

# **Walter Warren Virkus, M.D.**

## **Office Address**

Midwest Orthopaedics at Rush  
1725 W. Harrison  
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Chicago, IL 60612  
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## **Education**

- 1985 – 1989 B.S., Muhlenberg College  
Allentown, PA  
Cum Laude Graduate, Sigma Phi Epsilon Fraternity
- 1989 – 1993 M.D., UMDNJ - New Jersey Medical School  
Newark, NJ  
AOA Honor Society, 4 yr. Scholars Scholarship, NJMS Rugby

## **Professional Training**

- 1993 – 1994 Internship - Mount Sinai Medical Center, New York, NY, General Surgery
- 1994 – 1998 Residency - University of Maryland Medical System, Orthopaedic Surgery  
Administrative Chief Resident, 1997-1998
- 8/98 – 1/99 Fellowship – Orthopaedic Trauma, R Adams Cowley Shock Trauma Center, Baltimore, MD, Director- Clifford Turen, MD
- 2/99 – 7/99 Fellowship - Orthopaedic Trauma, Hospital for Special Surgery, New York, NY, Director- David L. Helfet, MD
- 8/99 – 7/00 Fellowship - Orthopaedic Oncology, University of Florida, Gainesville, FL, Director- Mark T. Scarborough, MD

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### **Certification**

9/2002 Board Certified, American Board of Orthopedic Surgery  
2002 Diplomate, American Board of Orthopaedic Surgery  
American Board of Orthopaedic Surgery – Part 1 – 7/98 – 97th Percentile – Pass  
American Board of Orthopaedic Surgery – Part 2 – 7/02 - Pass  
Faculty, AO North America  
6/1991 NBME Part I - 215 (Pass)  
3/1993 NBME Part II - 227 (Pass)  
3/1994 NBME Part III - 550 (Pass)  
1999 – 2000 NASA Space Shuttle Medical Support Staff

### **Licensure**

Maryland – D0053486 Exp. 9/99  
New York – 211324 Exp. 6/00  
Illinois – 036-102954  
Medicare UPIN # - H22295  
DEA – BV5984895

### **Clinical Appointments**

2/07 - Present Associate Attending (Orthopedic Surgery), Rush University Medical Center  
1/04 – 2/07 Assistant Attending (Orthopedic Surgery), Rush University Medical Center  
9/00 – Present Senior Attending- Surgery (Orthopedics), Cook County Hospital, Chicago, IL  
9/00 – 12/03 Adjunct Attending (Orthopedic Surgery), Rush-Presbyterian-St. Luke's Medical Center, Chicago, IL  
2/99 – 7/99 Junior Attending in Orthopaedic Surgery, The Hospital for Special Surgery, New York, NY  
2/99 – 7/99 Surgeon (Orthopaedics), New York Hospital-Cornell Medical Center, New York, NY

### **Academic Appointments**

9/07- Present Associate Professor, Orthopaedic Surgery, Rush University Medical Center, Chicago, IL  
9/00 – 9/07 Assistant Professor, Orthopaedic Surgery, Rush University Medical Center, Chicago, IL  
2/99 – 7/99 Senior Clinical Associate in Orthopaedic Surgery, Cornell University Medical College, New York, NY

### **Professional Memberships**

Faculty, AO North America  
Fellow, American Academy of Orthopedic Surgeons  
Member, Musculoskeletal Tumor Society  
Member, Orthopaedic Trauma Association

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**Professional Activities and Committees**

