

## Publications and Presentations

**Name:** James B. Grimes, M.D.

### **Education:**

B.A., Biology, University of Kansas, Lawrence, 1975

M.D., Cornell University Medical College, New York, 1979

### **Graduate Hospital Clinical Experience:**

Surgical Intern, Barnes Hospital/Washington University, St. Louis, Missouri, 1979-1980

Orthopaedic Surgery Resident, Barnes Hospital/Washington University, St. Louis, Missouri, 1980-1984

Adult Reconstructive Fellowship, Leo A. Whiteside, MD, DePaul Hospital, St. Louis, Missouri, 1984-1985

### **Licensure:**

California, 1985

**Certification:**

National Board of Medical Examiners, 1980

American Board of Orthopaedic Surgery, 1987

American Board of Orthopaedic Surgery, recertified 1997, 2007

**Hospital Appointments:**

Bakersfield Heart Hospital

San Joaquin Community Hospital

Physicians Plaza Surgical Center

**Memberships:**

American Academy of Orthopaedic Surgeons

American Association of Hip and Knee Surgeons

California Medical Association

California Orthopedic Association

International Society for Technology in Arthroplasty

Orthopedic Research Society

## **Publications:**

1. Grimes JB, Abel RM: Acute hemodynamic effects of intravenous fat emulsion in dogs. *J Parenteral Enteral Nutrition* 3:40-44, 1979
2. Grimes JB, Blair VP 3<sup>rd</sup>, Gilula LA: Roentgen rounds #81. Posteromedial bowing of the tibia. *Orthop Rev.* 1986 Apr; 15(4):249-55.
3. Whiteside LA, Grimes JB, Amador DD: The posterior tibial rim: its effect on stability and kinematics in total knee replacement. *Proceedings of the Knee Society, 1985 and 1986*, Rand J and Dorr L (ed.), Aspen Publishers, Rockville, MD, 1986

## **Abstracts:**

1. Grimes JB: Long-term femoral neck densification with prosthetic stems perforating the posterolateral shaft cortex. The 15th Annual Symposium of the International Society for Technology in Arthroplasty, September, 2002, Oxford, England
2. Grimes JB, Boozari H: Complex loading of the proximal femur produces predominantly compression strain distribution. The 15th Annual Symposium of the International Society for Technology in Arthroplasty, September, 2002, Oxford, England
3. Grimes JB: Restoration of proximal femoral strain with a novel trajectory-matched THR prosthesis. The 15th Annual Symposium of the International Society for Technology in Arthroplasty, September, 2002, Oxford, England
4. Grimes JB, Boozari H: Normalization of proximal femoral strain with a trajectory-matched THA component. The 51st Annual Meeting of the Orthopaedic Research Society, Washington, D.C., February 20-23, 2005.
5. Grimes JB, Boozari H: Complex *in vitro* loading of proximal femur minimizes bending. The 51st Annual Meeting of the Orthopaedic Research Society, Washington, D.C., February 20-23, 2005.
6. Grimes JB, Boozari H: Initial torsional stability of partially splined transcortical THA femoral stems. 52nd Annual Meeting of the Orthopaedic Research Society, Chicago, February 20-23, 2006.
7. Grimes JB: Does deformation of metal-on-metal acetabular components contribute to early failure? International Society for Technology in Arthroplasty 22<sup>nd</sup> Annual Congress, Congress, Big Island, Hawaii, October 22-24, 2009
8. Grimes JB: Trajectory-matched total hip arthroplasty femoral component: strain distribution and seven year clinical results. International Society for Technology in Arthroplasty 22<sup>nd</sup> Annual Congress, Big Island, Hawaii, October 22-24, 2009

9. Grimes JB: Does deformation of metal-on-metal acetabular components contribute to early failure? American Association of Hip and Knee Surgeons, Dallas, Texas, November 6-8, 2009
10. Grimes JB: Reclassification of metal-metal bearings based on operational clearance. 56<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, New Orleans, March 6-9, 2010
11. Grimes JB, Haider H, Weisenburger JN, Langton DJ, Joyce TJ: Negative net clearance of large diameter metal-metal bearings is associated with early clinical failure. 57<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, Long Beach, January 13-16, 2011

