reilly, D.T., Poss, R.: *JOURNAL OF BONE AND JOINT SURGERY*, *ORTHOPAEDIC TRANSACTIONS*, Vol. 14(2), 1990.
10. "The Long-Term Results of Unconstrained Total Elbow Replacement", Simmons, E.D., Sullivan, J.A., Ewald, F.C.: *JOURNAL OF BONE AND JOINT SURGERY*, *ORTHOPAEDIC TRANSACTIONS*, 73B, Supp. 1, 1991.

11. "Migration of Cementless, Cemented, and Bipolar Cups in Primary Protrusio Total Hip Arthroplasty", Simmons, E.D., Sullivan, J.A., Reilly, D.T., Poss, R.: JOURNAL OF BONE AND JOINT SURGERY, ORTHOPAEDIC TRANSACTIONS, Vol. 73B, Supp. 1, 1991.
12. "Long-Term Review of the Capitello-Condylar Total Elbow Replacement", Sullivan, J.A., Simmons, E.D., Ewald, F.C.: JOURNAL OF BONE AND JOINT SURGERY, ORTHOPAEDIC TRANSACTIONS, Vol. 73B, Supp. 1, 1991.
13. "Long-Term Review of Capitello-Condylar Total Elbow Replacement", Simmons, E.D., Sullivan, J.A., Ewald, F.C.: JOURNAL OF BONE AND JOINT SURGERY, ORTHOPAEDIC TRANSACTIONS, Vol. 14(3), Fall, 1990.
14. "Treatment of Posterior Tibial Tendon Insufficiency With Talo-Navicular Fusion", Simmons, E.D., Sullivan, J.A., Thomas, W.H.: JOURNAL OF BONE AND JOINT SURGERY, ORTHOPAEDIC TRANSACTIONS, Vol.15(1), Spring 1991.
15. "The Accuracy of Tibial Intramedullary Alignment Devices in Total Knee Replacement", Simmons, E.D., Sullivan, J.A., Rackemann, S., and Scott, R.D.: JOURNAL OF BONE AND JOINT SURGERY, ORTHOPAEDIC TRANSACTIONS, Vol. 15(3), Fall 1991.
16. "Anterior Cervical Discectomy and Fusion With the Keystone Technique: A Long-Term Evaluation", Simmons, E.H., Bailey, S.I., Light, K.I., Simmons, E.D., and Maguire, J.K.: JOURNAL OF BONE AND JOINT SURGERY, ORTHOPAEDIC TRANSACTIONS, Vol. 15(3), p. 678, Fall 1991.
17. "Anterior Cervical Discectomy and Fusion With the Keystone Technique": A Long-Term Evaluation". Simmons, E.H., Bailey, S.I., Light, K.I., Simmons, E.D., Maguire, J.K., and David, S.M.: JOURNAL OF BONE AND JOINT SURGERY, ORTHOPAEDIC TRANSACTIONS, Vol. 15(3), p. 813, Fall, 1991.
18. "The Dewar Posterior Cervical Fusion: Description and Comparative Results", Bernstein, A.J., Delahunt, S.P., Simmons, E.H., Capicotto, W.N., Simmons, E.D.: JOURNAL OF BONE AND JOINT SURGERY, ORTHOPAEDIC TRANSACTIONS, Vol. 16(1), p. 151, Spring 1992.
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SCIENTIFIC PRESENTATIONS TO NATIONAL AND INTERNATIONAL MEETINGS

1. "The Effect of Fluoride on Bone Mineral", Simmons, E.D., Grynepas, M.D., Pritzker, K.P.H., Harrison, J.E.: 1984 Annual Meeting of the Clinical Research Society of Toronto, March 24, 1984.
2. "Fluoride-Induced Changes in Bone Mineral", Simmons, E.D., Grynepas, M.D., Pritzker, K.P.H., Harrison, J.E.: Canadian Orthopaedic Research Society, Winnipeg, June 11, 1984.
3. "The Relationship Between Proteoglycan and Bone Mineral in Newborn and Adult Rabbits", Grynepas, M.D., Hunter, G.K., Simmons, E.D.: American Society for Bone and Mineral Research, Hartford, Connecticut, June 28, 1984.
4. "The Effects of Fluoride on Bone Mineral", Simmons, E.D., Grynepas, M.D., Pritzker, K.P.H.: Gordon Conference on Bone and Teeth, Kimball Union, New Hampshire, July 18, 1984.
5. "Bone Mineral Changes in Aging Human Cortical Bone", Simmons, E.D., Grynepas, M.D., Pritzker, K.P.H.: Orthopaedic Research Society, Las Vegas, January 22, 1985.
6. "Mineralization Profile: A Sensitive Indicator of Bone Pathology", Simmons, E.D., Grynepas, M.D., Pritzker, K.P.H.: Canadian Association of Pathologists, Edmonton, Alberta, June 25, 1985.
7. "Aging Changes in Human Cortical Bone", Simmons, E.D., Grynepas, M.D., Pritzker, K.P.H.: Canadian Orthopaedic Residents' Association, Annual Meeting, Toronto, May 1985.
8. "Is Fluoridated Bone Different From Non-Fluoridated Bone?", Grynepas, M.D., Simmons, E.D., Pritzker, K.P.H., Hancock, R.V., Harrison, J.E.: Cell Mediated Calcification Conference, Cambridge, England, July 1985.
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10. "Patella Alta and Recurrent Dislocation of the Patella", Simmons, E.D., Cameron, J.C.: Third Congress of the European Society of Knee Surgery and Arthroscopy, Amsterdam, Netherlands, May 18, 1988.

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16. "Osteopenia--Its Effect on Spinal Disability and Attempts at Surgical Reconstruction", Simmons, E.D.: Presented at "The Art and Science of Spinal Deformity and Trauma in 1989", Buffalo, New York, July 7, 1989.
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28. "Evaluation of the Injured Back", Simmons, E.D.: Presented at "Spinal Injuries in the Athlete", Olean, New York, October 27, 1990.
29. "Conservative Management of the Injured Back", Simmons, E.D.: Presented at "Spinal Injuries in the Athlete", Olean, New York, October 27, 1990.
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36. "Accuracy of Tibial Intramedullary Alignment Devices in Total Knee Replacement": Simmons, E.D., Sullivan, J.A., Rackemann, S., Scott, R.D.: American Academy of Orthopaedic Surgeons, 58th Annual Meeting, Anaheim, California, March 8, 1991.
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82. "Biomechanical Comparison of the Rogers and Dewar Cervical Spine Fixation Techniques", Simmons E.D., Burke T., Haley T., Medige J.: American Academy of Orthopaedic Surgeons, 60th Annual Meeting, San Francisco, California, February 18, 1993.
83. "The Dewar Posterior Cervical Fusion: Description and Comparative Results", Bernstein AJ, Simmons EH, Capicotto WN, Simmons ED, Delahunt SP, and Graziano GP,: Federation of Spine Associations, Academy of Orthopaedic Surgeons Specialty Day, San Francisco, California, February 21, 1993.

84. "Clinical Indications for Use of Internal Electrical Stimulation for Spinal Fusion", Simmons, E.D.,: EBI Medical Systems, Spine Surgeon's Special Forum, Parsippany, New Jersey March 12, 1993.
85. "The 'Dewar' Cervical Fusion Technique", Simmons, ED: Presented at 13th Annual meeting of the Simmons Surgical Society, Louisville, Kentucky, April 29, 1993.
86. "Pathogenesis of Low Back Pain and Sciatica", Simmons, E.D.: American Back Society, Buffalo, New York, May 19-22, 1993.
87. "Value of Back School in Education, Prevention, and Treatment of Disability", Simmons, E. D.: American Back Society, Buffalo, New York, May 19-22, 1993.
88. "Clinical Experience with EBI Medical Systems Implantable Spinal Fusion Stimulator", Simmons, E.D.: American Back Society, Buffalo, New York, May 19-22, 1993.
89. ABS Special Surgical Event - Advantages and Disadvantages of Pedicle Screw Systems in Spinal Surgery, Simmons, E.D.: American Back Society, Buffalo, New York, May 19-22, 1993.
90. Approach to the Management of the Industrial Spine, Including Diagnosis, Treatment, and Rehabilitation of the Injured Worker, Panel Discussion: American Back Society, Buffalo, New York, May 19-22, 1993.
91. "Anterior Cervical Discectomy and Fusion with the Keystone Technique: A Multi-Centered Long-Term Evaluation", Edward H. Simmons, M.D., S.I. Bailey, M.D., Kenneth I. Light, M.D., Edward D. Simmons, M.D.: Presented to the 48th Annual Meeting of the Canadian Orthopaedic Association, Montreal, Quebec, June 2, 1993.
92. "The Role of Electrical Stimulation in Spine Surgery", Simmons, E.D.: Presented to "Controversies in Spine Surgery, Third Annual Symposium", Section of Spine Surgery, Department of Orthopaedic Surgery, William Beaumont Hospital, Royal Oak, Michigan, July 16, 1993.
93. "Spinal Stenosis with Scoliosis - Decompression vs. Decompression and Fusion", Simmons, E.D.: Presented to "Controversies in Spine Surgery, Third Annual Symposium", Section of Spine Surgery, Department of Orthopaedic Surgery, William Beaumont Hospital, Royal Oak, Michigan, July 16, 1993.