- 3/14/09 Course Chairman, Advanced Nailing and MIPO Course, Mahwah, NJ
- 2/27/09 Moderator, Nonunion Instructional Course Lecture, AAOS, Las Vegas, NV
- 2/7/09 Course Chairman, 7<sup>th</sup> Annual Illinois Resident Trauma Symposium, Chicago, IL
- 2/09-Present Residency Director, Rush University Medical Center
- 1/09-Present Orthopedic Trauma Association Research Committee
- 11/08 AAOS Educators Course- participant
- 8/7/08 Course Chairman, Advanced Trauma Symposium for Residents, Chicago, IL
- 6/08 Golden Apple Teaching Award, Department of Orthopaedic Surgery, Rush University Medical Center, Chicago, IL
- 4/24/08 Course Co-Chairman, AO North America ORP course, Schamberg, IL
- 3/1/08 Course chairman, 6<sup>th</sup> Annual Illinois Resident Trauma Symposium, Chicago, IL
- 2/08-2/09 Associate Residency Director, Rush University Medical Center, Chicago, IL
- 3/10/07 Course chairman, 5<sup>th</sup> Annual Illinois Resident Trauma Symposium, Chicago, IL
- 2/25/06 Course chairman, 4<sup>th</sup> Annual Illinois Resident Trauma Symposium, Chicago, IL
- 4/09/05 Course chairman, 3<sup>rd</sup> Annual Illinois Resident Trauma Symposium, Chicago, IL
- 1/05-Present Consultant Reviewer – Clinical Orthopedics and Related Research
- 6/04-Present Director of Resident Evaluation and Promotion, Department of Orthopaedic Surgery, Rush University Medical Center, Chicago, IL
- 6/04-Present Consultant Reviewer – Journal of Bone and Joint Surgery
- 3/20/04 Course Chairman, 2<sup>nd</sup> Annual Illinois Resident Trauma Symposium, Chicago, IL
- 2/04-Present Evaluation Subcommittee, Musculoskeletal Tumors and Diseases, AAOS
- 2003–Present Operating and Invasive Procedure Review Committee, Rush University Medical Center
- 3/29/03 Course Chairman, Illinois Resident Trauma Symposium, Chicago, IL
- 1/02- Present Residency Steering Committee, Department of Orthopaedic Surgery, Rush University Medical Center

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- 1/02-Present Resident Selection Committee, Department of Orthopaedic Surgery, Rush University Medical Center
- 2/02–2/08 Director, Medical Student Education, Department of Orthopaedic Surgery, Rush University Medical Center
- 12/02–Present Consultant Reviewer- Journal of the American Academy of Orthopaedic Surgery

## **Grant Support**

- 1/09 A. Viridi, W. Virkus. Orthopedic Trauma Association Research Grant- \$129,709
- 1/09 W. Virkus, 7<sup>th</sup> Illinois Resident Trauma Symposium- \$26,150
- 3/08 W. Virkus. 6<sup>th</sup> Illinois Resident Trauma Symposium- \$21,000
- 4/07 W. Virkus. 5<sup>th</sup> Illinois Resident Trauma Symposium - \$25,000
- 2/06 W. Virkus. 4<sup>th</sup> Illinois Resident Trauma Symposium - \$31,000
- 4/05 W. Virkus. 3<sup>rd</sup> Illinois Resident Trauma Symposium. - \$25,000
- 7/02 W. Virkus, MD, S. Goldberg, MD. “Biomechanical Comparison of Compression Force Across a Transverse Humeral Fracture”. Stryker Orthopaedics, \$18,000

## **Invited Lectures/Teaching Activities**

“Geriatric Hip Fractures-An Evidenced-Based Approach”, Cedars-Sinai Trauma Symposium, Los Angeles, CA, May 2009

“Medical Management and Surgical Timing of Geriatric Hip Fractures”, Cedars-Sinai Trauma Symposium, Los Angeles, CA, May 2009

“Operative Treatment of Distal Humerus Fractures- How and when?”, Cedars-Sinai Trauma Symposium, Los Angeles, CA, May 2009

“Surgical Approaches to the Tibia”, Presented at Comprehensive Fracture Course for Residents, Chicago, IL, March, 2009.

“Coverage Options Below the Knee”, Presented at Comprehensive Fracture Course for Residents, Chicago, IL, March, 2009.

Amputation: Who? When? How?, Presented at Comprehensive Fracture Course for Residents, Chicago, IL, March, 2009.

“Distal Humerus Fractures”, Presented at the 7<sup>th</sup> Annual Illinois Resident Trauma Course, Chicago, IL February, 2009.

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“Approaches to the Humeral Shaft”, Presented at Surgical Approaches for Internal Fixation, Memphis, TN, January 2009.

“Periprosthetic Fractures”, Presented at Trauma Case Controversies, New York, NY, September 2008.

“Tibial Plateau Fractures”, Presented at Advanced Trauma Symposium for Residents, Chicago, IL August 2008.

