

## ***Curriculum Vitae***

Sam Nasser, M.D.

Associate Professor,

Department of Biomedical Engineering, Wayne State University College of Engineering  
Director of Adult Reconstruction, Beaumont Hospital, Grosse Pointe

### **Office Address:**

Beaumont Hospital Medical Center  
Department of Orthopaedic Surgery  
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### **Personal Data:**

Date of Birth: January, 1953, Farmington, New Mexico  
Citizenship: United States of America

### **Education:**

#### **Undergraduate:**

Lansing Community College, Lansing, Michigan  
September, 1971 - June, 1973  
Major: Pre-Engineering

Michigan State University, East Lansing, Michigan  
September, 1973 - March, 1975  
Major: Biochemistry

#### **Graduate / Professional:**

Wayne State University School of Medicine, Detroit, Michigan  
September, 1975 - June, 1982  
Combined M.D., Ph.D. Program  
Doctoral Dissertation: *On the Heterogeneity of Human Striated Muscle Tropomyosin*  
Adviser: Alejo E. Romero-Herrera, M.D., Ph.D.

**Academic Honors:**

State of Michigan Competitive Scholarship, 1971 - 1975  
Michigan Competitive Mathematics Prize 1971  
Michigan State University Junior College Valedictorian Scholarship, 1973 - 1975  
ΑΩΑ Honor Society, Wayne State University School of Medicine  
Aesculapian Honor Society, Wayne State University School of Medicine  
Graduate with Honors in Biomedical Research, Wayne State University School of  
Medicine, June. 1982

**Internship:**

General Surgery  
Wayne State University General Surgery Residency Affiliated Hospitals (the Allen  
Park Veterans Administration Medical Center, Detroit Receiving Hospital, Grace  
Northwest Hospital, Harper Hospital, and Hutzel Hospital)  
Detroit, Michigan  
July, 1982 - June 1983  
Chairman and Program Director: Alexander Walt, M.B.,Ch.B.

**Residency:**

Orthopaedic Surgery  
Wayne State University Orthopaedic Surgery Residency Affiliated Hospitals (the Allen  
Park Veterans Administration Medical Center, Children's Hospital of Michigan,  
Detroit Receiving Hospital, Harper Hospital, and Oakwood Hospital, Dearborn,  
Michigan)  
Detroit, Michigan  
July, 1983 - June, 1987  
Chairman and Program Director: Richard L. LaMont, M.D.

**Fellowship Training:**

National Institutes of Health Surgeon Scientist Fellowship  
University of California Los Angeles Health Center  
Department of Surgery, Division of Orthopaedic Surgery  
Los Angeles, California  
July 1987 - June 1988

Orthopaedic Research Fellowship, Adult Reconstruction  
University of California, Los Angeles  
Department of Surgery, Division of Orthopaedic Surgery  
Los Angeles, California  
July 1988 - June 1989  
Division Chief and Fellowship Director: Harlan C. Amstutz, M.D.

**Additional Educational Experience and Certification:**

Northwestern University Prosthetics and Orthotics Course, 1985, Chicago, Illinois  
A.O./A.S.I.F. Basic and Hip Courses, 1986, Toronto, Ontario  
A.O./A.S.I.F. Advanced and Pelvic Courses, 1986, Davos, Switzerland  
Midas Rex Certification, 1987, Detroit, Michigan  
Ilizarov Method Course, 1991, Tucson, Arizona  
A.A.O.S. Orthopaedic Educators Course, 1993, Monticello, Illinois  
A.A.O.S. Minimally Invasive Arthroplasty Course, 2003, Rosemont, Illinois  
A.A.O.S. Computer Navigation Arthroplasty Course, 2004, Cincinnati, Ohio  
A.A.O.S. Minimally Invasive Arthroplasty Course, 2005, Rosemont, Illinois  
A.O.A. / Kellogg School of Management of Northwestern University,  
Leadership Series, 2006, Evanston, Illinois

**Certification and Licensure:**

Diplomate, National Board of Medical Examiners, July, 1982, No. 218113  
American Board of Orthopaedic Surgery  
Certification: July, 1991 (Expired December, 2001)  
Re-Certification: July, 2000 (Effective January, 2002, expires December 2011)  
State Medical Licensure  
State of Michigan: 4301046341  
State of California: G-059440  
State of Georgia: 033162  
U.S. Drug Enforcement Agency Registration: AN2325264

**Faculty and Teaching Appointments:**

Instructor, Gross Anatomy, Wayne State University School of Medicine, 1977 - 1980:  
Instructor, Gross Anatomy, Wayne State University School of Pharmacy and Allied Health,  
1978 - 1980:  
Instructor, Oral Histology, University of Detroit School of Dentistry, 1980  
Clinical Assistant Professor, Division of Orthopaedic Surgery,  
U.C.L.A. School of Medicine, 1987 - 1989  
Assistant Professor, Division of Orthopaedic Surgery,  
U.C.L.A. School of Medicine, 1989-1990  
Assistant Professor, Department of Orthopaedic Surgery,  
Emory University School of Medicine, 1990 - 1993  
Associate Professor and Clinical Educator, Department of Orthopaedic Surgery,  
Wayne State University School of Medicine, 1993 - 2005  
Associate Professor, Department of Biomedical Engineering,  
Wayne State University College of Engineering, 1998 – Present  
Professor, Department of Orthopaedic Surgery,  
Wayne State University School of Medicine, 2005 - 2008  
Director of Undergraduate Medical Student Orthopaedic Education  
Co-Director, Adult Reconstruction Fellowship

Instructor, Rheumatology Core Curriculum, Department of Medicine,  
Wayne State University School of Medicine  
Instructor, Wayne State University School of Pharmacy and Allied Health,  
Department of Physical Therapy  
Department of Occupational Therapy

**Hospital Appointments:**

Attending Surgeon, U.C.L.A. Medical Center, Los Angeles, CA; 1998 – 1990  
Attending Surgeon, Emory University Affiliated Hospitals, Atlanta, GA; 1990 – 1993  
Chief, Adult Reconstructive Surgery, Crawford W. Long Memorial Hospital of Emory  
University, Atlanta, GA; 1990 – 1993  
Chief, Section of Orthopaedic Surgery, Atlanta Veterans Administration Medical  
Center, Decatur, GA; 1990 – 1993  
Attending Surgeon, Detroit Medical Center Hospitals, (Harper Hospital, Hutzel  
Hospital, Huron Valley Hospital) Detroit, MI; July 1993 – February, 2007  
Chief, Section of Orthopaedic Surgery, Veterans Administration Medical Center,  
Allen Park, MI; 1993– 1996  
Chief, Section of Orthopaedic Surgery, Veterans Administration Medical Center,  
Detroit, MI; 1996 – 1999  
Attending Surgeon, Bon Secours and Cottage Hospitals, (William Beaumont Hospital, Grosse  
Pointe, as of October, 2007) Grosse Pointe MI; 2001 – Present  
Attending Surgeon, The Michigan Orthopaedic Specialty Hospital,  
Madison Heights, MI; March 2003 – February, 2007  
Senior Staff Physician, Henry Ford Health System; March, 2007 – May, 2008  
Director, Adult Reconstruction Service, Beaumont Hospital Grosse Pointe:  
May 2008 - Present

**Professional Society Membership:**

The American Academy of Orthopaedic Surgeons (A.A.O.S.)  
The American Association of Orthopaedic Surgeons  
The American Orthopaedic Association  
The Orthopaedic Research Society (O.R.S.)  
The Academic Orthopaedic Society (now part of the American Orthopaedic Association)  
*Société Internationale de Chirurgie Orthopédique et de Traumatologie* (S.I.C.O.T.)  
The International Society for Technology in Arthroplasty (I.S.T.A.)  
The Society for Biomaterials  
The Musculoskeletal Infection Society  
American Society for Testing and Materials (A.S.T.M.)  
American Association for the Advancement of Science  
Mid America Orthopaedic Association  
Michigan Orthopaedic Society  
Detroit Academy of Orthopaedic Surgery