94. "Current Surgical Techniques in Lumbar Disc Disease", Simmons, E.D.: Presented to "1st Annual Spine Symposium", Department of Medical Education, The Methodists Hospitals, Inc., Merrillville, Indiana, November 13, 1993.
95. "Advances in Surgical Management of Idiopathic Scoliosis", Simmons, E.D.: Presented to "1st Annual Spine Symposium", Department of Medical Education, The Methodists Hospitals, Inc., Merrillville, Indiana, November 13, 1993.
96. "The Effect of Crushed Cancellous Allograft Augmentation of Autogenous Bone Graft for Instrumented Posterolateral Lumbar Fusions", O'Donnell, J.L., Blab, M., Simmons, E.H., Simmons, E.D., Presented to the Second Annual Symposium, Techniques in Spinal Surgery, Spinal Science Advancement Foundation, New York City, New York, December 1, 1993.
97. "Luque Segmental Instrumentation of the Cervical Thoracic Spine", Capicotto, P.N., Simmons, E.H., Simmons, E.D., Presented to the 21st Annual Meeting of the Cervical Spine Research Society Meeting, New York, New York, December 4, 1993.
98. "A Biomechanical Comparison of the Dewar and Rogers Cervical Spine Fixation Techniques", Simmons, ED, Thirty-sixth Annual Meeting Rocky Mountain Traumatologic Society, Snowmass Village, Colorado, January 28, 1994.
99. "Luque Segmental Instrumentation of the Cervical-Thoracic Spine", Capicotto, P.N., Simmons, E.D., Simmons, E.H., Scientific Exhibit, 61st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, February 24-March 1, 1994.
100. Role of Discography and MRI in Evaluating Discogenic Pain of the Cervical Spine, Capicotto, P.N., Markowitz, H.D., Simmons, E.H., Simmons, E.D., Poster Exhibit, 61st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, February 24-March 1, 1994.
101. "The Effect of Crushed Cancellous Allograft Augmentation of Autogenous Bone Graft for Instrumented Postero-lateral Lumbar Fusions", O'Donnell, J.L., Blab, M., Simmons, E.H., Simmons, E.D., Presented to the 61st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, February 28, 1994.
102. "The Surgical Treatment with CD Double Threaded Screws of Spondylolisthesis." Simmons, E.D.: Presented at 14th Annual Meeting of the Simmons Surgical Society, Cleveland, Ohio, April 9, 1994.

103. "Role of Discography and MRI in Evaluating Discogenic Pain of the Cervical Spine", Capicotto, P.N., Markowitz, H.D., Simmons, E.D., Simmons, E.H., Presented to the 1994 Annual Meeting of the Mid-America Orthopaedic Association, Bermuda, April 30, 1994
104. "A Biomechanical Comparison of the Dewar and Rogers Cervical Spine Fixation Techniques", Simmons, E.D., Burke, T., Haley, T., Medige, J., Presented to the 1994 Annual Meeting of the Mid-America Orthopaedic Association, Bermuda, April 30, 1994
105. "Cervical Fusion Using the Dewar Technique", Simmons, E.D., Presented to the 39th Annual Meeting of Lamplighters Orthopaedic Association, Albuquerque & Sante Fe, New Mexico, May 21, 1994.
106. "Familial Pre-disposition for Degenerative Disc Disease: A Cohort Study", Seidel, T, Braun, F.M., Guntupalli, M., Kowalski, J.M., Simmons, E.D., Presented to the 21st Annual meeting of the International Society for the Study of the Lumbar Spine, Seattle, Washington, June 24, 1994.
107. "Familial Pre-disposition For Degenerative Disc Disease", Simmons, E.D., Presented to the 36th Annual Meeting of the Dewar Orthopaedic Society, Halifax, Nova Scotia, September 11, 1994.
108. "Operative Treatment of Recurrent Lumbar Disc Herniation with Mid-Term Follow-Up", Capicotto, P.N., Guntupalli, M., Warner, S.J., O'Donnell, J.L., Simmons, E.H., Simmons, E.D., Presented to the Ninth Annual Meeting of the North American Spine Society, Minneapolis, Minnesota, October 21, 1994.
109. "Interobserver Variability in Grading Lumbar Spine Fusions" Hamill, C.L., Simmons, E.D., Presented to the Ninth Annual Meeting of the North American Spine Society, Minneapolis, Minnesota, October 21, 1994.
110. "Comparison of Surgical Techniques for the Treatment of Degenerative Spondylolisthesis", Warner, S.J., Simmons, E.D., Presented to the Ninth Annual Meeting of the North American Spine Society, Minneapolis, Minnesota, October 21, 1994.
111. "The Use of Cotrel-Dubousset Double-Threaded Screw Instrumentation for Reduction of Lumbar Spondylolisthesis", Simmons, E.D., Presented to the Ninth Annual Meeting of the North American Spine Society, Minneapolis, Minnesota, October 21, 1994.
112. "Interobserver Variability in Grading Lumbar Spine Fusion Status", Hamill, C.L., Simmons, E.D., Presented to the 62nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, Florida, February 18, 1995.

113. "Prostaglandin E₂ Content in Herniated Lumbar Disc Disease", O'Donnell, J.L., O'Donnell, A.L., Simmons, E.D., Simmons, E.H., Presented to the 62nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, Florida, February 18, 1995.
114. "Epidural Perineural Injection for Lumbar Radicular Syndrome A Prospective Double Blind Study", "Evaluation of Continuous Intraspinous Narcotic Analgesia for Chronic Benign Pain", "Extradural Sensory Rhizotomy in the Management of Chronic Radiculopathy after Surgery", discussor of papers at the 62nd Annual Meeting of the Academy of Orthopaedic Surgeons, Orlando, Florida, February 18, 1995.
115. "Familial Pre-Disposition to Degenerative Disc Disease", Seidel, T, Braun, F.M., Guntupalli, M., Kowalski, J.M., Simmons, E.D.: Presented at 15th Annual Meeting of the Simmons Surgical Society, Rancho Mirage, California, April 1995.
116. "Indications for Pedicle Screw Placement", Simmons, E.D., Pedicle Screws: Update and Current Techniques, Orthopaedic Learning Center, Minneapolis, Minnesota, June 3, 1995.
117. "Interobserver Variability in Grading Lumbar Spine Fusions", Simmons, E.D., Hamill, C.L., Presented to the 22nd Annual Meeting of the International Society for the Study of the Lumbar Spine, Helsinki, Finland, June 22, 1995.
118. "MRI Myelography - Its Place in Spinal Surgery", Craven, T., Simmons, E.H., Markowitz, H.D., Simmons, E.D., Presented at the 37th Annual Meeting of the Dewar Orthopaedic Society, Cambridge, Ontario, September 14, 1995.
119. "MRI Myelography - Its Place in Spinal Surgery", Craven, T., Simmons, E.H., Markowitz, H.D., Simmons, E.D., Poster presentation at the 30th Annual Meeting of the Scoliosis Research Society, Asheville, North Carolina, September 13-17, 1995.
120. "MRI Myelography - Its Place in Spinal Surgery", Craven, T., Simmons, E.H., Markowitz, H.D., Simmons, E.D., Presented to the 10th Annual Meeting of the North American Spine Society, Washington, D. C., October 20, 1995.
121. "Reliability of Roentgenogram Evaluation of Pedicle Screw Position", Simmons, E.D., Ferrick, M.R. Kowalski, J.M., Presented to the 10th Annual Meeting of the North American Spine Society, Washington, D. C., October 20, 1995.
122. "Reliability of Roentgenogram Evaluation of Pedicle Screw Position", Simmons, E.D., Ferrick, M.R., Kowalski, J.M., Poster, Presented to the 10th Annual Meeting of the North American Spine Society, Washington, D. C., October 20, 1995.