“Approaches to the Proximal Tibia”, Presented at the Trauma Resident Dissection Course, Ft. Lauderdale, FL, May 2008

“Pelvis and Acetabulum Fractures”, Presented at the AAOS Board Review Course, Chicago, IL May 2008.

“Acetabulum Fractures”, Presented at the AO North America ORP Course, Schaumburg, IL, April 2008

“Bone Healing and Fixation”, Presented at the AO North America ORP Course, Schaumburg, IL, April 2008

“Tibial Nonunions and Malunions”, Presented at the 6<sup>th</sup> Annual Illinois Resident Trauma Course, Chicago, IL March, 2008

“Bone Graft Substitutes and Bone Void Fillers”, Presented at Grand Rounds, Orlando Regional Medical Center, Orlando, FL, February, 2008

“Approaches to the Foot”, Presented at the Community Surgeon Cadaver Dissection Course, Fort Lauderdale, FL, November, 2007

“Tibial Plateau Fractures”, Presented at the 12<sup>th</sup> Annual Resident Review Course, Mahwah, NJ, October, 2007

“Femoral Shaft Fractures”, Presented at the 12<sup>th</sup> Annual Resident Review Course, Mahwah, NJ, October, 2007

“Tibial Shaft Fractures”, Presented at the 12<sup>th</sup> Annual Resident Review Course, Mahwah, NJ, October, 2007

“Distal Femur Fractures”, Presented at the 12<sup>th</sup> Annual Resident Review Course, Mahwah, NJ, October, 2007

“Bone Anatomy and Physiology and Bone Healing”, Presented at the 12<sup>th</sup> Annual Resident Review Course, Mahwah, NJ, October, 2007

“Intertrochanteric Nailing: Tips and Tricks”, Presented at Trauma 101: Trauma for the Community Surgeon”, Cincinnati, OH, April 2007.

“Distal Femur External Fixation: How and When?”, Presented at Trauma 101: Trauma for the Community Surgeon”, Cincinnati, OH, April 2007.

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“Femoral Neck Fractures”, Presented at the 5<sup>th</sup> Annual Illinois Resident Trauma Symposium, Chicago, IL, March 2007

“Intertrochanteric and Subtrochanteric Fractures”, Presented at the 5<sup>th</sup> Annual Illinois Resident Trauma Symposium, Chicago, IL, March 2007

“Distal Femur Fractures” Lecture and lab instructor. Surgical Approaches for Internal Fixation course. Memphis, TN 01/07

“Distal Femur Fractures” Lecture and lab instructor. Surgical Approaches for Internal Fixation course. Memphis, TN 11/06

“Use of Megaprotheses in the Reconstruction of Large Osseous Defects”. University of Illinois at Chicago Residents Dinner, Chicago, IL 6/06

“Bone Healing” AONA Basic Residents Course, Lecture and Lab instructor, Marco Island, FL 6/06

“Bone Infections” ” AONA Basic Residents Course, Lecture and Lab instructor, Marco Island, FL 6/06

Visiting Professor, Southern Illinois University, “Advances in the Treatment of Bone Tumors”, Springfield, IL, March 2006

“Treatment of Metastatic Disease”, Presented at the 4<sup>th</sup> Annual Illinois Resident Trauma Symposium, Chicago, IL, February 2006

“Proximal Humerus Fractures” Lecture and lab instructor. Surgical Approaches for Internal Fixation course. Memphis, TN 11/05

“Platelet Rich Plasma Grafts. The Debate Against”, Presented at the 7<sup>th</sup> Annual Chicago Trauma Symposium, Chicago, IL, August 2005

Visiting Professor, University of Cincinnati, “Advances in the Treatment of Bone Tumors”, Cincinnati, OH April, 2005

“Update on Orthopaedic Oncology”, Presented at Chicago Medical Society, Chicago, IL, March 2005

“Retrograde Femoral Nailing”, Presented at the AONA Advanced Course, Sun Valley, ID, March 2005

“Periprosthetic Fractures in Osteoporotic Bone”, Presented at the AONA Advanced Course, Sun Valley, ID March, 2005

“Oncologic Issues Around the Hip”, Presented at the Illinois Association of Orthopaedic Surgeons, Fall 2004 meeting, Chicago, IL, November 2004