## **Professional Honors and Awards:**

*The John Charnley Award* from the **Hip Society (U.S.)** for Excellence in Orthopaedic Research for: "Cementless Total Joint Arthroplasty Prostheses with Titanium Alloy Articular Surfaces: A Human Retrieval Analysis." Presented at the Eighteenth Open Scientific Meeting of the Hip Society, New Orleans, LA, 1990

*The Hearndon Award* from the **Musculoskeletal Transplant Foundation** and the **Orthopaedic Research and Education Foundation** for: "Immunological Responses to Bone Soluble Proteins and Histocompatibility Antigens in Bone Allograft Recipients" Presented at the A.A.O.S. Annual Meeting, San Francisco, CA, 2001

**ΑΩΑ Teacher of the Year**, Wayne State University School of Medicine, 2000

**Teacher of the Year**, Department of Orthopaedic Surgery, Wayne State University, 2005

Named to "**The Best Doctors in America**" annually, 2001 - 2008

Named to "**America's Top Physicians**" by The Consumers' Research Council of America, Annually 2004 – 2008

## **Professional Service:**

### **Journal and Editorial Activity:**

Editorial Review Board, Clinical Orthopaedics and Related Research, 1988 – 2008

Editorial Review Board, The Journal of Bone and Joint Surgery, 2001 – Present

Editorial Review Board, Journal of Rehabilitation Research and Development  
2005 - Present

Guest Editor, Orthopaedic Clinics of North America, April, 1992 : "Complications of Total Hip Replacement"

### **Corporate Professional Consultation**

Kinamed, Inc., Los Angeles, CA; 1988 – 1995; Instrument design

The Hip and Knee Registry Advisory Board, R.P.R. Pharmaceuticals, Inc., Boston, MA; 1995 – 1999

Orthovita, Inc., Philadelphia, PA; 1997 – 2002; Physician Advisory Board

Implex, Inc., Allendale, NJ; 1997 – 2003; Instrument and implant design

Stryker Howmedica Osteonics, Rutherford, NJ; 1998 – 2004; Instrument and implant design, Modular Hinge Knee design team, Duracon II Knee design team, Advanced Orthopaedic Materials Team

Biopro, Inc., Port Huron, MI; 1998 – 2000; Instrument design

Biomet, Inc, Warsaw, IN; 1998 – Present; Physician Speaker Board, Instrument design

Smith and Nephew – Richards, Memphis, TN, 2000 – Present; Instrument and implant design, Hinged Knee / Oncology Knee Design team member

DePuy Division of Johnson and Johnson, Inc., Warsaw, IN; 2003– Present; Physician Speaker Board, Instrument design

**Governmental and other Non-Corporate Professional Consultation**

Food and Drug Administration, Device Good Manufacturing Practice Advisory Committee Member; Center for Devices and Radiological Health; Bethesda, MD; 2001 – 2005  
Arthritis Foundation (Michigan Chapter) Medical and Scientific Committee Member, 1999 - 2005

**Professional Society Activity:**

Commentator, A.A.O.S. Annual Meetings; 1992, 1994 – 1996, 1998 – 2000, 2002-2005  
Provocateur, O.R.S. Annual Meetings; 1993, 1997, 1999, 2000, 2002, 2005  
Commentator, Michigan Orthopaedic Society Meetings; 1994 - 2006  
Commentator, I.S.T.A. Annual Meetings; 1999, 2002 - 2008  
A.A.O.S. Committee on Biological Materials; Member, 1993 – 1999  
Liaison, Michigan Orthopaedic Society to the Michigan State Medical Society 1999 – 2004  
Board of Directors, I.S.T.A., 2003 - 2008

**University / Department / Hospital Committees:**

Infection Control Committee	Member 1993 – 2007
Orthopaedic Research Committee	Member 1993 – 2007
Resident Selection Committee	Member 1994, 1995, 1997 – 1999, 2002
Department Chair Selection Committee	Member 1995 – 1996
Surgical Operations Committee	Chairman 1998 – 2007
	Member 2007 - present
Medical Center Operations Committee	Member 2000 – 2007
Pharmacy and Medications Committee	Member 2003 - 2007

**Research and Grant Support:**

Interface Group for Osteolysis Studies (I.G.O.S.); \$5,000 (1991)

Recombinant Human Erythropoietin (r-HuEPO) Protocol No. J89-001 (Phase II trial); R.W. Johnson Pharmaceutical Research Institute: M. Maslanka, J. Roberson, R. DeAndrade and S. Nasser; \$29,000 (1991–1992)

Immunological Responses to Implant Biomaterials Following Total Joint Arthroplasty; Department of Veterans Affairs Merit Award: S. Nasser and P. Wooley (Principal Investigators) and R. Fitzgerald (Co-Investigator); \$558,200 (1994-1997)

Biological Responses in the Pathogenesis of Aseptic Loosening; Department of Veterans Affairs Merit Award: S. Nasser and P. Wooley; \$605,500 (1998-2000)

Investigation of Orthopaedic Implant Materials Using an Air Pouch Model of Inflammation; DePuy, Inc. \$14,500 (1998-1999)

Phase II Clinical Evaluation of a Metal - on - Metal Total Hip Replacement Articular Bearing; Wright Medical, Inc., \$37,000

Biological Responses in the Pathogenesis of Aseptic Loosening, Department of Veterans Affairs Merit Award: S. Nasser and P. Wooley; (2001-2003) \$645,500

Development of a Prosthesis Identification Algorithm for Total Joint Revision Surgery. Biomet, Inc. (2001-2002) \$20,000

Immunological Responses to Bone Soluble Proteins and Histocompatibility Antigens in Bone Allograft Recipients. The Orthopaedic Research and Education Fund; (2001-2004) \$96,000

Biological Responses in the Pathogenesis of Aseptic Loosening, Department of Veterans Affairs Merit Award: P. Wooley, S. Nasser and R. Blasier; (2004-2007) \$725,500

### **Publications:**

#### **Original Observations in Refereed Journals:**

1. Romero - Herrera, A.E., Lieska, N. and Nasser, S.: Characterization of the Myoglobin of the Lamprey *Petromyzon marinus*. The Journal of Molecular Evolution, 14: 259-266, 1979
2. Nasser, S., Bradley, R., Alcalà, J, and Maisel, H.: Regional Differences in the Composition of the Bovine Lens Urea-Soluble Proteins. Experimental Eye Research, 30:109-113, 1980
3. Romero - Herrera, A.E., Nasser, S., and Lieska, N.: Heterogeneity of Human Striated Muscle Tropomyosin. Muscle and Nerve, 5:713-718, 1982
4. Amstutz, H.C., Nasser, S., Kabo, J.M., and Moore, R.C.: The Anthropometric Total Hip Femoral Prosthesis: Preliminary Clinical and Radiographic Findings of "Exact - Fit" Cementless Application. Clinical Orthopaedics and Related Research, 242:104-119, 1989
5. Amstutz, H.C., Nasser, S., and Kabo, J.M.: Preliminary Results of an Off - the- Shelf, Press - Fit Stem: The ATH component Using Exact - Fit Principles. Proceedings of the Hip Society, 1989 in Clinical Orthopaedics and Related Research, 249:60-72, 1989