123. "MRI Myelography - Its Place in Spinal Surgery", Craven, T., Simmons, E.H., Markowitz, H.D., Simmons, E.D., Presented to the Rocky Mountain Traumatologic Society, Snowmass Village, Colorado, January 25, 1996.
124. "Reliability of Roentgenogram Evaluation of Pedicle Screw Position", Simmons, E.D., Ferrick, M.R., Kowalski, J.M.: Presented at 16th Annual Meeting of the Simmons Surgical Society, Chicago, IL, April 25, 1996.
125. "MRI Myelography - Its Place in Spinal Surgery", Craven, T., Simmons, E.H., Markowitz, H.D., Simmons, E.D., Poster presentation to Spring Clinical Day '96, University of New York at Buffalo, May 11, 1996.
126. "MRI Myelography: Its Place in Spinal Surgery", E.H. Simmons, T.G. Craven, H.D. Markowitz, E.D. Simmons, Presented to the 51st Annual Meeting of the Canadian Orthopaedic Association, Quebec City, Canada, May 28, 1996.
127. "A Comparative Analysis of Instrumented Versus Non-Instrumented Lumbar Fusion", E.D. Simmons, C. Munschauer, Y. Zheng, Poster presentation to the 3rd International Meeting on Advanced Spinal Techniques, Munich, Germany, June 19, 1996.
128. "Anterior Instrumentation for Thoracolumbar Scoliosis Comparison of Dwyer, Zielke, and TSRH Instrumentation Systems, E.D. Simmons, S. Dhawlikar, Poster presentation to the 3rd International Meeting on Advanced Spinal Techniques, Munich, Germany, June 19, 1996.
129. "A Patient Based Clinical Outcome of Cervical Laminoplasty with Minimum 2 Year Follow-up", E.D. Simmons, T.M. Leone, M. D., E.H. Simmons, H.D. Markowitz, Presented to the 3rd International Meeting on Advanced Spinal Techniques, Munich, Germany, June 19, 1996.
130. "MRI Myelography: Its Place in Spinal Surgery", E.H. Simmons, T.G. Craven, H.D. Markowitz, E.D. Simmons, Poster presentation to the 23rd Annual Meeting of the International Society for the Study of the Lumbar Spine, Burlington, Vermont, June 25-29, 1996.
131. "Anterior Instrumentation for Thoraco-Lumbar Scoliosis: Comparison of Dwyer, Zielke, and TSRH Instrumentation Systems", S. Dhawlikar, Y. Zheng, E.D. Simmons, Poster presentation to the 31st Annual Meeting of the Scoliosis Research Society, Ottawa, Ontario, Canada, September 25-28, 1996.
132. "A Comparative Analysis of Instrumented Versus Non-Instrumented Lumbar Fusion", E.D. Simmons, C. Munschauer, Y. Zheng, Poster presentation to the 31st Annual Meeting of the Scoliosis Research Society, Ottawa, Ontario, Canada, September 27, 1996.

133. "A Comparative Analysis of Instrumented Versus Non-Instrumented Lumbar Fusion", E.D. Simmons, C. Munschauer, Y. Zheng, Presented to the 11th Annual Conference of the North American Spine Society, Vancouver, B. C., Canada, October 24, 1996.
134. "A Review of Patients Requiring Repeat Cervical Spine Surgery for Adjacent Level Degeneration or Pseudarthrosis", J.S. Hruska, E.D. Simmons, Poster Presentation to the 24th Annual Meeting of the Cervical Spine Research Society Meeting, The Breakers, Palm Beach, Florida, December 5-7, 1996.
135. "A Review of Patients Requiring Repeat Cervical Spine Surgery for Adjacent Level Degeneration or Pseudarthrosis", J.S. Hruska, E.D. Simmons, Poster Presentation to the 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, California, February 14, 1997.
136. "A Comparative Analysis of Instrumented and Non-Instrumented Lumbar Fusion, E.D. Simmons, C.E. Munschauer, Y. Zheng, Poster Presentation to the 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, California, February 15, 1997.
137. "L4-S1 Fusions: Comparison with and without Pedicle Screws at L-5", M.L. Smith, E.D. Simmons, Y. Zheng, Poster Presentation to the 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, California, February 15, 1997.
138. "Clinical Outcome of Cervical Laminoplasty with Minimum Two-Year Follow-Up", H.D. Markowitz, E.D. Simmons, A.M. Leone, E.H. Simmons, Poster Presentation to the 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, California, February 14, 1997.
139. "Anterior Instrumentation for Thoraco-Lumbar Scoliosis: Comparison of Dwyer, Zielke, and TSRH Instrumentation Systems", S.H. Dhawlikar, Y. Zheng, E.D. Simmons, Poster Presentation to the 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, California, February 16, 1997.
140. "A Comparative Analysis of Instrumented and Non-Instrumented Lumbar Fusion", E.D. Simmons, C.E. Munschauer, Y. Zheng, Presented to the 12th Annual Meeting of the Federation of Spine Associations, San Francisco, California, February 16, 1997.
141. "A Comparative Analysis of Instrumented and Non-Instrumented Lumbar Fusion", E.D. Simmons, C.E. Munschauer, Y. Zheng, Poster presentation to the 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, California, February 17 1997.

142. "A Comparative Analysis of Instrumented and Non-Instrumented Lumbar Fusion", E.D. Simmons, C.E. Munschauer, Y. Zheng, Presented to the Association of Bone and Joint Surgeons, Scottsdale, Arizona, May 1, 1997.
143. "A Comparative Analysis of Instrumented and Non-Instrumented Lumbar Fusion", E.D. Simmons, C.E. Munschauer, Y. Zheng: Presented at 17th Annual Meeting of the Simmons Surgical Society, Buffalo, NY, May 14-18, 1997.
144. "A Comparative Analysis of Instrumented and Non-Instrumented Lumbar Fusions", Y. Zheng, E.D. Simmons, Poster presentation to the International Society for the Study of Lumbar Spine, Singapore, June 5, 1997.
145. "Surgical Treatment of Inflammatory Spondylarthropathies", E.D. Simmons, Instructional Course - Management of Low Back Pain - The Current State of the Art, Singapore, June 6-8, 1997.
146. "Surgical Management of Spinal Stenosis With Degenerative Scoliosis", E.D. Simmons, Presented at the 39th Annual Meeting of the Dewar Orthopaedic Society, Buffalo, New York, August 23, 1997.
147. "Review of Results in Anterior Cervical Keystone Fusion over Ten Years", S.M. Liew, Y. Zheng, J. Wade, E.D. Simmons, Presented to the 12th Annual Meeting of the North American Spine Society, New York, New York, October 23, 1997.
148. "The Significance of MRI and Discography in Determining the Level of Cervical Discectomy and Fusion", Y. Zheng, S.M. Liew, E.D. Simmons, Presented to the 12th Annual Meeting of the North American Spine Society, New York, New York, October 23, 1997.
149. "The Effect of Graft Resorption on the Clinical Results in Anterior Cervical Keystone Fusion" Poster Presentation to the 12th Annual Meeting of the North American Spine Society, New York, New York, October 22-25, 1997.
150. "Review of Results in Anterior Cervical Keystone Fusion over Ten Years", S.M. Liew, Y. Zheng, J. Wade, E.D. Simmons, Presented to the 10th Annual Combined Meeting of the Orthopaedic Associations of the English Speaking World, Auckland, New Zealand, February 4, 1998.
151. "The Significance of MRI and Discography in Determining the Level of Cervical Discectomy and Fusion", Y. Zheng, S.M. Liew, E.D. Simmons, Presented to the 10th Annual Combined Meeting of the Orthopaedic Associations of the English Speaking World, Auckland, New Zealand, February 4, 1998.

152. "The Effect of Graft Resorption on the Clinical Results in Anterior Cervical Keystone Fusion" Poster Presentation to the 12th Annual Combined Meeting of the Orthopaedic Associations of the English Speaking World, Auckland, New Zealand, February 1-6, 1998.
153. "Long Term Results of Anterior Cervical Discectomy with Keystone Fusion Technique", E.D. Simmons, S.M. Liew, Y. Zheng, J. Wade, Presented to the 40th Annual Meeting of the Dewar Orthopaedic Society, Barrie, Ontario, September 12, 1998.
154. "Long Term Review of Anterior Cervical Discectomy With Keystone Fusion Technique", E.D. Simmons, S. M. Liew, Y. Zheng, J. Wade, Poster Presented to the 112th Annual Meeting of the American Orthopaedic Association, Sun Valley, Idaho, June 5-8, 1999.
155. "Long Term Review of Anterior Cervical Discectomy With Keystone Fusion Technique", E.D. Simmons, S. M. Liew, Y. Zheng, J. Wade, presented to the 51st Annual Meeting of the Association of Bone and Joint Surgeons, Amelia Island, Florida, May 13, 1999.
156. "Active Range of Motion in the Cervical Spine Required to Perform Daily Functional Tasks", Bennett, S. E., Schenk, R. J., Simmons, E. D., Presented at the 20th Annual Meeting of the Simmons Surgical Society, Napa Valley, California, May 4, 2000.
157. "Active Range of Motion in the Cervical Spine Required to Perform Daily Functional Tasks", Bennett, S. E., Schenk, R. J., Simmons, E. D., Presented to the 52nd Annual Meeting of the Association of Bone and Joint Surgeons, San Antonio, Texas, May 18, 2000.
158. "Active Range of Motion in the Cervical Spine Required to Perform Daily Functional Tasks", Bennett, S. E., Schenk, R. J., Simmons, E. D., Presented to the 28th Annual Meeting of the Cervical Spine Research Society, Charleston, South Carolina, November 30, 2000.
159. "Evaluation of Metabolic Bone Disease as a Risk Factor for Lumbar Fusion" E.D. Simmons, J. Kuhele, J. Lee, L. Lee, M. Grynepas, Presented to the International Society for Study of the Lumbar Spine, Edinburgh, Scotland, June 19, 2001.
160. "Evaluation of Metabolic Bone Disease as a Risk Factor for Lumbar Fusion" E.D. Simmons, J. Kuhele, J. Lee, L. Lee, M. Grynepas, Presented at 22nd Annual Meeting of the Simmons Surgical Society, Miami, Florida, April 13, 2002.
161. "Evaluation of Metabolic Bone Disease as a Risk Factor for Lumbar Fusion" E.D. Simmons, J. Kuhele, J. Lee, L. Lee, M. Grynepas, Presented to the 115th Annual Meeting of the American Orthopaedic Association & the 57th Annual Meeting of the Canadian Orthopaedic Association, Victoria, British Columbia, June 2, 2002