“Locking Compression Plates: Indications, Techniques and Results in Proximal Tibia Fractures”, Presented at the Treatment Options for Difficult Fractures: A New Technology Symposium, Rosemont, IL, September 2004

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“Long Bone Fractures: Nail, Plates, Ex Fix -So Many Options”, Presented at the 6<sup>th</sup> Annual Chicago Trauma Symposium, Chicago, IL, August 2004

“Open Tibia Fractures”, Presented at Ninth Annual Residents Symposium, Cleveland, OH August 2004

“Proximal Humerus and Humeral Shaft Fractures”, Presented at Ninth Annual Residents Symposium, Cleveland, OH, August 2004

“Treatment of Metastatic Disease”, Presented at Sixth Annual Orthopaedic Trauma Update, Loyola Medical School, Chicago, IL June 2004

“Cystic lesions of Bone”, Presented at 20<sup>th</sup> Annual Comprehensive Review Course for Orthopaedic Surgeons”, Chicago, IL May 2004

“Open Tibia Fractures”, Presented at 2<sup>nd</sup> Annual Illinois Orthopedic Resident Trauma Symposium, Chicago IL, March 2004

“Damage Control Orthopedics in the Long Bones”, Presented at Orthopaedics State of the Art 2004, Snowbird, UT February 2004

“Distal Femur ORIF”, Presented at Orthopaedics State of the Art 2004, Snowbird, UT February 2004

“Benign Lesions in Children”, Presented at St. James Hospital Orthopedic Grand Rounds, Olympia Fields, IL January 2004

“Surgical Approaches to the Forearm”, Presented at AAOS course #3629 “Practical Techniques for Improved Fracture Management” Rosemont, IL December 2003

“Subtrochanteric Femur Fracture Care”, Presented at AAOS course #3629 “Practical Techniques for Improved Fracture Management” Rosemont, IL December 2003

“Locking Plates: The Next Generation of Internal Fixation”, Presented at University of Chicago Grand Rounds, Chicago, IL, December 2003

“Locked Plates: A New Era in Internal Fixation”, Presented at Locked Plate Symposium, Chicago, IL October 2003

“Open Tibia Fractures”, Presented at Eighth Annual Residents Symposium, Chicago, IL August 2003

“Humeral Shaft Fractures”, Presented at Eighth Annual Residents Symposium, Chicago, IL August 2003

“Fixation of Proximal Femur Fractures”, Presented at AO ORP Course, Chicago, IL August 2003

“Treatment of Metastatic Disease by Prosthetic Replacement”, Presented at Fifth Annual Orthopaedic Trauma Update, Loyola Medical School, Chicago, IL June 2003

“Cystic lesions of Bone”, Presented at 19<sup>th</sup> Annual Comprehensive Review Course for Orthopaedic Surgeons”, Chicago, IL May 2003

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“Femoral Neck and Intertrochanteric Femur Fractures”, Presented at Illinois Orthopedic Resident Trauma Symposium, Chicago, IL March 2003

“Subtrochanteric Femur Fractures”, Presented at Illinois Orthopedic Resident Trauma Symposium, Chicago, IL March 2003

“Pelvic Fractures”, Presented at St. James Hospital Orthopedic Grand Rounds, Olympia Fields, IL March 2003

“Tibia Shaft Fractures”, Presented at Seventh Annual Residents Symposium, Phoenix, AZ, September 2002, AO Residents Course, Milwaukee, WI, July 2002

“Bone Graft Substitutes”, Presented at Seventh Annual Residents Symposium, Phoenix, AZ, September 2002, AO Residents Course, Milwaukee, WI, July 2002

“Trauma Tips and Tricks”, Presented at State of the Art in Orthopaedic Trauma: Management of the Critically Ill Patient”, Baltimore, MD April 2002.

“Introduction to Orthopaedic Oncology”, Presented at Cook County Hospital Emergency Department Grand Rounds, Chicago, IL, April 2002.

“Pelvic Fractures”, Presented at the University of Illinois at Chicago Orthopedic Grand Rounds, Chicago, IL, January 2000

“Pelvic Fractures”, Presented at the Rush University Department of General Surgery Grand Rounds, Chicago, IL, June 2000

“Principles of Plating”, Presented at the AO/ASIF ORP Meeting, Baltimore, MD November 1998.