6. Nasser, S. and Manoli, A.: Fracture of the Entire Posterior Process of the Talus. Foot and Ankle, 10:235-238, 1990
7. Davlin, L.B., Tooke, S.M., Amstutz, H.C., Dorey, F.J. and Nasser, S.: Treatment of Osteoarthritis Secondary to Congenital Dysplasia of the Hip: Primary Cemented Surface Replacement Compared with Conventional Total Hip Replacement. The Journal of Bone and Joint Surgery, 72A:1035-1042, 1990
8. Nasser, S., Campbell, P.A., Kilgus, D.J., Kossovsky, N. and Amstutz, H.C.: Cementless Total Joint Arthroplasty Prostheses with Titanium Alloy Articular Surfaces: A Human Retrieval Analysis, Proceedings of the Hip Society, 1990, (Clinical Orthopaedics and Related Research, 261:171-185, 1990)
9. Campbell, P., Nasser, S., Kossovsky, N. and Amstutz, H.C.: Histopathological Effects of Ultrahigh-molecular-weight Polyethylene and Metal Wear Debris in Porous and Cemented Hip Replacements. Particulate Debris from Medical Implants: Mechanisms of Formation and Biological Consequences. ASTM STP 1144:38-51, Philadelphia, PA, The American Society for Testing and Materials, 1992
10. Kossovsky, N., Kazuko, L., Gelman, A., Campbell, P., Amstutz, H.C., Finerman, G., Nasser, S. and Thomas, B.J.: Photon Correlation Spectroscopy Analysis of the Submicrometer Particulate Fraction in Human Synovial Tissues Recovered at Autopsy or Revision, Particulate Debris from Medical Implants: Mechanisms of Formation and Biological Consequences. ASTM STP 1144:68-74, Philadelphia, PA, The American Society for Testing and Materials, 1992
11. Dorey, F.J., Amstutz, H.C. and Nasser S: The Use of Confidence Intervals in the Evaluation of Orthopaedic Data. The Journal of Bone and Joint Surgery, 75A:1844-1853, 1993.
12. Wooley, P.H., Nasser, S. and Fitzgerald, R.H.: The Immune Response to Implant Materials. Clinical Orthopaedics and Related Research 326:63-070, 1996
13. Wooley, P.H., Petersen, S., Song, S., and Nasser, S.: Cellular Immune Responses to Orthopaedic Implant Material Following Cemented Total Joint Replacement. Journal of Orthopaedic Research 15:874-880, 1997
14. Poggie, R., Makoto, T., Averill, R., and Nasser, S.: Accelerated Aging and Associated Changes in Ultra-High Molecular Weight Polyethylene (UHMWPE) Microstructure as a Function of Resin Type and Consolidation Variables. Characterization and Properties of Ultra-High Molecular Weight Polyethylene ASTM STP 1307:120-129, Philadelphia PA American Society for Testing and Materials, 1998



15. Ure, K.E., Amstutz, H.C., Nasser, S., and Schmalzried, T.P.: Direct-Exchange Arthroplasty for the Treatment of Infection after Total Hip Replacement: An Average Ten Year Follow-Up. The Journal of Bone and Joint Surgery, 80A:969-968, 1998
16. Placzek, J., Rubal, P., Freeman, C., Keizlig, C., Nasser, S. and Pagett, B.: Long -Term Effectiveness of Translational Manipulation for Adhesive Capsulitis. Clinical Orthopaedics and Related Research, 356:181-190, 1998
17. Wooley, P.H., Sud, S., Whalen, J.D. and Nasser, S.: Pristane-Induced Arthritis in Mice: Susceptibility to Pristane-Induced Arthritis is Determined by the Genetic Regulation of the T-Cell Repertoire. Arthritis and Rheumatism, 41(11):2002-31, 1998
18. Wooley, P.H., Fitzgerald, R.H., Song, Z., Davis, P., Whalen, J.D., Trumble, S. and Nasser, S.: Antibodies to Implant Bound Proteins in Patients with Aseptic Loosening of Total Joint Arthroplasty: a Preliminary Report. The Journal of Bone and Joint Surgery: 81A: 616-21, 1999
19. Chada, H.S., Fitzgerald, R.H., Song, Z., Davis, P., Whalen, J.D., Trumble, S., Nasser, S. and Wooley, P.H.: Experimental Acute Hematogenous Osteomyelitis in Mice: Histopathological and Immunological Findings. Journal of Orthopaedic Research, 17(3):376-91, 1999
20. Nasser, S. and Markel, D.: Inexpensive Methods of Cement Containment in the Presence of Cortical Bone Defects. Journal of Arthroplasty, 14(4):514-6, 1999
21. Wooley, P.H., Morren, R., Sud, S., Mayton, L., Andary, J. and Nasser, S.: Inflammatory Responses to Metallic and Polymeric Particles in the Murine Air Pouch Model. Biomaterials, 23: 517-526, 2002
22. Yang, S., Ren, Y., Sieving, S. Hsu, S., Nasser, S, Wooley, P.H.: Diverse Cellular and Apoptotic Response to Variant Shapes of UHMWPE Particles in a Murine Model of Inflammation. Biomaterials, 23: 3535-3543, 2002.
23. Sieving A., Wu, B., Mayton, L., Nasser, S., Wooley, P.H., Morphological Characteristics of Total Joint Arthroplasty-derived Ultra-high Molecular Weight Polyethylene (UHMWPE) Wear Debris the Provoke Inflammation in a Murine Model of Inflammation. Journal of Biomedical Materials Research.
24. Nasser, S. and Poggie, R.A.: Revision and Salvage Patellar Arthroplasty Using a Porous Tantalum Implant. The Journal of Arthroplasty. 19(5):562-572, 2004

25. Bobyn, J.D., Poggie, R.A., Krygier, J.J., Lewallen, D.G., Hansen, A., Lewis, R.J., Unger, A.S., O'Keefe, T., Christie, M., Nasser, S., Wood, J.E., Stulberg, D. and Tanzer, M.: Clinical Validation of a Structural Porous Biomaterial for Adult Reconstruction. The Journal of Bone and Joint Surgery, 86 A (Supp. 2):123-129, 2004
26. Clark, K.C., Donaldson T., Bowsher J.G., Nasser, S., Takahashi T., Orthopaedic Clinics of North America, 36(2):143-62, viii, April 2005.
27. Yang, S.Y., Nasser, S., Markel, D.C., Robbins, P.D., and Wooley, P.H. Human Periprosthetic Tissue Implanted in Severe Combined Immunodeficient Mice Respond to Gene Transfer of a Cytokine Inhibitor. The Journal of Bone and Joint Surgery, 87A(5):1088-1097, 2005
28. Vandevorde, P.J., Wooley, P.H., and Nasser, S.: Immunological Responses to Bone Soluble Proteins and Histocompatibility Antigens in Bone Allograft Recipients. Accepted for publication, Clinical Orthopaedics and Related Research, 23(50):1059-64, Sept. 2005.
29. Markel, D., Pagano, P., Andary, M. And Nasser, S. Assessment of Acetabular Component Version by Plain Radiographs. Accepted for publication, The American Journal of Orthopaedics , 36(1):39-41, 2007.
30. Administration during Primary and Revision Total Joint Replacement Arthroplasty. Accepted for publication, The American Journal of Orthopaedic Surgery.
31. Mendelson, A., Song, Z., Nasser, S. and Wooley, P.H. Cellular Reactivity to Polymethyl-Methacrylate (P.M.M.A.) is Predominantly B-cell Mediated, Accepted for publication, The Journal of Orthopaedic Research.