162. "Evaluation of Metabolic Bone Disease as a Risk Factor for Lumbar Fusion" E.D. Simmons, J. Kuhele, J. Lee, L. Lee, M. Grynypas, Poster Presented to the 17th Annual Meeting of the North American Spine Society, Montreal, Quebec, October 29th – November 2nd, 2002
163. "Evaluation of Metabolic Bone Disease as a Risk Factor for Lumbar Fusion" E.D. Simmons, J. Kuhele, J. Lee, L. Lee, M. Grynypas, Presented to the 15th Annual Contemporary Update on Disorders of the Spine, Whistler, British Columbia, January 18, 2003
164. "Cervical Osteotomy – Typical Cases", E.D. Simmons, Presented to the 15th Annual Contemporary Update on Disorders of the Spine, Whistler, British Columbia, January 19, 2003
165. "Anterior Reconstruction for Metastatic Lumbar Tumor", E.D. Simmons, Presented to the 15th Annual Contemporary Update on Disorders of the Spine, Whistler, British Columbia, January 20, 2003
166. "An Outcome Review of the BacFix® Pedicle Screw System for Lumbar Fusion", E.D. Simmons, Y. Zheng, Presented to the 15th Annual Contemporary Update on Disorders of the Spine, Whistler, British Columbia, January 21, 2003
167. "Degenerative Lumbar Scoliosis", E.D. Simmons, Presented to the 15th Annual Contemporary Update on Disorders of the Spine, Whistler, British Columbia, January 22, 2003
168. "Effects of Osteoporosis on Spinal Surgery", E.D. Simmons, Presented to the 15th Annual Contemporary Update on Disorders of the Spine, Whistler, British Columbia, January 22, 2003
169. "Radiographic Evaluation of Multilevel Lumbar Decompression and Fusion With Instrumentation In Patients Aged Sixty Years Or Older" E.D. Simmons, C.B. Huckell, Y. Zheng, Poster Presented to the 38th Annual Meeting of the Scoliosis Research Society, Quebec City, Quebec, September 11-13, 2003
170. "Thoracic Discectomy and Fusion For Thoracic Disc Herniation", E.D. Simmons, Y. Zheng, Presented to the 45th Annual Meeting of the Dewar Orthopaedic Society, Buffalo, New York, September 20, 2003
171. "Radiographic Evaluation of Multilevel Lumbar Decompression and Fusion With Instrumentation In Patients Aged Sixty Years Or Older" E.D. Simmons, C.B. Huckell, Y. Zheng, Poster Presented to the 18th Annual Meeting of the North American Spine Society, San Diego, California, October 22-25, 2003

172. "Proximal Kyphosis, Topping Off Syndrome and Retrolisthesis Secondary to Multiple Lumbar Fusion In the Elderly Patient" E.D. Simmons, C.B. Huckell, Y. Zheng, Presented to the 2004 Meeting of the International Society for the Study of the Lumbar Spine, Porto, Portugal, June 1, 2004
173. "Radiographic Evaluation of Multilevel Lumbar Decompression and Fusion With Instrumentation In Patients Aged Sixty Years Or Older" E.D. Simmons, C.B. Huckell, Y. Zheng, Poster Presented to the 2004 Meeting of the International Society for the Study of the Lumbar Spine, Porto, Portugal, May31- June 5, 2004
174. "Proximal Kyphosis, Topping Off Syndrome and Retrolisthesis Secondary to Multiple Lumbar Fusion In the Elderly Patient" E.D. Simmons, C.B. Huckell, Y. Zheng, Presented to the 59th Annual Meeting of the Canadian Orthopaedic Association, Calgary, Alberta, Canada, June 18, 2004
175. "A Preliminary 2-Year Radiographic Assessment of Interbody Lumbar Fusion with Machined Allograft Bone Cage and Instrumentation" C.B. Huckell, Y. Zheng, Poster Presented to the 59th Annual Meeting of the Canadian Orthopaedic Association, Calgary, Alberta, Canada, June 18-20, 2004
176. "Radiographic Evaluation of Multilevel Lumbar Decompression and Fusion With Instrumentation In Patients Aged Sixty Years Or Older" E.D. Simmons, C.B. Huckell, Y. Zheng, Poster Presented to the 2004 Meeting of the Association of Bone and Joint Surgeons, Nashville, Tennessee, June 17, 2004
177. "Proximal Kyphosis, Topping Off Syndrome and Retrolisthesis Secondary to Multiple Lumbar Fusion In the Elderly Patient" E.D. Simmons, C.B. Huckell, Y. Zheng, Poster Presented to the 19th Annual Meeting of the North American Spine Society, Chicago, Illinois, October 26-30, 2004
178. "Thirty-six Years Experience of Cervical Extension Osteotomy in Ankylosing Spondylitis: Techniques and Outcomes" Simmons, E.D., DiStefano, R.J., Zheng, Y., Simmons, E.H. Presented to the 19th Annual Meeting of the North American Spine Society, Chicago, Illinois, October 30, 2004
179. "The Significance of Annular Tear of Cervical Disc for Positive Discography by Age in Discogenic Pain" Huckell, CB, Zheng, Y, Simmons, ED, Poster Presented to the 32nd Annual Meeting of the Cervical Spine Research Society, Boston, Massachusetts, December 9-11, 2004

180. "Comparison of Conventional and Current Surgical Techniques of Cervical Extension Osteotomy in Ankylosing Spondylitis" Simmons ED, DiStefano RJ, Zheng Y, Simmons EH, Poster Presented to the 32nd Annual Meeting of the Cervical Spine Research Society, Boston, Massachusetts, December 9-11, 2004
181. "Current Technique of Cervical Osteotomy in Ankylosing Spondylitis: Sitting Position, Local Anesthesia and Modified Resection Area", Simmons ED, Zheng Y, Poster Presented to the 32nd Annual Meeting of the Cervical Spine Research Society, Boston, Massachusetts, December 9-11, 2004
182. "Thirty-Six Years Experience of Cervical Extension Osteotomy in Ankylosing Spondylitis: Techniques and Outcomes, Simmons ED, DiStefano R, Zheng Y, Simmons EH, Paper Presented to the 32nd Annual Meeting of the Cervical Spine Research Society, Boston, Massachusetts, December 9-11, 2004
183. "Thirty-six Year Experience of Cervical Extension Osteotomy in Ankylosing Spondylitis: Techniques and Outcomes" Simmons, E.D., DiStefano, R., Zheng, Y., Simmons, E.H., Presented to the 72nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Washington, DC, February 23, 2005
184. "Proximal Kyphosis, Topping Off Syndrome and Retrolisthesis Secondary to Multiple Lumbar Fusion In the Elderly Patient" E.D. Simmons, C.B. Huckell, Y. Zheng, Poster Presented to 72nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Washington, DC, February 23-27, 2005
185. "Comparison of Occurrence of Sacroiliac Joint Pain Following Multi-level Lumbar Fusion to S1 Versus to L5 or Above Level" E.D. Simmons, C.B. Huckell, Y. Zheng, Poster Presented to 32nd Annual Meeting of the International Society for the Study of the Lumbar Spine, New York, NY May 10-14, 2005
186. "The Diagnosis and Management of Sacroiliac Joint Pain in Patients With Lumbar Fusion", E.D. Simmons, C.B. Huckell, Y. Zheng, Poster Presented to 32nd Annual Meeting of the International Society for the Study of the Lumbar Spine, New York, NY May 10-14, 2005
187. "'Beware the Hip Joint" A Cautionary Word for Spine Surgeons", E.D. Simmons, C.B. Huckell, Y. Zheng, Poster Presented to 32nd Annual Meeting of the International Society for the Study of the Lumbar Spine, New York, NY May 10-14, 2005

188. "Screening Candidates for One Level of Disc Replacement During One Year Period in a Cohort of Lumbar Surgery Patients", E.D. Simmons, C.B. Huckell, Y. Zheng, Poster Presented to 32nd Annual Meeting of the International Society for the Study of the Lumbar Spine, New York, NY May 10-14, 2005
189. "Comparison of the Fusion Rates and Degenerative Changes of Adjacent Level Following Lumbar Fusion in Younger and Older Patients", E.D. Simmons, C.B. Huckell, Y. Zheng, Poster Presented to 32nd Annual Meeting of the International Society for the Study of the Lumbar Spine, New York, NY May 10-14, 2005.
190. "Long-term (36 yr.) Review of cervical Osteotomy in the Treatment of Ankylosing Spondylitis." Simmons ED. Presented at 26th Annual Meeting of the Simmons Surgical Society, Boston, Massachusetts, April 27, 2006.
191. "Thirty-six Years Experience of Cervical Extension Osteotomy in Ankylosing Spondylitis: Techniques and Outcomes" Simmons, E.D., DiStefano, R.J., Zheng, Y., Simmons, E.H, Poster Presented to the 116th Meeting of the American Orthopaedic Association, San Antonio, Texas, June 21-24, 2006
192. "Thirty-six Years Experience of Cervical Extension Osteotomy in Ankylosing Spondylitis: Techniques and Outcomes" Simmons, E.D., DiStefano, R.J., Zheng, Y., Simmons, E.H., Presented at the 11th Instructional Course of the Cervical Spine Research Society, December 3-4, 2006 in Palm Beach Florida.
193. "The Association Between Cervical Disc Disease and Rotator Cuff Arthropathy", Simmons, E.D., Presented at 27th Annual Meeting of the Simmons Surgical Society, Santa Monica, CA, April 26, 2007.
194. "A Comparative Study of Tantalum Trabecular Metal Spacers versus Allograft in Anterior Cervical Fusion" Simmons, Presented at 30th Annual Meeting of the Simmons Surgical Society in Houston, TX, April 23, 2010.
195. "Incidence and Characterization of Bone Graft Site Pain in Lumbar Spine Fusion Patients" Simmons, E.D., Presented at 30th Annual Meeting of the Simmons Surgical Society, Philadelphia, PA, May 6, 2011.
196. "Incidence and Characterization of Bone Graft Donor Site Pain in Patients undergoing Lumbar Fusion" O'Hear, Kelly, Simmons, Edward D. Presented at the International Society for the Study of the Lumbar Spine, Gothenburg, Sweden, June 14-18, 2011.

