

Ayaz Amir Biviji, M.D.

Orange Orthopedic Medical Group, Inc.
1310 W. Stewart Dr. Suite 410
Orange, California 92868
(714) 538-8549
(714)538-1547 (fax)

SPECIALTY: Orthopedic surgery (Board Certified)

Lower extremity reconstruction/ joint replacement surgery (minimally/less invasive)

Interests include hip, knee, shoulder injuries and chronic conditions

Hip arthroscopy and partial knee replacement

***Certified to perform hip and knee robotic surgery (MAKOplasty)**

Diplomate of American Board of Orthopedic Surgeons

Member of American Academy of Orthopedic Surgeons

HOSPITAL AFFILIATION (current): Saint Joseph Hospital , Orange

**HOSPITAL AFFILIATION (past): Kaiser Anaheim Medical Center
West Anaheim Medical Center
Orange Coast Memorial Medical Center
Children's Hospital Orange County (CHOC)**

GROUP AFFILIATION: Orange Orthopedic Medical Group, Inc.

**WORK EXPERIENCE: Orange Orthopedic Medical Group, Inc. (April 2006 to present)
Kaiser Permanente Orange County (August 2003 – March 2006)**

EDUCATION:

2002- 2003 **Scripps Clinic, Lower Extremity Reconstruction Fellowship**

1998– 2002 **University of California, San Francisco, Orthopaedic Residency Program**

1997-98 **University of California, San Francisco, General Surgery Internship**

1993-97 **University of California, San Francisco, School of Medicine. M.D. degree, May 1997**

1989-93 **University of Pennsylvania, School of Engineering and Applied Science
Bachelor of Science degree in bioengineering, May 1993.
Graduated Suma Cum Laude (GPA 3.94/4.00) Dean's List 8 semesters**

AWARDS & HONORS:

2000 Richard C. Maurer, M.D. Outstanding Resident Award
2000 Verne T. Inman Lectureship Outstanding Resident Paper Award
1993 Dean's Summer Research Fellowship
1993 Canadian Cystic Fibrosis Foundation Summer Fellowship
1993 Herman P. Schwann Award (Rank no 1. engineer, class of 1993, Univ. of Penn.)
1993 Phi Beta Kappa (Liberal Arts and Science Honor Society)

- 1993 Tau Beta Pi (Engineering Honor Society)
1990 Pi Mu Epsilon (Mathematical Honor Society)

RESEARCH EXPERIENCE:

- 1994 **Orthopaedic Bioengineering Laboratory, UCSF**
Under the supervision of Dr. Jefferey Lotz, quantified the time independent shear modulus of the human annulus fibrosis which was subsequently incorporated into a pre-existing computer model (finite element model) of the human spine as a means of predicting intervertebral disc prolapse..
- 1993 **Pulmonary Defense Group, University of Alberta, Canada**
Under the supervision of Dr. Malcolm King, studied the effects of high frequency oscillation on mucous rheology in order to investigate the possibility of a physical mucolytic. Designed and constructed high frequency oscillation device and conducted subsequent experiments and analysis.
- 1992 **Orthopaedic Bioengineering Laboratory, University of Pennsylvania**
Independent study conducted under the supervision of Dr. John L. Williams. Protocol established for the construction of a thin suitable collagen gel designed for the study of fibroblast mechanics.
- 1990 **Department of Pathology, University of Pennsylvania**
Under the supervision of Dr. Paul Randazzo, studied the effects of orthovanadate on phosphoinositide metabolism in fibroblast cells *in vitro*.

PUBLICATIONS:

- 2006 **Biviji A**, Colwell C. Modular Head and Liner Exchange for the Unstable Total Hip Replacement. (submitted to JBJS-A for publication)
- 2002 **Biviji A**, Paiement G. *Musculoskeletal Manifestations of Human Immunodeficiency Virus Infection*. Accepted for publication in JAAOS (Sept/Oct) issue 2002
- 2000 **Biviji A**, Paiement G. *An Association between Protease inhibitors and Avascular Necrosis of the Femoral Head in HIV positive Patients*. Submitted for publication.
- 2000 Fujita Y, Wagner D.R., **Biviji A**, Duncan N, Lotz J.C., *Anisotropic Shear Behavior of the Annulus Fibrosus*. Medical Engineering and Physics 22 (2000) 349-57
- 1999 **Biviji A**, Paiement G. *Paracapsular Abscesses: A Diagnostic Dilemma*. Submitted for publication
- 1992 Tomkiewicz RP, **Biviji AA**, King M. *Effects of Oscillating Air Flow on the Rheological Properties and Clearability of Mucous Gel Simulants*. Biorheology, vol 31(5).
- 1990 Randazzo PA, Olsham JS, **Biviji AA**. *The Effect of Orthovanadate on Phosphoinositide Metabolism in NIH 3T3 Fibroblasts*. Archives of Biochemistry and Biophysics, Vol 292(1).

PRESENTATIONS:

- 2004 **Biviji A**, Colwell C. Modular Head and Liner Exchange for the Unstable Total Hip Replacement. AAOS poster presentation (San Francisco, California)

RELATED EXPERIENCE:

- 2000 Guest speaker at San Francisco Community Consortium, *Musculoskeletal Manifestations of HIV infection*.
- 1993 Novel wheelchair design and construction (University of Pennsylvania, class of 1993).

Senior design project.