### **Invited Reviews**

1. Nasser, S.: Prevention and Treatment of the Sepsis in Total Hip Replacement Surgery. Orthopaedic Clinics of North America, 23:265-277 1992
2. Swazey, O.S., Nasser, S. and Roberson, J.R.: Deep Venous Thrombosis in Total Hip Arthroplasty. Orthopaedic Clinics of North America, 23:359-364 1992

3. Fitzgerald, R.H., Randall, K.R., Brown, W.J. and Nasser, S.: Treatment of the Infected Total Hip Arthroplasty. Current Opinion in Orthopaedics, 5:26-30 1994
4. Nasser,S.: The Incidence of Sepsis Following Total Hip Arthroplasty. Seminars in Arthroplasty, 5:126-131 1994
5. Toumbis, C.A., Kronick, J.L., Wooley, P.H. and Nasser, S.: Total Joint Arthroplasty and the Immune Response. Seminars in Arthritis and Rheumatism, 27:7-44 (1997)
6. Clarke, I.C., Donaldson, T., Bowsher, J., Nasser, S. and Takahashi, T. Current Concepts of Metal-on-Metal Hip Resurfacing. Orthopedic Clinics of North America, 36(2):143-162, 2005

### **Book Chapters**

1. Nasser, S., Schmalzried, T.P. and Amstutz, H.C.: "Sepsis Prevention" In *Hip Arthroplasty*, Edited by H.C. Amstutz, Churchill Livingstone, New York, 1991
2. Nasser, S., Lee, Y.F. and Johnson, B.L.: "Sepsis Diagnosis and Treatment" in *Hip Arthroplasty*, Edited by H.C. Amstutz, Churchill Livingstone, New York, 1991
3. Gould, R., Seegers, L. and Nasser, S.: "Imaging Techniques: in *Hip Arthroplasty*, Edited by H.C. Amstutz, Churchill Livingstone, New York, 1991
4. Amstutz, H.C., Nasser, S., Campbell, P.A., Dorey, F. and Kabo, M.J.: "Modes of Failure of Surface Replacement Arthroplasty" in *Hip Arthroplasty*, Edited by H.C. Amstutz, Churchill Livingstone, New York, 1991
5. Gross, M., Nasser, S. and Finerman, G.: "Injuries to the Hip and Pelvis" in *Orthopaedic Sports Medicine*, Edited by J.C. DeLee and D. Drez, W.B. Saunders Co., New York, 1993
6. Seiler, J.G. and Nasser, S.: "Rheumatoid Arthritis" in *Medical Care of the Surgical Patient*, Third Edition, Edited by M. Lubin, H.K. Walker and R.B. Smith III, L.B. Lippincott, Philadelphia, 1995

7. Nasser, S. and DeAndrade, J.R.: "Total Knee Joint Replacement" in *Medical Care of the Surgical Patient*, Third Edition, Edited by M. Lubin, H.K. Walker and R.B. Smith III, L.B. Lippincott, Philadelphia, 1995
8. Nasser, S. and Fitzgerald, R.H.: "Infection Following Total Hip Arthroplasty" in *Orthopaedic Knowledge Update: Hip and Knee Reconstruction*; American Academy of Orthopaedic Surgeons, Chicago, 1995
9. Nasser, S. and Gladu, R.: "Hip and Knee Pain" in *When to Call the Surgeon in Primary Care Medicine*, Edited by R.C. Kozol, D. Fromm and J. Konen; F.A. Davis Co., Philadelphia, 1999
10. Nasser, S.: "Biology of Foreign Bodies: Tolerance, Osteolysis and Allergy" in *Total Knee Arthroplasty*, Edited by J. Bellemans, M.D. Ries and J. Victor; Springer -Verlag, Heidelberg, 2005

#### **Representative Published Abstracts:**

1. Amstutz H.C., Friscia, D., Larson, K. and Nasser, S.: Warfarin as Prophylaxis for Thromboembolic Disease after Total Hip Replacement. Orthopaedic Transactions (55<sup>th</sup> Annual Meeting of the A.A.O.S.) 34, 1988
2. Amstutz H.C., Nasser, S. and Kabo, J.M.: The ATH Femoral Component: Preliminary Clinical and Radiographic Results. Orthopaedic Transactions (101<sup>st</sup> Annual Meeting of the A.O.A.) 74, 1988
3. Campbell, P.A., Namba, R.S., Kilgus, D.J., Kossovsky, N., Nasser, S. and Amstutz, H.C.: Bone Ingrowth in Human Porous Surface Replacements. Transactions of the 35<sup>th</sup> Annual Meeting of the Orthopaedic Research Society 401, 1989
4. Nasser, S., Lee, Y.F. and Amstutz, H.C.: Direct Exchange Arthroplasty In Thirty Consecutive Septic Total Hip Replacements Without Clinical Failure. Orthopaedic Transactions (56<sup>th</sup> Annual Meeting of the A.A.O.S.) 519, 1989
5. Nasser, S., Amstutz, H.C., Campbell, P.A., Kilgus, D.J. and Kabo J.M.: Wear Debris Induced Osteolysis in Retrieved Porous Surface Replacements. Orthopaedic Transactions (102<sup>nd</sup> Annual Meeting of the A.O.A.) 574, 1989

6. Campbell, P.A, Nasser, S., Millett, D. and Amstutz, H.C.: A Study of the Effects of Polyethylene Wear Debris in Cemented and Uncemented Implants. Transactions of the 36<sup>th</sup> Annual meeting of the Orthopaedic Research Society 441, 1990
7. Nasser, S., Amstutz, H.C. and Dorey, F.J.: Aseptic Loosening of Cemented T-28 Acetabular Components in Patients Greater than 60 years of Age. Orthopaedic Transactions (57<sup>th</sup> Annual Meeting of the A.A.O.S.) 608, 1990
8. Luetzow, W.F., Markolf, K.L., Nasser, S. and Amstutz H.C.: Initial Stability of the Greater Trochanter Using Newer methods of Reattachment. Transactions of the 37<sup>th</sup> Annual Meeting of the Orthopaedic Research Society 508, 1991
9. Wooley, P.H., Nasser, S. and Whalen, J.D.: Antibodies Reactive with Polyethylene Bound Proteins: A Role in Aseptic Loosening? Arthritis and Rheumatism 37:S273, 1994
10. Wooley, P.H., Nasser, S., Whalen, J.D. and Fitzgerald, R.F.: Antibodies Reactive with Polyethylene Bound Proteins: A Role in Aseptic Loosening? Orthopaedic Transactions (Proceedings of the 62<sup>nd</sup> Annual Meeting of the A.A.O.S.) 512, 1995
11. Wooley, P.H., Whalen, J.D., Nasser, S. and Fitzgerald, R.F.: Antibodies to Implant Bound Proteins Are a Frequent Finding in Patients with Aseptic Loosening of Total Joint Arthroplasties. Arthritis and Rheumatism 37:S164, 1995
12. Wooley, P.H., Mayton, S., Sud, S. and Nasser, S.: Synergistic Inflammatory Responses to Metallic and Polymeric Particles in the Murine Air Pouch Model of Aseptic Loosening. Arthritis and Rheumatism 39:S175, 1997
13. Seiving, A., Nasser, S. and Wooley, P.H.: Macrophage Responses to Polymethyl Methacrylate (PMMA) Particles. Arthritis & Rheumatism, 42:S267, 1999
14. Yang, S.Y., Song, Z., Robbins, P.D., Evans, C.H., Wu, B., Mayton, L, Nasser, S. and Wooley, P.H.: Anti-inflammatory Cytosine Gene Therapy in a Murine Model of Aseptic Loosening. Arthritis & Rheumatism, 42:S284, 1999