## **Presentations**

“Treatment of Vertical Femoral Neck Fractures with a Horizontal Lag Screw”, Walter Virkus, MD, Marcus F. Sciadini, MD, Thomas Higgings, MD. Presented at the American Academy of Orthopaedic Surgeons, Las Vegas, NV, 2009.

“Operative Treatment of Acetabular Fractures in an Older Population”, Carroll EA., Huber FG, Goldman A, Virkus WW, Pagenkopf EL, Lorich DG, Helet DL. Presented at the American Academy of Orthopaedic Surgeons, Las Vegas, NV, 2009.

“Oncologic Outcomes of Giant Cell Tumor of the Distal Radius”. Robert Wysocki, MD, Zachary Adler, MD, Steven Gitelis, MD, Mark T. Scarborough, MD, Walter Virkus, MD. Presented at the Musculoskeletal Tumor Society, Phoenix, AZ, November 2008.

“Intercalary Allograft Reconstructions using a Compressible Intramedullary Nail: Preliminary Results of a New Technique”. Benjamin Miller, MD, Walter W. Virkus, MD. Presented at the Musculoskeletal Tumor Society, St. Louis, MO, May 2007.

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“Tumor Prostheses are Good...But Not that Good” Steven Gitelis, MD, Jeffery Yergler, MD, Eric Berkson, MD, Neal Sawlani, BS, Susan Schott, Walter Virkus, MD. Presented at the American Academy of Orthopaedic Surgeons, San Diego, CA, February 2007.

“Periprosthetic Femoral Fracture Fixation with a Locking Plate”. Craig Della Valle, MD, Todd Schubkegel, MD, Walter W. Virkus, MD, Scott M. Sporer, MD, Wayne G. Paprosky, MD. Presented at the Association of Hip and Knee Surgeons, Dallas, TX, November 2005

“The Use of Locking Plates in Orthopaedic Oncology”, Walter W. Virkus, MD, Ping C. Chye, MD, Steven Gitelis, MD. Presented at the Musculoskeletal Tumor Society Annual Meeting, Long Beach, CA, 2004

“Functional and Oncological Outcomes for Giant Cell Tumor Treated by Intralesional Excision with Joint Preservation”. Paul Saiz, M.D., Walter Virkus, M.D., Patricia Piasecki, R.N., M.S. ONC, Alexander Templeton, M.D., Susan Shott PhD. and Steven Gitelis, M.D. Presented at AAOS, New Orleans, LA, March 2003

“The Effect of Contaminated Margins Revisited”. Walter W. Virkus, MD, David T. Marshall, MD, William F. Enneking, MD, Mark T. Scarborough, MD. Presented at Musculoskeletal Tumor Society, May 2001, Baltimore, MD

"Stage IE Primary Lymphoma of Bone: The UF Experience". David T. Marshall, MD, Nancy P. Mendenhall, MD, Robert R. Marcus, MD, Walter W. Virkus, MD, Robert Amdur, MD Presented at: 30<sup>th</sup> Annual UF Radiation Oncology Clinical Research Seminar

“Outcomes of Acetabular Fractures Treated Operatively in the Elderly Population”. Walter W. Virkus, MD, Jeremy Sussman, BS, Alison Gill, RN, Pamela Williams-Russo, MD, MPH, David L. Helfet, MD Presented at Orthopedic Trauma Association, October 2000, San Antonio, TX

"Preoperative Radiotherapy in the Treatment of Soft Tissue Sarcoma". Walter W. Virkus, MD, Allaaddin Mollabashy, MD, John D. Reith, MD, B. Hudson Berrey, MD, Robert A. Zlotnicki, MD, Mark T. Scarborough, MD Presented at Musculoskeletal Tumor Society, May 2000, Gainesville, FL

"The Role of Pre-Operative Adjuvant Radiation Therapy in the Treatment of Low Grade Soft Tissue Sarcomas". Allaaddin Mollabashy, MD, Walter W. Virkus, MD, B. Hudson Berrey, MD, Mark T. Scarborough, MD Presented at Musculoskeletal Tumor Society, May 2000, Gainesville, FL