SCIENTIFIC PRESENTATIONS TO REGIONAL AND LOCAL MEETINGS

1. "Uses of Bone Density Fractionation to Study Mineral Changes in a Rat Model for Osteoporosis", Simmons, E.D., Grynypas, M.D., Pritzker, K.P.H.: Orthopaedic Research Day, University of Toronto, October 15, 1983.
2. "Aging Changes in Human Cortical Bone", Simmons, E.D., Grynypas, M.D., Pritzker, K.P.H.: Orthopaedic Research Day, University of Toronto, December 1, 1984.
3. "Patella Alta As A Cause of Recurrent Dislocation of the Patella", Simmons, E.D., Cameron, J.C.: Kennedy Visiting Professor Day, University of Toronto, May 1986.
4. "Case Presentation: Hereditary Multiple Exostoses", Simmons, E.D., Graham, H.K.: Academy of Medicine, Toronto, February 19, 1987.
5. "Radiological Grading of Legg-Perthes' Disease--A Reliable Basis for Treatment?", Simmons, E.D., Graham, H.K., Salter, R.B.: Kennedy Visiting Professor Day, University of Toronto, April 30, 1987.
6. "The Biological Principles and Clinical Applications of the Ilizarov Techniques", Simmons, E.D., Wolfson, N.: Orthopaedic and Arthritic Hospital, December 18, 1987.
7. "Congenital Spine Deformity", University of Washington, Residents' Conference, December 1988.
8. "Orthopaedic Aspects of Osteoporosis and Metabolic Bone Disease", State University of New York at Buffalo, Orthopaedic Conference, May 11, 1989.
9. "Cervical Spine Instability and Neurologic Involvement in Klippel-Feil Syndrome", Simmons, E.D., Hall, J.E., Danylchuk, R., Barnes, P.D.: State University of New York at Buffalo, Combined University Spine Rounds, September 16, 1989.
10. "Congenital Spine Deformity", Simmons, E.D.: Combined University Spine Rounds, State University of New York at Buffalo, October 25, 1989.
11. "Migration of Uncemented, Cemented, and Bipolar Acetabular Components", Simmons, E.D.: 1989 Scientific Program of the Hospital for Joint Diseases Orthopaedic Institute, New York, October 28, 1989.
12. "Long Term Results of Unconstrained Total Elbow Replacement", Western New York Orthopaedic Society, 40th Annual Frank N. Potts Day, November 4, 1989.

13. "Back Education--Its Need and Results", Advanced in Diagnosis and Treatment of Spinal Disease, Orthopaedic Life Sciences Symposium, The Foundation for the Buffalo General Hospital, Buffalo General Hospital, November 15, 1989.
14. "Current Status of Elbow Joint Reconstruction", Simmons, E.D.: Department of Orthopaedic Surgery Teaching Conference, State University of New York at Buffalo, December 14, 1989.
15. "Total Elbow Replacement", Simmons, E.D.: Arthritis Society Meeting, Arthritis Foundation of Western New York, January 9, 1990.
16. "Post-Traumatic Pseudarthrosis", Oni, R., Simmons, E.D., Simmons, E.H.: Combined University Spine Rounds, State University of New York at Buffalo, March 17, 1990.
17. "The Management of Spinal Fractures", Simmons, E.D.: Department of Orthopaedic Surgery Teaching Conference, State University of New York at Buffalo, August 30, 1990.
18. "Surgical Reconstruction of the Arthritic Elbow", Department of Orthopaedic Surgery, University of Louisville, Louisville, Kentucky, October 5, 1990.
19. "Current Concepts in the Management and Treatment of Spine Fractures", Grand Surgical Rounds, Department of Surgery, University of Louisville, Louisville, Kentucky, October 6, 1990.
20. "Analysis of Postoperative Blood Collection and Re-Transfusion in Spine and Joint Replacement Surgery", Haley, T., Simmons, E.D., and Quitishat, S: Orthopaedic Research Day, Department of Orthopaedic Surgery, State University of New York at Buffalo, October 13, 1990.
21. "Results of Surgery in Adult Scoliosis", Kowalski, J., Simmons, E.D.: Orthopaedic Research Day, Department of Orthopaedic Surgery, SUNY at Buffalo, October 13, 1990.
22. "Texas Scottish Rite Instrumentation for Spinal Deformity", Simmons, E.D.: 41st Annual Frank N. Potts Orthopaedic Day, The Western New York Orthopaedic Society, Buffalo, New York, November 2, 1990.
23. "Klippel-Feil Syndrome With Neurologic Involvement", Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, January 19, 1991.

24. "Adult Spinal Deformity", Simmons, E.D.: Orthopaedic Conference, Department of Orthopaedic Surgery, State University of New York at Buffalo, March 28, 1991.
25. "Total Knee Replacement-Design Rationale", Simmons, E.D.: Orthopaedic Conference, Department of Orthopaedic Surgery, State University of New York at Buffalo, May, 2, 1991.
26. "L4-5 Discectomy - A Benign Procedure?", Delahunt, S.P., Simmons, E.D., and Simmons, E.H.: Combined University Spine Conference, State University of New York at Buffalo, May 18, 1991.
27. "Treatment of the Arthritic Elbow", Simmons, E.D.: Orthopaedic Conference, Department of Orthopaedic Surgery, State University of New York at Buffalo, September 12, 1991.
28. "Spinal Stenosis and Scoliosis", Simmons, E.D., Simmons, E.H.: Combined University Spine Conference, State University of New York at Buffalo, September 21, 1991.
29. "Anterior Surgical Approaches to the Lumbar Spine", Sullivan, D.J., and Simmons, E.D.: University Spine Conference, State University of New York at Buffalo, September 21, 1991.
30. "Bio-Electricity in Spinal Fusion", Shin, L., and Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, September 21, 1991.
31. "Development of a Computerized Orthopaedic Registry", Simmons, E.D.: 42nd Annual Frank N. Potts Orthopaedic Day, Western New York Orthopaedic Society, Buffalo, New York, November 2, 1991.
32. "Laminoplasty for Cervical Spine Stenosis", Roth, H., and Simmons, E.D.: State University of New York at Buffalo, Combined University Spine Rounds, November 16, 1991.
33. "Osteoblastoma of the Spine", Sullivan, D.J., Capicotto, W.N., Simmons, E.D., Mindell, E.R.: Combined University Spine Conference, State University of New York at Buffalo, January 18, 1992.
34. "Pedicule Screw-Rod Fixation in Spinal Fusion", Shin, L., Simmons, E.D., and Simmons, E.H.: Combined University Spine Conference, State University of New York at Buffalo, January 18, 1992.
35. "Total Joint Replacement - An Overview", Simmons, E.D.: Presentation to D'Youville College Physiotherapy and Occupational Therapy School, Buffalo, NY, February 27, 1992.

36. "Orthopaedic Aspects of Metabolic Bone Disease", Simmons, E.D.: Orthopaedic Conference, Department of Orthopaedic Surgery, State University of New York at Buffalo, March 12, 1992.
37. "Anterior Spinal Plate Fixation of the Thoracolumbar Spine", Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, March 21, 1992.
38. "Pedicle Screw-Rod Fixation in Posterolateral Spinal Fusion: A Long-Term Assessment", Shin, L., Simmons, E.D., Simmons, E.H.: 21st Annual Orthopaedic Residents Scientific Program, Department of Orthopaedic Surgery, School of Medicine & Biomedical Sciences, State University of New York at Buffalo, June 4-5, 1992.
39. "Pedicle Screw Rod Fixation in Posterolateral Fusion: A Long-Term Assessment", Shin, L., Hruska, J., Simmons, E.D., Simmons, E.H.: 41st Annual Frank N. Potts Day, Western New York Orthopaedic Society, November 7, 1992.
40. "The Differential Diagnosis of Neck, Shoulder, and Arm Pain", Shobe, J.C., Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, November 21, 1992.
41. "Lumbar Flatback Deformity", Markowitz, H.D., Simmons, E.H., Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, December 19, 1992.
42. "Assessment and Management of Thoracolumbar Burst Fractures", O'Donnell, J.L., Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, December 19, 1992.
43. "Overview of Total Joint Replacements", Simmons, E.D.: Presented to the D'Youville College Physical Therapy Department, Buffalo, New York, April 3, 1993.
44. "Efficacy of MRI vs. Discography in the Evaluation of Cervical Disc Disease" Markowitz, H.D., Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, April 17, 1993.
45. "Comparative Biomechanical Studies of Posterior Cervical Fusion", Simmons, E.D., Haley, T., Burke, T., Medige, J.: Combined University Spine Conference, State University of New York at Buffalo, April 17, 1993.