15. Vandevorde, P.J., Nasser, S. and Wooley, P.H.: Antibody Responses to Bone Soluble Proteins in Bone Graft Recipients. Arthritis & Rheumatism, 42:S285, 1999
16. Vandevorde, P.J., Nasser, S. and Wooley, P.H.: Antibody Responses to Bone Soluble Proteins in Bone Graft Recipients. Annals of Biomedical Engineering, 29:S148, 2001
17. Sieving, A.L., Wu, B., Mayton, L., Nasser, S. and Wooley, P.H.: The Effect of Aspect Ratio of UHMWPE Wear Debris on the in Vivo Inflammatory Response. Proceedings of the Biomedical Engineering Society Annual Scientific Meeting, Raleigh - Durham, NC, April, 2001
18. Wooley, P.H., VanDeVord, P.J and Nasser, S: Bone Graft rEceipients Develop Antibodies to Bone Soluble Proteins. in Bone Graft Recipients. Transactions of the 49<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, February, 2003.
19. Mendelson, A., Song, Z., Nasser, S. and Wooley, P.H. Cellular Reactivity to Polymethyl-Methacrylate (P.M.M.A.) is Predominantly B-Cell Mediated. Transactions of the 49<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, February, 2003.
20. Sieving, A., Song, Z., Nasser, S. and Wooley, P.H. Cellular Responses to Orthopaedic Wear Debris are Influenced by Particle Morphology. Transactions of the 49<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, February, 2003.
21. Nasser, S. And Poggie, R. Treatment Options for the Patella During Revision Total Knee Arthroplasty. Transactions of the I.S.T.A. 16th. Annual Meeting, San Francisco, CA, September, 2003.
22. Nasser, S. And Poggie, R. Revision and Salvage Patellar Arthroplasty with a Porous Tantalum Implant. Transactions of the A.A.O.S. 70<sup>th</sup> Annual Meeting, San Francisco, CA, March, 2004.
23. Nasser, S. And Poggie, R. Four to Six Year Clinical Results with a Porous Tantalum Patellar Augment/Replacement Prosthesis.. Transactions of the I.S.T.A. 17th. Annual Meeting, Rome, Italy, September, 2004.

24. Nasser, S. and Wooley, P.W., A Prospective Comparison of Alumina and Zirconia Ceramic and Oxinium<sup>®</sup> Total Knee Replacement Femoral Components in Patients with Cobalt-Chrome Hypersensitivity. Transactions of the I.S.T.A. 18th. Annual Meeting, Kyoto, Japan, September, 2005.

### **Representative Presentations at National and International Meetings**

1. Amstutz, H.C., Kabo, J.M., Nasser, S. and Thomas, B.: Comparison of Porous and Cemented Surface Replacement with 2-5 Year Follow-Up. A.A.O.S. 55<sup>th</sup> Annual Meeting, Atlanta, GA, February, 1988
2. Amstutz, H.C., Friscia, D., Larson, K. and Nasser, S.: Warfarin as Prophylaxis for Thromboembolic Disease after Total Hip Replacement. A.A.O.S. 55<sup>th</sup> Annual Meeting, Atlanta, GA, February, 1988
3. Amstutz, H.C., Nasser, S. and Kabo, J.M.: The ATH Femoral Component; Preliminary Clinical and Radiographic Results. Poster and Podium Presentation, International Symposium on Biomaterials, III World Congress, Kyoto, Japan May 1988
4. Amstutz, H.C., Nasser, S. and Kabo, J.M.: The ATH Femoral Component; Preliminary Clinical and Radiographic Results. Poster and Podium Presentation, A.O.A. 101<sup>st</sup> Annual Meeting, Hot Springs, VA, June, 1988.
5. Campbell, P.A., Namba, R.S., Kilgus, D.J., Kossovsky, N., Nasser, S and Amstutz H.C.: Bone Ingrowth in Human Porous Surface Replacements. O.R.S. 35<sup>th</sup> Annual Meeting, Las Vegas, NV, February, 1989.
6. Nasser, S, Lee, Y.F. and Amstutz, H.C.: Direct Exchange Arthroplasty in Thirty Consecutive Septic Total Hip Replacements Without Clinical Failure. A.A.O.S. 56<sup>th</sup> Annual Meeting, Las Vegas, NV, February, 1989.
7. Amstutz, H.C., Nasser, S. and Kabo, J.M.: Results of an "Off-The-Shelf," Press-Fit Femoral Stem. 17<sup>th</sup> Open Scientific Meeting of the Hip Society, Las Vegas, NV, February, 1989.

8. Nasser, S., Campbell, P.A. and Amstutz, H.C.: The Unsuitability of Titanium Alloys as a Bearing Surface in Total Joint Arthroplasty: A Surface Replacement Model. 15<sup>th</sup> Annual Meeting of the Society for Biomaterials, Orlando FL, April 1989
9. Campbell, P.A., Nasser, S., Kossovsky, N. and Amstutz, H.C.: Retrieval Analysis of Femoral Porous-Coated Surface Replacement. 15<sup>th</sup> Annual Meeting of the Society for Biomaterials, Orlando, FL, April, 1989.
10. Nasser, S., Amstutz, H.C., Campbell, P.A., Kilgus, D.J. and Kabo J.M.: Wear Debris Induced Osteolysis in Retrieved Porous Surface Replacements. A.O.A. 102<sup>nd</sup> Annual Meeting, June 1989;
11. Campbell, P.A., Amstutz, H.C. and Nasser, S.: Bearing Surfaces in Total Joint Arthroplasty: A Surface Replacement Model. Fourth Symposium on Biomaterials: Metals and Their Alloys in Orthopaedic Surgery, Göttingen, West Germany, October, 1989.
12. Nasser, S., Amstutz, H.C., Campbell, P.A., Kilgus, D.J. and Kabo J.M.: Wear Debris Induced Osteolysis in Retrieved Porous Surface Replacements. A.A.O.S. 57<sup>th</sup> Annual Meeting, New Orleans, LA, February, 1990
13. Nasser, S., Amstutz, H.C. and Dorey, F.J.: Aseptic Loosening of Cemented T-28 Acetabular Components in Patients Greater Than 60 Years of Age. A.A.O.S. 57<sup>th</sup> Annual Meeting, New Orleans, LA, February, 1990
14. Amstutz, H.C., Nasser, S. and Kabo, J.M.: The "Anthropometric Total Hip:" Surgical Technique (Video). Scientific Presentation, A.A.O.S. 57<sup>th</sup> Annual Meeting, New Orleans, LA, February, 1990
15. Amstutz, H.C., Nasser, S, Kabo, J.M., Kilgus, D.J., Thomas, B.J., Safran, M. and Luetzow W.L.: Evolution and Current Status of Surface Replacement Arthroplasty of the Hip. Scientific Exhibit, A.A.O.S. 57<sup>th</sup> Annual meeting, New Orleans, LA, February, 1990
16. Nasser, S., Campbell, P.A., Kilgus, D.J., Kossovsky, N. and Amstutz, H.C.: Cementless Total Joint Arthroplasty Prostheses with Titanium Alloy Articular Surfaces: a Human Retrieval Analysis. The Charnley Award Paper, 18<sup>th</sup> Open Scientific Meeting of the Hip Society, New Orleans, LA, February, 1990.