**Presentations:**

1. Grimes JB, Abel RM: Acute hemodynamic effects of intravenous fat emulsion in dogs. Am Soc Parenteral Enteral Nutrition, Houston, Texas, January 17, 1978
2. Grimes JB: Biomechanics of instrumentation of the spine. Spine Symposium, Shriner's Hospital, St. Louis, Missouri, May 4, 1982
3. Grimes JB, Whiteside LA: The Q-angle as a determinant of transverse rotation of the tibia: anatomical, radiographic and biomechanical correlation. Open Meeting of the Knee Society, New Orleans, February 26, 1986
4. Grimes JB: Advances in joint replacement surgery. Medical Lecture Series, Bakersfield College, Bakersfield, California, April 3, 1986
5. Grimes JB: Long-term femoral neck densification with prosthetic stems perforating the posterolateral shaft cortex. The 15th Annual Symposium of the International Society for Technology in Arthroplasty, September, 2002, Oxford, England
6. Grimes JB, Boozari H: Complex loading of the proximal femur produces predominantly compression strain distribution. The 15th Annual Symposium of the International Society for Technology in Arthroplasty, September, 2002, Oxford, England
7. Grimes JB: Does deformation of metal-on-metal acetabular components contribute to early failure? International Society for Technology in Arthroplasty 22<sup>nd</sup> Annual Congress, Big Island, Hawaii, October 23, 2009
8. Grimes JB: Does deformation of metal-on-metal acetabular components contribute to early failure? 19<sup>th</sup> Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, Texas, November 7, 2009
9. Grimes JB: Negative net clearance of large diameter metal-metal bearings is associated with early clinical failure. Donaldson Arthritis Research Foundation 12<sup>th</sup> Annual Update in Hip & Knee Arthroplasty and Bearing Surfaces, Indian Wells, California, October 6, 2010

10. Grimes JB: Negative net clearance of large diameter metal-metal bearings is associated with early clinical failure. ASTM Workshop on Metal-on-Metal Total Hip Replacement Devices, Anaheim, California, May 17, 2011

**Posters:**

1. Grimes JB: Long-term femoral neck densification with prosthetic stems perforating the posterolateral shaft cortex. The 15th Annual Symposium of the International Society for Technology in Arthroplasty, September, 2002, Oxford, England

2. Grimes JB, Boozari H: Complex loading of the proximal femur produces predominantly compression strain distribution. Grimes, J.B. and. The 15th Annual Symposium of the International Society for Technology in Arthroplasty, September, 2002, Oxford, England

3. Grimes JB: Restoration of proximal femoral strain with a novel trajectory-matched THR prosthesis. The 15th Annual Symposium of the International Society for Technology in Arthroplasty, September, 2002, Oxford, England

4. Grimes JB, Boozari H: Normalization of proximal femoral strain with a trajectory-matched THA component. The 51st Annual Meeting of the Orthopaedic Research Society, Washington, D.C., February 20-23, 2005.

5. Grimes JB, Boozari H: Complex *in vitro* loading of proximal femur minimizes bending. The 51st Annual Meeting of the Orthopaedic Research Society, Washington, D.C., February 20-23, 2005.

6. Grimes JB, Boozari H: Initial torsional stability of partially splined transcortical THA femoral stems. 52nd Annual Meeting of the Orthopaedic Research Society, Chicago, February 20-23, 2006.

7. Grimes JB: Trajectory-matched total hip arthroplasty femoral component: strain distribution and seven year clinical results. International Society for Technology in Arthroplasty 22<sup>nd</sup> Annual Congress, Big Island, Hawaii, October 22-24, 2009

8. Grimes JB: Reclassification of metal-metal bearings based on operational clearance. 56<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, New Orleans, March 6-9, 2010

9. Grimes JB, Haider H, Weisenburger JN, Langton DJ, Joyce TJ: Negative net clearance of large diameter metal-metal bearings is associated with early clinical failure. 57<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, Long Beach, January 13-16, 2011

## **Awards/Recognition**

### Poster Award

Grimes JB: Trajectory-matched total hip arthroplasty femoral component: strain distribution and seven year clinical results. International Society for Technology in Arthroplasty, 22<sup>nd</sup> Annual Congress, Big Island, Hawaii, October 22-24, 2009

Santore, R: Highlights of Hip Research from the 2011 Orthopaedic Research Society: Grimes JB, Haider H, Weisenburger JN, Langton DJ, Joyce TJ: Negative net clearance of large diameter metal-metal bearings is associated with early clinical failure. 2011 Open Meeting of the Hip Society and AAHKS, San Diego, CA, February 19, 2011

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