46. "The Effect of Crushed Cancellous Allograft Augmentation of Autogenous Bone Graft For Instrumented Postero-Lateral Lumbar Fusions", O'Donnell, J.L., Simmons, E.H., Simmons, E. D., Blab, M. W.: Combined University Spine Conference, State University of New York at Buffalo, April 17, 1993.
47. "Post-Laminectomy Kyphosis of the Cervical Spine", Capicotto, P.N., Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, May 15, 1993.
48. "Luque Segmental Instrumentation of the Cervico-thoracic Spine: Indications and Results, Capicotto, P.N., Simmons, E.H., Simmons, E.D.: 22nd Annual Orthopaedic Residents Scientific Program, State University of New York at Buffalo, June 4, 1993.
49. "Extra-foraminal L5 Nerve Root Entrapment", Markowitz, H.D., Simmons, E.H., Simmons, E.D.: 22nd Annual Orthopaedic Residents Scientific Program, State University of New York at Buffalo, June 4, 1993.
50. "Effect of Crushed Cancellous Allograft Augmentation of Autogenous Bone Graft for Instrumented Posterolateral Lumbar Fusions", O'Donnell, J.L., Simmons, E.H., Simmons, E.D.: 22nd Annual Orthopaedic Residents Scientific Program, State University of New York at Buffalo, June 4, 1993.
51. "Biological Factors Affecting Success in Spine Fusion", Hamill, C.L.: Simmons, E.H., Simmons, E.D.: 22nd Annual Orthopaedic Residents Scientific Program, State University of New York at Buffalo, June 4, 1993.
52. "Anterior Cervical Spinal Fusion: Indication and Results of One Surgeons Experience with the Keystone Technique", Blab, M.W., Simmons, E.D.: 22nd Annual Orthopaedic Residents Scientific Program, State University of New York at Buffalo, June 4, 1993.
53. "Long Term Results of Capitellocondylar Total Elbow Replacements", Simmons, E.D.: 35th Annual Meeting, The Dewar Orthopaedic Society Meeting, Toronto, Ontario, Canada, September 11, 1993.
54. "Metastatic Disease of the Spine", Boone, R.T., Simmons, E.H., Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, September 18, 1993.
55. "Classification and Management of Spondylolisthesis", Warner, S.J., Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, September 18, 1993.

56. "Recurrent Lumbar Disc Herniation", O'Donnell, J.L., Guntupalli, M., Capicotto, P.N., Simmons, E.H., Simmons, E.D.: 42nd Annual Frank N. Potts Day, Western New York Orthopaedic Society, Buffalo, New York, November 6, 1993.
57. "Indications and Techniques for Direct Repair of Lumbar Spondylolytic Defects", Markowitz, H.D., Simmons, E.D.: 42nd Annual Frank N. Potts Day, Western New York Orthopaedic Society, Buffalo, New York, November 6, 1993.
58. "Whiplash Injuries: Etiology, Clinical Manifestations and Management", Boone, R.T., Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, December 18, 1993.
59. "Non-Operative Management of Adolescent Idiopathic Scoliosis", Dalenberg, D., Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, February 19, 1994.
60. "Indications for Fusion in Lumbar Spinal Stenosis", Boone, R.T., Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, March 19, 1994.
61. "Osteoporosis: Methods for Treatment and Prevention", Simmons, E.D.: Presented to the Conference on Medical Education, Sister's of Charity Hospital of Buffalo, Buffalo, New York, March 21, 1994.
62. "Total Joint Replacement", Simmons, E.D.: Presented to D'Youville College Physical Therapy and Occupational Therapy Students, Buffalo, New York, March 23, 1994.
63. "An Outcome Study of 1st Time 1 & 2 Level Lumbar Spine Fusions", Dalenberg, D., Simmons, E.D.: Presented to the 23rd Annual Orthopaedic Residents Scientific Program, Buffalo General Hospital, Buffalo, New York, May 20, 1994.
64. "Surgical Management of Lumbar Pseudarthrosis", Boone, R.T., Simmons, E.D.: Presented to the 23rd Annual Orthopaedic Residents Scientific Program, Buffalo General Hospital, Buffalo, New York, May 20, 1994.
65. "Comparison of Surgical Techniques for the Treatment of Spondylolisthesis", Warner, S.J., Simmons, E.D.: Presented to the 23rd Annual Orthopaedic Residents Scientific Program, Buffalo General Hospital, Buffalo, New York, May 20, 1994.

66. "Brown's Procedure for Congenital Absence of the Tibia Revisited", Ginsburg, G., Simmons, E.D.: Presented to the 23rd Annual Orthopaedic Residents Scientific Program, Buffalo General Hospital, Buffalo, New York, May 20, 1994.
67. "Long-Term Results of a Lumbar Spinal Fusion with TSRH" Instrumentation", Thomas S., Simmons, E.D.: Presented to the 23rd Annual Orthopaedic Residents Scientific Program, Buffalo General Hospital, Buffalo, New York, May 20, 1994.
68. "Total Elbow Replacement", Simmons, E.D.: State University of New York at Buffalo, University Orthopaedic Conference, Buffalo General Hospital, Buffalo, New York, June 2, 1994.
69. "Assessment of Lower Limb Distress in the Elderly", Craven, T.G., Simmons, E.H., Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, September 17, 1994.
70. "Lumbar Disc Herniation", DiStefano, R.J., Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, October 15, 1994.
71. "Cauda Equina Syndrome", DiStefano, R.J., Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, October 15, 1994.
72. "Degenerative Scoliosis Associated with Spinal Stenosis", Craven, T.G., Simmons, E.D., Simmons, E.H.: Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, December 17, 1994.
73. "Familial Pre-Disposition for Degenerative Disc Disease: A Cohort Study", Guntupalli, M., Kowalski, J.M., Braun, F., Seidel, T., Simmons, E.D., Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, December 17, 1994.
74. "Differential Diagnosis of Sciatic Pain", Craven, T.G., Simmons, E.D., Markowitz, H.D., Simmons, E.H.: Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, January 21, 1995.
75. "Post Traumatic Kyphosis of the Thoracolumbar Spine", Laxer, E.B., Simmons, E.H., Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, February 25, 1995.

76. "Anterior Reconstruction of the Thoracic Spine for Malignant Disease", Craven, T.G., Simmons, E.D.: Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, February 25, 1995.
77. "MRI Myelography - Its Place in Spinal Surgery", Craven, T., Simmons, E.H., Markowitz, H.D., Simmons, E.D.: Presented to the 24th Annual Orthopaedic Residents Scientific Program, Department of Orthopaedic Surgery, School of Medicine and Biomedical Sciences, State University of New York at Buffalo, Buffalo General Hospital, Buffalo, New York, June 2, 1995.
78. "Chondrosarcoma of the Spine", Smith, M.L., Simmons, E.D., McGrath, B.E., Mindell, E.R., Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, October 28, 1995.
79. "Paget's Disease of the Spine - Diagnosis and Treatment", Leone, A.M., Simmons, E.D., Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, October 28, 1995.
80. "Familial Predisposition to Degenerative Disc Disease", Simmons, E.D.: Presented to the 46th Annual Dr. Frank N. Potts Orthopaedic Day, The Buffalo Club, Buffalo, New York, November 4, 1995.
81. "Spondylolisthesis - Classification and Management", Leone, A.M., Simmons, E.D., Combined University Spine Rounds, State University of New York at Buffalo, Buffalo, New York, December 16, 1995.
82. "MRI Myelography: "Its Place in Spinal Surgery", Craven, T.G., Simmons, E.H., Markowitz, H.D., Simmons, E.D., Combined University Spine Rounds, State University of New York at Buffalo, Buffalo, New York, December 16, 1995.
83. "Osteopenic Bone Disease of the Spine", Smith, M.L., Simmons, E.D., Combined University Spine Rounds, State University of New York at Buffalo, Buffalo, New York, December 16, 1995.
84. "Cervical Spondylotic Myelopathy - Diagnosis and Management", Smith, M.L., Hamill, H. D., Simmons, E.D., Combined University Spine Rounds, State University of New York at Buffalo, Buffalo, New York, January 20, 1996.
85. "Cervical Laminoplasty: Indications, Technique and Results", Leone, A.M., Simmons, E.H., Simmons, E.D., Markowitz, H.D., Combined University Spine Rounds, State University of New York at Buffalo, Buffalo, New York, January 20, 1996.