17. Campbell, P.A., Nasser, S., Millett, D., and Amstutz, H.C.: A Study of the Effects of Polyethylene wear Debris in Cemented and Uncemented Implants. O.R.S. 36<sup>th</sup> Annual Meeting, New Orleans, LA, February, 1990.
18. Campbell, P.A., Nasser, S., Kossovsky, N, and Amstutz, H.C.: The Mechanism of Production and Histopathological Effects of UHMWPE and Metal Wear Debris in Porous and Cemented Hip Replacements. A.S.T.M. Annual Meeting, Phoenix, AZ, October, 1990.
19. Luetzow, W.F., Markolf, K.L., Nasser, S. and Amstutz, H.C.: Measurement of the Initial Stability of the Greater Trochanter Using newer Methods of Reattachment. 37<sup>th</sup> Annual Meeting of the O.R.S., Anaheim, CA, March, 1991.
20. Dorey, F.J., Amstutz, H.C. and Nasser, S.: The Use of Confidence Intervals in the Evaluation of Orthopaedic Data, A.A.O.S. 58<sup>th</sup> Annual Meeting, Anaheim, CA, March 1991.
21. Slappey, J., Nasser, S., Love, B. and Hutton, W.: Evaluation of Sphericity and Surface Finish of Total Hip Arthroplasty Femoral Heads. Eastern Orthopaedic Association Annual Meeting, San Juan, PR, October 1992.
22. Nasser, S.: Wear of Prosthetic Joints: A Universal Problem. Arthritis of the Hip and Knee - Practical Surgical Management for the 1990's, Orlando FL, October 1992
23. Nasser S: Factors in Press-Fit Total Hip Arthroplasty. Current Concepts in Joint Replacement (The Greenwald Course), Orlando, FL, December, 1992.
24. Flint, R and Nasser, S.: Evaluation of the Strength of Pre-formed PMMA / Bone Cement Composites, A.A.O.S. 60<sup>th</sup> Annual Meeting, San Francisco, CA, February 1993
25. Nasser, S.: Wear of Prosthetic Joints: A Universal Problem. Arthritis of the Hip and Knee - Practical Surgical Management for the 1990's, Vail, CO, March, 1993.

26. Pilcher, R., Love, B., Nasser, S. and Hutton, W.: Sterilization of Ultra-High Molecular Weight Polyethylene with and Without an Oxidation Inhibitor: The Effects on Physical Properties. A.A.O.S. 61<sup>st</sup> Annual Meeting, New Orleans, LA, February, 1994.
27. Grecula, M.J., Grigoris, P., Nasser, S. and Amstutz, H.C.: Durability of Cemented Total Hip Replacements in patients over 60 Years of Age: A 14-Year Survivorship Analysis. A.A.O.S. 61<sup>st</sup> Annual Meeting, New Orleans, LA, February 1994.
28. Rodrigo, J. and Nasser, S.: The Use of Allograft Bone in Total Hip Arthroplasty. Committee on Biological Implants Scientific Exhibit. A.A.O.S. 61<sup>st</sup> Annual Meeting, New Orleans, LA, February, 1994.
29. Nasser, S., Wooley, P.H., Chada, H.S., Smith, F.W. and Fitzgerald, R.F.: Acute Hematogenous Osteomyelitis: A New Model and Initial Immunological Observations. The Musculoskeletal Infection Society Annual Meeting, Snowmass, CO, June, 1994.
30. Amstutz, H.C., Urek, K.J., Nasser, S., and Schmalzried, T.P.: Direct Exchange Arthroplasty for Septic Total Hip Replacement Without Recurrent Infection with Minimum of Five Year Follow-Up, A.A.O.S. 63<sup>rd</sup> Annual Meeting, Atlanta, GA, February, 1996.
31. Morren, R., Wooley, P., Andary, J. and Nasser, S.: Particles of Ultra-High Molecular Polyethylene (UHMWPE) and Polymethyl Methacrylate (PMMA) Provoke Different Cellular Responses in the Murine Air Pouch Model. 42<sup>nd</sup> Annual Meeting of the O.R.S., Atlanta, GA, February, 1996.
32. Poggie, R., Makoto, T., Averill, R. and Nasser, S.: The Effects of Resin Type, Consolidation Method, and Manufacturing Process Parameters on Ultra-high Molecular Weight Polyethylene. Fifth World Biomaterials Congress, San Diego, CA, May, 1998.
33. Placzek, J., Rubal, P., Freeman, C., Keizlig, C., Nasser, S. and Pagett, B.: Long-Term Effectiveness of Translational Manipulation for Adhesive Capsulitis. Annual Meeting, The Mid-America Orthopaedic Association, Acapulco, Mexico, May, 1998.
34. Nasser, S., Hubbard, N. and Poggie, R.: Ultra-High Molecular Weight Polyethylene; History and Current State of the Art. 45<sup>th</sup> Annual Meeting of the O.R.S., Anaheim, CA, February, 1999.

35. VanDeVord, P.J, Nasser, S. and Wooley. P.H.: Antibody Responses to Bone Soluble Proteins in Bone Graft Recipients. American College of Rheumatology 63<sup>rd</sup> Annual Scientific Meeting, San Diego, CA, May, 1999
36. Nasser, S. and Markel, D.: Inexpensive Methods of Cement Containment in the Presence of Cortical Bone Defects. Annual Meeting, The Mid-America Orthopaedic Association, Bermuda, May 1999.
37. Wooley, P.H., Yang, S.-Y., Nasser, S., Song, Z., Robbins, P.D. and Evans, C.H.: Gene Therapy to Regulate the Inflammatory Response to Orthopaedic Biomaterials. Sixth World Biomaterials Congress, Kamuela, HI, May, 2000.
38. Sieving, A.L., Nasser, S. and Wooley, P.H.: Macrophage Responses to Polymethyl Methacrylate Particles. Sixth World Biomaterials Congress, Kamuela, HI, May, 2000.
39. Wooley, P.H., Song, Z., Mayton, L., Nasser, S., Cho, U., Shen, M. and Hsu, S.: Variations in UHMWPE Particle Morphology Results in Different Cellular Responses in the Murine Air Pouch Model. Sixth World Biomaterials Congress, Kamuela, HI, May, 2000.
40. Yang, S., Sieving, S., Nasser, S and Wooley, P.H.: Diverse Cellular and Apoptotic Response to Variant Shapes of UHMWPE Particles in a Murine Model of Inflammation. 47<sup>th</sup> Annual Meeting of the O.R.S., San Francisco, CA, February, 2001.
41. VanDeVord, P.J, Nasser, S. and Wooley. P.H.: Antibody Responses to Bone Soluble Proteins in Bone Graft Recipients. Biomedical Engineering Society Annual Scientific Meeting, Raleigh - Durham, NC, April, 2001
42. Sieving, A.L., Wu, B., Mayton, L., Nasser, S. and Wooley, P.H.: The Effect of Aspect Ratio of UHMWPE Wear Debris on the in Vivo Inflammatory Response. Biomedical Engineering Society Annual Scientific Meeting, Raleigh - Durham, NC, April, 2001
43. Nasser, S.: Orthopaedic Metal Hypersensitivity. The Annual International Knee Meeting, Rome, Italy, September, 2001
44. VanDeVord, P.J, Nasser, S. and Wooley. P.H.: Antibody Responses to Bone Soluble Proteins in Bone Graft Recipients. European Symposium on Bone Graft Techniques in Revision Hip Surgery, Amsterdam, The Netherlands, November, 2001

45. Sieving, A., Wu, B., Mayton, L., Nasser, S. and Wooley, P.H.: Particle Surface Texture and Shape Influence in the Inflammatory Response to Wear Debris. The Society for Biomaterials Annual Meeting, Tampa, FL, April, 2002
46. Nasser, S.: Orthopaedic Metal Hypersensitivity. The Annual International Knee Meeting, Rome, Italy, October, 2002
47. Wooley, P.H., VanDeVord, P.J and Nasser, S: Bone Graft Recipients Develop Antibodies to Bone Soluble Proteins. in Bone Graft Recipients. 49<sup>th</sup> Annual Meeting of the O.R.S., New Orleans, LA, February, 2003.
48. Mendelson, A., Song, Z., Nasser, S. and Wooley, P.H. Cellular Reactivity to Polymethyl-Methacrylate (P.M.M.A.) is Predominantly B-Cell Mediated. 49<sup>th</sup> Annual Meeting of the O.R.S., New Orleans, LA, February, 2003.
49. Sieving, A., Song, Z., Nasser, S. and Wooley, P.H. Cellular Responses to Orthopaedic Wear Debris are Influenced by Particle Morphology. 49<sup>th</sup> Annual Meeting of the O.R.S., New Orleans, LA, February, 2003.
50. Nasser, S. And Poggie, R. Revision and Salvage Patellar Arthroplasty with a Porous Tantalum Implant. I.S.T.A. 16<sup>th</sup>. Annual Meeting, San Francisco, CA, September, 2003.
51. Nasser, S. And Poggie, R. Treatment Options for the Patella During Revision Total Knee Arthroplasty I.S.T.A. 16<sup>th</sup>. Annual Meeting, San Francisco, CA, September, 2003.
52. Bobyn, J.D., Laughlin, D., Hansen, A., O'Keefe, T., Lewis, R., Unger, A., Christie, M. Nasser, S. And Tanzer, M. Clinical Validation of a Structural Porous Biomaterial for Adult Reconstruction. Scientific Exhibit. A.A.O.S.70<sup>th</sup> Annual Meeting, San Francisco, CA, March, 2004.
53. Nasser, S. and Poggie, R. Revision and Salvage Patellar Arthroplasty with a Porous Tantalum Implant. A.A.O.S. 70<sup>th</sup> Annual Meeting, San Francisco, CA, March, 2004.