“Short-term Complications of Rod-Sleeve Instrumentation for Treatment of Thoracolumbar Burst Fractures”. Walter W. Virkus, MD, Richard S. Richards, MD, Andrew N. Pollak, MD Presented at AAOS, March 2000, Orlando, FL

“Long-term Results of Pedicle Screw Fixation in Low Lumbar Burst Fractures”. Walter W. Virkus, MD, Alan M. Levine, MD Presented at Orthopaedic Trauma Association, Oct. 1997, Louisville, KY

“Brachytherapy in the Treatment of Spinal Neoplasms”, Alan M. Levine, MD, Walter W. Virkus, MD, Pradip Amin, MD Presented at AAOS, February 1996, Atlanta, GA

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“Brachytherapy in the Treatment of Spinal Neoplasms”, Alan M. Levine, MD, Walter W. Virkus, MD, Pradip Amin, MD Presented at Maryland Orthopaedic Society Second Annual Scientific Meeting , May 1996, Baltimore, MD (Winner “Best Clinical Paper”)

“Brachytherapy in the Treatment of Spinal Neoplasms”, Alan M. Levine, MD, Walter W. Virkus, MD, Pradip Amin, MD Presented at Southern Medical Association, November 1996, Baltimore, MD

## **Publications**

Wysocki RW, Kapotas JS, Virkus WW. Intramedullary nailing of proximal and distal one-third tibial shaft fractures with intraoperative two-pin external fixation. *J Trauma.* 66(4):1135-9, April 2009.

Virkus WW, Miller BJ, Chye PC, Gitelis S. The use of locking plates in orthopedic oncology reconstructions. *Orthopedics.* 31(5), May 2008.

Sah AP, Marshall A, Virkus WW, Estok DM 2nd, Della Valle CJ. Interprosthetic Fractures of the Femur Treatment With a Single-Locked Plate. *J Arthroplasty.* 2, Dec 2008.

Virkus WW, Goldberg SH, Lorenz EP. A comparison of compressive force generation by plating and intramedullary nailing techniques in a transverse diaphyseal humerus fracture model. *J Trauma.* 65(1):103-8, June 2008.

Wysocki RW, Sheinkop MB, Virkus WW, Della Valle CJ. Femoral fracture through a previous pin site after computer-assisted total knee arthroplasty. *J Arthroplasty.* 23(3):462-5, Apr 2008.

Lee GH, Virkus WW, Kapotas JS. Arthroscopically Assisted Minimally Invasive Intraarticular Bullet Extraction: Technique, Indications, and Results. *J Trauma.*;64(2):512-6, Feb2008.

Virkus, WW. Guest Editorial. *The Journal of Knee Surgery*, 20(1), 48- 49, 2007.

Berkson, EM, Virkus, WW: High-Energy Tibial Plateau Fractures. *J Am Acad Orthop Surg.* 14(1): 20-31, 2006.

Virkus, WW: Evaluation of Masses of the Knee. *The Journal of Knee Surgery* 18(4): 292-297, 2005.

Saiz P, Virkus WW, Piasecki P, Templeton A, Schott, S, Gitelis: Results of Giant Cell Tumor of Bone Treated with Intralesional Excision. *Clin Orthop* 424: 221-226, 2004.

Saiz P, Gitelis S, Virkus WW, Piasecki P, Bengana C, Templeton A: Blastomycosis of Long Bones. *Clin Orthop* 421: 255-259, 2004.

Gitelis S, Virkus WW, Anderson D, Piasecki P, Yao, Ting Kuo: Functional Outcomes of Bone Graft Substitutes for Benign Bone Tumors. *Orthopedics* 27(1)S: 141-144, 2004.

Marshall DT, Amdur R, Scarborough MT, Mendenhall NP, Virkus WW: Stage IE Primary Non-Hodgkin’s Lymphoma of Bone. *Clin Orthop* 405:216-222, 2002.

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Virkus WW, Mollabashy A, Reith JD, Berrey BH, Zlotecki RA, Scarborough MT: Preoperative Radiotherapy in the Treatment of Soft Tissue Sarcoma. *Clin Orthop* 397:177-189, 2002.