- 86.. "Primary Neoplasms of the Spine", Hruska, J.S., Simmons, E.H., Simmons, E.D., Mindell, 6.R., Combined University Spine Rounds, State University of New York at Buffalo, Buffalo, New York, January 20, 1996.
87. "Atlantoaxial (C1-C2) Instability - Evaluation and Treatment", Leone, A.M., O'Donnell, J.L., Simmons, E.D., Smith, M.L., Simmons, E.H., Combined University Spine Rounds, State University of New York at Buffalo, Buffalo, New York, February 17, 1996.
88. "Fractures of the Second Cervical Vertebra (C2) - Diagnosis and Treatment", Hruska, J.S., Simmons, E.E., Lifeso, R.M., Combined University Spine Rounds, State University of New York at Buffalo, Buffalo, New York, February 17, 1996.
89. "Intradural Spine Tumors", Smith, M.L., Markowitz, H.D., Simmons, E.D., Combined University Spine Rounds, State University of New York at Buffalo, Buffalo, New York, February 17, 1996.
90. "Spinal Stenosis Associated with Scoliosis", Simmons, E.D., Simmons, E.H., Combined University Spine Rounds, State University of New York at Buffalo, Buffalo, New York, February 17, 1996.
91. "The Development and Use of Non-Invasive MRI Myelography at the University of Buffalo", Craven, T.G., Simmons, E.H., Markowitz, H.D., Simmons, E.D., Combined University Spine Rounds, State University of New York at Buffalo, Buffalo, New York, February 17, 1996.
92. "Intervertebral Osteomyelitis and Discitis", Hruska, J.S., Simmons, E.D., Combined University Spine Rounds, State University of New York at Buffalo, Buffalo, New York, March 16, 1996.
93. "Burst Fractures of the Spine: Evaluation and Treatment", Leone, A.M., Simmons, E.D., Combined University Spine Rounds, State University of New York at Buffalo, Buffalo, New York, March 16, 1996.
94. "Spinal Deformity Associated with Cerebral Palsy - Management", Smith, M.L., Simmons, E.H., Simmons, E.D., Markowitz, H.D., Hamill, C.L., Combined University Spine Rounds, State University of New York at Buffalo, Buffalo, New York, April 20, 1996.
95. "Fusion to the Sacrum for Correction of Spinal Deformity: Indications and Operation Techniques", Leone, A.M., Simmons, E.H., Simmons, E.D., Combined University Spine Rounds, State University of New York at Buffalo, Buffalo, New York, April 20, 1996.

96. "A Review of the Causes for Re-operation for Degenerative Disease of the Cervical Spine", Hruska, J.S., Simmons, E.D., Presented to the 25th Annual Orthopaedic Residents Scientific Program, Department of Orthopaedic Surgery, School of Medicine and Biomedical Sciences, State University of New York at Buffalo, Buffalo General Hospital, Buffalo, New York, June 7, 1995.
97. "A Patient Based Clinical Outcome of Cervical Laminoplasty with Minimum Two Year Follow-up", Leone, A.M., Simmons, E.D., Simmons, E.H., Markowitz, H.D., Presented to the 25th Annual Orthopaedic Residents Scientific Program, Department of Orthopaedic Surgery, School of Medicine and Biomedical Sciences, State University of New York at Buffalo, Buffalo General Hospital, Buffalo, New York, June 7, 1995.
98. "Far-Out Lateral (Extra Foraminal) Lumbar Disc Herniation", Presented to the Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, September 14, 1996.
99. "A Prospective Comparison of Instrumented and Non-Instrumented Lumbar Spinal Fusions", Presented to the Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, September 14, 1996.
100. "Differential Diagnosis of Lumbosacral, Sacrococcygeal and Sacroiliac Pain", Lorio, M.P., Simmons, E.H., Simmons, E.D., Presented to the Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, October 19, 1996.
101. "Lumbar Spinal Stenosis", Liew, S.M., Simmons, E.D., Markowitz, H.D., Presented to the Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, October 19, 1996.
102. "Total Elbow Replacement with Capitellar Condylar Prosthesis", Simmons, E.D., 47th Annual Dr. Frank N. Potts Orthopaedic Day, Western New York Orthopaedic Society, University of Buffalo, Buffalo, New York, November 2, 1996.
103. "Spinal Surgery and Post-Op Management", Simmons, E.D., Presented at Current Trends in Rehabilitation Medicine, State University of New York at Buffalo, Buffalo, New York, November 16, 1996.
104. "Differential Diagnosis of Lumbosacral, Sacrococcygeal and Sacroiliac Pain", Lorio, M.P., Simmons, E.H., Simmons, E.D., Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, November 23, 1996.

105. "Lumbar Spinal Stenosis", Liew, S.M., Simmons, E.D., Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, November 23, 1996.
106. "Highlights of the 11th Annual Conference of the North American Spine Society, Vancouver, British Columbia", Simmons, E.D., Simmons, E.H., Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, November 23, 1996.
107. "The Surgical Anatomy of the Upper Cervical Spine", Liew, S.M., Simmons, E.D., Haar, M.S., Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, December 21, 1996.
108. "Spondylolisthesis - Classification, Clinical Features and Management", Liew, S.M., Simmons, E.D., Simmons, E.H., Combined University Spine Conference, State University of New York at Buffalo, Buffalo, New York, February 22, 1997.
109. "The Development of MRI Myelography", Lorio, M., Simmons, E.H., Rand, L.G., Simmons, E.D., Presented to Orthopaedic Residents Graduation, Albright-Knox Art Gallery, Buffalo, New York, June 6, 1997.
110. "Total Elbow Replacement", E.D. Simmons, Buffalo General Hospital Grand Rounds, Buffalo, New York, July 15, 1998.
111. "Long Term Review of Anterior Cervical Discectomy With Keystone Fusion Technique", E.D. Simmons, S. M. Liew, Y. Zheng, J. Wade, 49th Annual Dr. Frank N. Potts Day, Western New York Orthopaedic Society, State University of New York at Buffalo, Buffalo, New York, November 21, 1998.
112. "Discogenic Back Pain and Spinal Stenosis", E.D. Simmons, presented to the Daemen College Physical Therapy Department, Current Concepts in the Clinical Management of Spine Pathology, Buffalo, New York, November 20, 1999.
113. "Evaluation of Metabolic Bone Disease as a Risk Factor for Lumbar Fusion" E.D. Simmons, J. Kuhele, J. Lee, L. Lee, M. Grynypas, 52nd Annual Dr. Frank N. Potts Day, Western New York Orthopaedic Society, State University of New York at Buffalo, Buffalo, New York, November 17, 2001.
114. "Thorascopic Discectomy and Fusion for Thoracic Disc Herniation", Simmons E.D., Zheng, Y., 53rd Annual Dr. Frank N. Potts Day, Western New York Orthopaedic Society, State University of New York at Buffalo, Buffalo, New York, November 22, 2002.

115. Presentations to Daemen College Physical Therapy Department, Buffalo, NY 2005 and 2006.
116. Instructed and Lectured “Ankylosing Spondylitis” Simmons, E.D. at New Technologies, Old Complications: The Surgical Treatment of Spinal Disorders, Niagara-on-the-Lake, Ontario, Canada, October 26-28, 2006.
117. “Incidence and Characterization of Bone Graft Donor Site Pain in Patients Undergoing Lumbar Fusion” O’Hear, K., Simmons, E.D., Poster Presentation to the Medical Student Research Forum, State University of New York at Buffalo, Buffalo, New York , January 27, 2011.
118. “Comparison of Trabecular Metal Spacers versus Allograft in ACDF”, Barba, Daniel, Simmons, E.D.: Presentation at 5th Annual Eugene R. Mindell, M.D. Orthopaedic Residency Scientific Program, Department of Orthopaedic Surgery, State University of New York at Buffalo, Buffalo, New York June 3, 2011.

VISITING PROFESSORSHIPS AND LECTURESHIPS

1. Visiting Speaker, Department of Orthopaedic Surgery, University of Washington, December 6-9, 1989.
2. Guest Lecturer, Department of Orthopaedic Surgery and Leatherman Spine Center, University of Louisville, Louisville, Kentucky; October 4-6, 1990.
3. Visiting Speaker, Department of Orthopaedic Surgery, McGill University, Montreal, Quebec, October 27, 1991.

ACADEMIC COURSES AND OTHER ACTIVITIES

1. Instructor, AO/ASIF Course for Operating Room Personnel, Sunnybrook Medical Centre, Toronto, Ontario, June 19-20, 1987.
2. Lecturer, Canadian Back Institute, Toronto, Ontario, July 1987 - July 1988.
3. Instructor, The Tenth Toronto AO/ASIF Course for Surgeons, The Inn on the Park, Toronto, Ontario, February 25-28, 1988.
4. Medical Supervisor, Ultra CAN AM Challenge, Champion Offshore Boat Racing Association, Buffalo, New York, September 9-10, 1989.
5. Presentation on Total Knee Replacement, for the Arthritis Foundation, "Arthritis Informatel". Television Special, Buffalo, New York, November 28, 1989.
6. Instructor, the Eleventh Toronto AO/ASIF Course for Surgeons, The Harbour Castle, Westin, Toronto, Canada, March 1-4, 1990.
7. Principal Investigator, A.O. Spinal Internal Fixateur Trial (F.D.A.), Buffalo, New York, 1990-1992.
8. Associate Editors' Workshop, The Journal of Bone and Joint Surgery, Boston, MA, April 3, 1991.
9. Moderator, "H.A.: Its Science, Technology and Clinical Application", Video Satellite Conference, Buffalo, NY, June 15, 1991.
10. Development of Computerized Orthopaedic Registry, Buffalo General Hospital, 1989-1991.
11. Development of Use of Motor Evoked Potentials for Spinal Cord Monitoring, Buffalo General Hospital, 1991.
12. Moderator, "Interface Options", Video Satellite Conference, Buffalo, NY, January 22, 1992.
13. Course Chairman, "Current Methodology of Spinal Instrumentation; Degenerative and Deformity Applications" (The Spinal Science Advancement Foundation), New York, NY, October 2-3, 1992.