54. Nasser, S. and Poggie, R. Revision and Salvage Patellar Arthroplasty with a Porous Tantalum Implant. Annual Meeting, The Mid-America Orthopaedic Association, Palm Springs, CA, April 2004.
55. Nasser, S. And Poggie, R. Four to Six Year Clinical Results with a Porous Tantalum Patellar Augment/Replacement Prosthesis. I.S.T.A. 17th. Annual Meeting, Rome, Italy, September, 2004.
56. Poggie, R., Bobyn, J.D., Laughlin, D., Hansen, A., O’Keefe, T., Lewis, R., Unger, A., Christie, M., Nasser, S. And Tanzer, M. Clinical Validation of a Structural Porous Biomaterial for Adult Reconstruction. I.S.T.A. 17th. Annual Meeting, Rome, Italy, September, 2004.
57. Nasser, S. and Wooley, P.W., A Prospective Comparison of Alumina and Zirconia Ceramic and Oxinium<sup>®</sup> Total Knee Replacement Femoral Components in Patients with Cobalt-Chrome Hypersensitivity. Annual Meeting, The Mid-America Orthopaedic Association, Amelia Island, FL, April 2005.
58. Nasser, S. and Wooley, P.W., A Prospective Comparison of Alumina and Zirconia Ceramic and Oxinium<sup>®</sup> Total Knee Replacement Femoral Components in Patients with Cobalt-Chrome Hypersensitivity. I.S.T.A. 18th. Annual Meeting, Kyoto, Japan, September, 2005.
59. Nasser, S., Wooley, P.W., and Mott, M.P., A Prospective Comparison of Alumina and Zirconia Ceramic and Oxinium<sup>®</sup> Total Knee Replacement Femoral Components in Patients with Documented Cobalt-Chrome Immune Hypersensitivity. A.A.O.S. 73<sup>rd</sup> Annual Meeting, San Diego, CA, February, 2007
60. Papannagari, R., Nielsen, J., Sprague, J., Dees, R., Crabtree, P., and Nasser, S., Kinematic and Wear Performance of a new Guided – Motion Hinge Knee Design. I.S.T.A. 21st. Annual Meeting, Seoul, Korea, October, 2008.

### **Representative Presentations at Local and Regional Meetings**

1. Nasser, S. and Kaplan, M.: Lavage Treatment of *Pseudomyxoma Peritonei*. Detroit Surgical Society, Detroit MI, February 1983.

2. Nasser, S. and Morawa, L.: Use of Immediate-Fit Prostheses for Upper Extremity Amputations. Resident Research Presentation, Detroit Academy of Orthopaedic Surgery, Detroit MI, May 1987.
3. Amstutz, H.C., Nasser, S. and Kabo, J.: The ATH Femoral Component; Preliminary Clinical and Radiographic Results. U.C.L.A. Continuing Education Course, Kauai HI, October 1988 and 1989, Harrington Institute Course, Phoenix AZ, November 1988
4. Amstutz, H.C., Nasser, S. and Kabo, J.: The ATH Femoral Component; Preliminary Clinical and Radiographic Results. The Harrington Institute Course, Phoenix AZ, November 1988.
5. Amstutz, H.C., Nasser, S. and Kabo, J.: The ATH Femoral Component; Preliminary Clinical and Radiographic Results. U.C.L.A. Continuing Education Course, Kauai HI, October 1989
6. Nasser, S.: New Methods of Fixation Following Trochanteric Osteotomy. U.C.L.A. Continuing Education Course, Kauai, HI, October, 1989.
7. Nasser, S., Lee, Y.F. and Amstutz, H.C.: Direct Exchange Arthroplasty in Thirty Consecutive Septic Total Hip Replacements Without Clinical Failure. Wayne State University Orthopaedic Alumni Association Meeting, Detroit, MI, September, 1990.
8. Nasser, S., Amstutz, H.C. and Dorey, F.J.: Aseptic Loosening of Cemented T-28 Acetabular Components in Patients Greater Than Sixty Years of Age. Atlanta Orthopaedic Society, Atlanta, GA, May, 1990.
9. Slappey, J. and Nasser, S.: Surface Finish and Sphericity of Total Hip Replacement Femoral Heads: A Comparative Analysis. Winner, Atlanta Orthopaedic Society Annual Residents' Competition, Atlanta, GA, June, 1992.
10. Nasser, S., Wooley, P.H., Chada, H.S., Smith, F.W. and Fitzgerald, R.F.: Acute Hematogenous Osteomyelitis: A New Model and Initial Immunological Observations. Michigan Orthopaedic Society Annual Meeting, Mackinac Island, MI, June, 1994.
11. Wooley, P.H., Nasser, S. and Whalen, J.D.: Failed Prosthetic Implants from Patients with Aseptic Loosening Have Immunoglobulin Bound to the Polyethylene Surface. Michigan Orthopaedic Society Annual Meeting, Mackinac Island, MI, June, 1994.

12. Nasser, S., Wooley, P.H. and Whalen, J.D.: Antibodies Reactive with Polyethylene Bound Proteins: A Role in Aseptic Loosening? Michigan Orthopaedic Society Annual Meeting, Traverse City, MI, June, 1995.
13. Nasser, S.: Work Related Disorders of the Hip: Diagnosis and Treatment. Keynote Speaker, Wayne County Medical Society Special Symposium on Health and the Workplace, Detroit, MI, December 1995.
14. Morren, R., Wooley, P.H., Andary, J. and Nasser, S.: Particles of Ultra-High Molecular Weight Polyethylene (UHMWPE) and Polymethyl Methacrylate (PMMA) Provoke Different Cellular Responses in the Murine Air Pouch Model. Michigan Orthopaedic Society Annual Meeting, Mackinac Island, MI, June, 1996.
15. Nasser, S: The Effects of an Antioxidant on Ultra-High Molecular Weight Polyethylene. Michigan Orthopaedic Society Annual Meeting, Mackinac Island, MI, June, 1996.
16. Nasser, S. and Markel, D.: Inexpensive Methods of Cement Containment in the Presence of Cortical Bone Defects. Michigan Orthopaedic Society Annual Meeting, Mackinac Island, MI, June, 1996.
17. Wooley, P.H., Petersen, S., Song, S. and Nasser, S.: Cellular Immune Responses to Orthopaedic Implant Material Following Cemented Total Joint Replacement. Michigan Orthopaedic Society Annual Meeting, Mackinac Island MI, June, 1996.
18. Nasser, S. and Poggie, R.: Accelerated Aging and Associated Changes in Ultra-High Molecular Weight Polyethylene (UHMWPE) Microstructure as a Function of Resin Type and Consolidation Variables. Michigan Orthopaedic Society Annual Meeting, Boyne Highlands, MI, June, 1997.
19. Poggie, R., Nasser, S., and Kulkarni, S.: Microscopic and Finite Element Analysis of Morse Taper Joints: Micromotion as a Function of Taper Diameter and Modular Head/Neck Extension. Michigan Orthopaedic Society Annual Meeting, Boyne Highlands, MI, June, 1997.