Virkus WW, Marshall DT, Enneking WF, Scarborough MT: The Effect of Contaminated Margins Revisited. *Clin Orthop* 397: 89-94, 2002.

Mollabshy A, Virkus WW, Virkus WW, Berrey BH, Scarborough MT: The Role of Pre-Operative Adjuvant Radiation Therapy in the Treatment of Low Grade Soft Tissue Sarcomas. *Clin Orthop* 397: 190-195, 2002.

Virkus WW, Helfet DL: Intramedullary Rod Fixation of the Humerus Through a Retrograde Approach. In Warren RF (Ed.), *Techniques in Shoulder and Elbow Surgery*, 1(3):163-168, 2000.

Brumback RJ, Virkus WW: Reamed versus Nonreamed Intramedullary Nailing of the Femur. *J Am Acad Orthop Surg.* 8(2):83-90, 2000.

## **Books**

Curbside Consultation in Fracture Management, Virkus, WW (ed.), Slack Incorporated, Thorofare, NJ, 2008

Handbook of Fractures, 3<sup>rd</sup> Edition, Elstrom JA, Virkus WW, Pankovich AM (Eds.), McGraw-Hill, New York, NY 2006.

## **Book Chapters**

Maroto, M, Virkus, WW. [Which Fractures Require Anatomic Reduction?]. In Virkus WW (Ed.), Curbside Consultation in Fracture Management. Slack, Inc., 2008.

Virkus, WW, Syed, I. [What are Your Tricks for Nailing Proximal and Distal Tibial Fractures?]. In Virkus WW (Ed.), Curbside Consultation in Fracture Management. Slack, Inc., 2008.

Virkus, WW. [I Have a Tough Time with Subtrochanteric Fractures. Any Tricks?]. In Virkus WW (Ed.), Curbside Consultation in Fracture Management. Slack, Inc., 2008.

Dumonski M, Virkus WW. [Periprosthetic Supracondylar Femur Fractures]. In DellaValle C (Ed.), Curbside Consultation in Total Knee Arthroplasty. Slack, Inc., 2008.

Virkus WW, Lin JL: [Fractures of the Tibial Pilon] In Elstrom JA, Virkus WW, Pankovich AM (eds.): Handbook of Fractures, 3<sup>rd</sup> Edition. McGraw-Hill, New York, NY 2006.

Virkus WW, Wakim EP: [Methods of Fixation] In Elstrom JA, Virkus WW, Pankovich AM (eds.): Handbook of Fractures, 3<sup>rd</sup> Edition. McGraw-Hill, New York, NY 2006.

Virkus WW, Elstrom JA: [Evaluation and Management of the Multiply Injured Patient] In Elstrom JA, Virkus WW, Pankovich AM (eds.): Handbook of Fractures, 3<sup>rd</sup> Edition. McGraw-Hill, New York, NY 2006.

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Virkus WW, Helfet, DL: [Tibial Plateau Fractures] In Insall J, Scott N (eds.): Surgery of the Knee, 3<sup>rd</sup> Edition. Churchill-Livingstone , New York, NY, 2001.

Enneking FK, Scarborough MT, Virkus WW: [Anesthesia for Orthopedic Surgery] In Kirby R, Gravenstein N (eds.): Clinical Anesthesia Practice, 2<sup>nd</sup> Edition. W. B. Saunders Co., Philadelphia, PA, 2001.

Virkus WW, Pollak AN, Currea D: [Pelvic Fractures] In Rodriguez A, Ferrada R (eds.): Trauma. Sociedad Pan Americana de Trauma, Columbia. pp. 509-517, 1997.

## **Electronic Media**

Virkus WW. Upper Extremity Metastatic Disease. In Grana, William (ed.), Orthopedic Knowledge Online, [www.aaos.org](http://www.aaos.org), November 2005

Virkus WW, Goldberg SH, Gitelis S. Enchondroma. [www.aaos.org](http://www.aaos.org), October 2005

Gitelis S, Virkus WW. Limb Salvage vs. Amputation for Extremity Bone Sarcomas. [www.aaos.org](http://www.aaos.org), March 2005.

Selective Exposures in Orthopaedic Surgery: The Knee, Charles Bush-Joseph, MD (ed.), AAOS, Rosemont, IL 2002.