14. "The Dewar Cervical Spine Fusion Technique", Instructional tape made for North American Spine Society, September 1992.
15. Panelist "Consensus and Controversies in Management of Soft Tissue Musculoskeletal Disorders", Center for Occupational Rehabilitation, Cheektowaga, New York, November 10, 1992.
16. "Management of Spinal Stenosis with Scoliosis", Cassette Tape Prepared for Orthopaedic Audio-Synopsis Foundation, Volume 25-11, February 1993.
17. Course Chairman - EBI Medical Systems, Inc., "Spine Surgeon's Special Forum", Parsippany, New Jersey, March 12, 1993.
18. Guest Faculty, "Controversies in Spine Surgery, Third Annual Symposium", Sponsored by the Section of Spine Surgery, Department of Orthopaedic Surgery, William Beaumont Hospital, Royal Oak, Michigan, July 16, 1993.
19. Investigator, Kluger Spinal System FDA Trial, June 1993 to June 1994.
20. Chief Medical Officer, Soccer, World University Games, Buffalo, New York, July 7-18, 1993.
21. Orthopaedic Surgeon, Buffalo Sabres Hockey Club, National Hockey League, 1993 - 1994.
22. Guest Faculty, "1st Annual Spine Symposium", Department of Medical Education, The Methodists Hospitals, Inc., Merrillville, Indiana, November 13, 1993.
23. Course Moderator - "Controversies in Orthopaedics HA Fact vs. Fiction" Video Satellite Conference, Buffalo General Hospital, Buffalo, New York, January 20, 1994.
24. Distinguished Faculty - "Third Annual Symposium and Call for Papers: Critical Decisions in Spinal Surgery", Spinal Science Advancement Foundation, New York, New York, December 9-10, 1994.
25. Instructor - Pedicle Screws: Update and Current Techniques, Orthopaedic Learning Center, Minneapolis, Minnesota, June 3, 1995.
26. Moderator - 10th Annual Meeting of the North American Spine Society, Surgery/Pain Management, Complications/Trauma, Fracture, Washington, D. C., October 18-21, 1995.

27. Teaching Faculty - Spine Instructional Course, Management of Low Back Pain - "The Current State-of-the-Art", Departments of Orthopaedic Surgery and Rheumatology and Immunology, National University of Singapore, in collaboration with International Society for the Study of the Lumbar Spine, Singapore, June 6-8, 1997.
28. Host and Local Arrangements Chairman - 39th Annual Meeting of the Dewar Orthopaedic Society, Buffalo, New York and Niagara-On-The-Lake, Ontario, August 23-27, 1997.
29. Teaching Faculty - Spine Fellows Program "Spine+Science+Management = Success", New Orleans, Louisiana, November 14-15, 1997.
30. Course Contributor - "Spondyloarthropathies", Lecture presentation prepared for the North American Spine Society Core Curriculum, February 20, 1998.
31. Co-Investigator, Synthes SynCage System FDA Trial, July 1998 – 2003.
32. Moderator – 112th Annual Meeting of the American Orthopaedic Association, Scientific Poster Exhibit Discussions, Sun Valley Idaho, June 6, 1999.
33. Principle Investigator, Spinal Concepts InFix IDE Clinical Investigation, FDA trial, April 2000-Present.
34. Moderator, 67th Annual Meeting of the American Academy of Orthopaedic Surgeons, Cervical Spine Program, papers 293-300, Orlando, Florida, March 15-19, 2000.
35. Investigator, Medtronic Sofamor Danek Bone Morphogenic Protein Study, 2000-2002
36. Moderator, 69th Annual Meeting of the American Academy of Orthopaedic Surgeons, "Spine 3" Session. Dallas, Texas, February 13-17, 2002.
37. Teaching Faculty – 15th Annual Contemporary Update On Disorders of the Spine, Whistler, British Columbia, January 18-24, 2003.
38. Investigator, Spine Core Flexicore Artificial Disc System FDA Trial, May 2003 - present
39. Investigator: InFix Interbody Fusion System IDE/FDA study, September 2003 – present
40. Moderator, 71st Annual Meeting of the American Academy of Orthopaedic Surgeons, Spine Session. San Francisco, California, March 10-14, 2004.

41. Moderator, 72nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Spine Session. Washington, DC, February 25, 2005.
42. Participant – CHARITĚ Artificial Disc Program, Cincinnati, OH, January 12, 2005.
43. Investigator: Mobi-C cervical disc replacement FDA-IDE multi-center trial, July 2007 – present
44. Local Host, Lamplighters Orthopaedic Society, 51st Annual Meeting, Buffalo, NY June 12-14, 2008
45. Visiting speaker: “TLIF: Open Versus Minimally Invasive”, Niagara-on-the-Lake, Ontario, Canada, September 20, 2008
46. Visiting speaker: “One Level Lumbar Fusion Versus One Level Lumbar Disk Replacement” Niagara-on-the-Lake, Ontario, Canada, September 20, 2008
47. Visiting speaker: “Current Status of Spine Surgery”, Olean General Hospital, Olean, NY September 23, 2008

SUPERVISION OF MEDICAL STUDENT RESEARCH

1. Joseph Kowalski - July and August 1991. Research carried out on results of surgery for adult scoliosis. Presentations made at the Scoliosis Research Society, North American Spine Society, and American Academy of Orthopaedic Surgery. Publication of research in SPINE journal titled "The Results of Surgical Treatment for Adult Scoliosis", May 1993.
2. Joseph Kowalski - July and August 1992 with regards to results in Intervertebral Disc Excision without Fusion at L4-5 vs. L5-S1. Research results presented at North American Spine Society July 1992, the International Society for the Study of the Lumbar Spine, May 1992. Currently submitted for publication to the Journal of Bone and Joint Surgery.
3. Research Supervision of Timothy Haley regarding Biomechanical Studies of Rogers and Dewar Cervical Spine Fixation Techniques. Research presented at the American Academy of Orthopaedic Surgery under the title "Biomechanical Comparison of the Rogers and Dewar Cervical Spine Fixation Techniques", February 1993. Also presented at the Federation of Spine Associations - February 1993, Scoliosis Research Society - September 1992, European Spinal Deformities Society, Lyon, France - June 1992.
4. Research Supervision of Thomas Burke with regards to Biomechanical Studies of Rogers and Dewar Cervical Spine Fusion Techniques.
5. Research supervision of Ken Meckelberg in conjunction with Joseph Natiello, M.D., Ph.D. with regards to his Master of Science degree on Histomorphometric Techniques of Bone Analysis. 1991-1992
6. Madhuri Guntupalli - Project carried out with respect to Hereditary Factors in Degenerative Disc Disease. Presented at the International Society for the Study of the Lumbar Spine, June 1994.
7. Felix Braun - Project carried out with respect to Hereditary Factors in Degenerative Disc Disease. Presented at the International Society for the Study of the Lumbar Spine, June 1994.
8. Joern Kuehle - Project carried out with respect to Hereditary Factors in Degenerative Disc Disease. Presented at the International Society for the Study of the Lumbar Spine, June 1994.

9. Thomas Seidel - Project carried out with respect to Hereditary Factors in Degenerative Disc Disease. Presented at the International Society for the Study of the Lumbar Spine, June 1994.
10. Christoph Sukopp - Project carried out with respect to Hereditary Factors in Degenerative Disc Disease. Presented at the International Society for the Study of the Lumbar Spine, June 1994.
11. Constanze Borner – Supervised summer elective in Orthopaedic surgery – July 1995
12. Jeffrey Wade - Supervised summer research project on Long Term Results of Anterior Cervical Discectomy with Keystone Fusion - July/August 1996.
13. Arnd Honig - Supervised summer elective in Orthopaedic surgery – July/August 1997
14. Nina Haase - Supervised summer elective in Orthopaedic surgery – July/August 1997
15. Jacob Dietmar - Supervised summer elective in Orthopaedic surgery – July/August 1997
16. Sven Ostermeier - Supervised summer elective in Orthopaedic surgery – August 1998
17. Jill Golebiewski – Supervised Physician Assistant Preceptor program - July/August 1998
17. Andrej Nowakowski - Supervised summer elective in Orthopaedic surgery – August/September 2000
18. Becky Sheehan - Supervised elective in Orthopaedic surgery – March/May 2005
19. Susan Jacobs – Supervised rotation in Orthopaedic surgery – May/June 2005
20. Godwin Okjie - Supervised rotation in Orthopaedic surgery – June/July 2005
21. Kelly O’Hear – Supervised Summer Research Project – July/August 2010
22. Sarah DiPalma – Supervised Student Research Project – January/February 2011
23. Daniel Barba, MD – Supervised Research for Presentation - April/May 2011

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