20. Placzek, J., Rubal, P., Freeman, C., Keizlig, C., Nasser, S., and Pagett, B.: Long-Term Effectiveness of Translational Manipulation for Adhesive Capsulitis of the Shoulder. Michigan Orthopaedic Society Annual Meeting, Boyne Highlands, MI, June, 1997.
21. Wooley, P.H., Whalen, J.D., Trumble, S., and Nasser, S.: Antibodies to Implant Bound Proteins in Patients with Aseptic Loosening of Total Joint Arthroplasties. Michigan Orthopaedic Society Annual Meeting, Mackinac Island, MI, June, 1998.
22. Nasser, S. and Kronick, J.L.: The Use of High Dose Antibiotic Functional Spacers in the Treatment of Peri-Prosthetic Joint Infections. Michigan Orthopaedic Society Annual Meeting, Mackinac Island, MI, June, 1998.
23. VanDeVorde, P.J., Wooley, P.H. and Nasser, S.: Antibody Responses to Bone Soluble Proteins in Bone Graft Recipients. Michigan Orthopaedic Society Annual Meeting, Traverse City, MI, June, 1999.
24. Sieving, A., Wooley, P.H. and Nasser, S.: Macrophage Responses to Polymethyl Methacrylate Particles. Michigan Orthopaedic Society Annual Meeting, Traverse City, MI, June, 1999.
25. Canizeres, G., Sieving, A., Wooley, P.H. and Nasser, S.: Timing of Antibiotic Administration During Primary and Revision Total Joint Replacement Arthroplasty. Detroit Academy of Orthopaedic Surgery. Winner Annual Resident Research Competition. Detroit, MI, May, 2000.
26. Canizeres, G., Sieving, A., Wooley, P.H. and Nasser, S.: Timing of Antibiotic Administration During Primary and Revision Total Joint Replacement Arthroplasty. Michigan Orthopaedic Society Annual Meeting, Mackinac Island MI, June 2000.
27. Nasser, S. Metal - on - Metal Bearing Surfaces in Total Hip Replacement Arthroplasty. Current Issues in Orthopaedics. Bellaire, MI, August, 2003
28. Nasser, S. and Poggie, R. Revision and Salvage Patellar Arthroplasty with a Porous Tantalum Implant. Michigan Orthopaedic Society Annual Meeting, Mackinac Island, MI, June, 2004



29. Nasser, S. and Wooley, P.W., A Prospective Comparison of Alumina Ceramic and Oxinium<sup>®</sup> Total Knee Replacement Femoral Components in Patients with Cobalt-Chrome Hypersensitivity. Michigan Orthopaedic Society Annual Meeting, Mackinac Island, MI, June, 2004
30. Nasser, S., A New Method of Treating Chronic Osteomyelitis with Wide Resection and Insertion of a Functional Antibiotic Spacer and Intramedullary Nailing. Michigan Orthopaedic Society Annual Meeting, Mackinac Island, MI, June, 2004

### **Representative Invited “Visiting Professor Lectures”**

1. Cementless Total Joint Arthroplasty Prostheses with Titanium Alloy Articular Surfaces: A Human Retrieval Analysis. Ohio State University Orthopaedic Grand Rounds, Columbus OH, February 1990.
2. Treatment of Septic Joint Replacements. Ohio State Orthopaedic Society, Columbus OH, February 1990.
3. Treatment of Septic Total Joint Replacements: Emory University/Grady Memorial Hospital Orthopaedic Grand Rounds, Atlanta GA, March, 1990.
4. Surface Replacement Arthroplasty of the Hip: A New Look at an Old Idea: Chicago Medical School Orthopaedic Grand Rounds, Chicago IL, December, 1992.
5. Ceramics in Orthopaedic Surgery: Medical University of South Carolina Orthopaedic Grand Rounds, Charleston SC, March, 1993.
6. Orthopaedic Polymers: New News Is Bad News: Orthopaedic Grand rounds, Medical College of Ohio, Toledo OH, February, 1996.
7. Biomaterials Series, Part One: Polymers: Metropolitan Northwest Detroit Residency Program Grand Rounds, Detroit MI; March, 1996.
8. Biomaterials Series, Part Two: Metals: Metropolitan Northwest Detroit Residency Program Grand Rounds, Detroit MI; April, 1997.

9. Orthopaedic Biomaterials: Polymers: The Good, The Bad and the Non-FDA Approved: Michigan State University Combined Orthopaedic Residency Program (COGMET), East Lansing, MI; June, 1997.
10. Biomaterials Series, Part Three: Ceramics and Composites: Metropolitan Northwest Detroit Residency Program Grand Rounds, Detroit, MI; February, 1998.
11. Treatment of Infected Total Joint Replacements. Orthopaedic Grand Rounds, Medical College of Ohio, Toledo, Oh; February, 1999.
12. Total Knee Revision Surgery: the Seven Pillars of Wisdom. Michigan Osteopathic Orthopaedic Society Annual Meeting Keynote Speaker, Southfield, MI; March, 1999
13. The Biomechanics of Total Hip Replacements: Michigan State University Combined Orthopaedic Residency Program (COGMET), East Lansing, MI; March, 2000.
14. The Design of Total Hip Replacement Femoral Prostheses, Michigan State University Combined Orthopaedic Residency Program (COGMET), East Lansing, MI; March 2000.
15. Revision Total Knee Replacements: Michigan State University Combined Orthopaedic Residency Program (COGMET), East Lansing, MI; October, 2000.
16. Treatment of Infected Total Joint Replacements: Michigan State University Combined Orthopaedic Residency program (COGMET), East Lansing, MI; October, 2000.
17. The Science Behind Cemented Femoral Stems: Stanford Orthopedic Association, Palo Alto, CA; December, 2000.
18. New Biomaterials for Total Joint Arthroplasty: Special Symposium Invited Speaker, Michigan Orthopaedic Society Annual Meeting, Traverse City, MI; June, 2001
19. New Biomaterials for Total Joint Arthroplasty. The Indiana Orthopaedic Association, Indianapolis, IN; December, 2003

20. Patellar Reconstruction Problems in the Active Patient. Symposium: Reconstructive Options in the High-Demand Patient. Chicago, IL; July, 2004
21. Metal Hypersensitivity: Diagnosis, Treatments and Alternatives. Symposium: Reconstructive Options in the High Demand Patient. Santa Barbara, CA; June, 2005
22. Orthopaedic Biomaterial Hypersensitivity. Symposium: New Reconstructive Options for the Hip and Knee. Chicago, IL; July, 2005
23. A Prospective Comparison of Ceramics and Composite Materials in the Treatment of the Joint Replacement Patient with Immune Hypersensitivity to Metals. Michigan Orthopaedic Society Annual Winter Meeting, Kalamazoo, MI; November, 2005
24. Metal Ion Release from Total Joint Arthroplasty Prostheses. Annual Symposium: New Reconstructive Options for the Hip and Knee. Chicago, IL; July, 2006
25. A History of Total Hip Replacement Arthroplasty. Orthopaedic Grand Rounds, Medical College of Ohio, Toledo, OH; November, 2007.
26. A Short History of Total Hip Replacement Arthroplasty. Orthopaedic Grand Rounds, Henry Ford Hospital, Orthopaedic Grand Rounds, January, 2008
27. A Short History of Total Knee Replacement Arthroplasty. Orthopaedic Grand Rounds, Medical College of Ohio, Toledo, OH; September, 2008