

**ORTHOPAEDIC GRAND ROUNDS CONFERENCE**

Wednesday, May 24, 2017  
 103 Bryan Research Building  
 6:30 A.M. – 7:30 A.M.

- 6:30-6:50 A.M. **An Overview of Medial Gastrocnemius Injuries AKA “Tennis Leg.” – Tyler J. Vovos, M.D.**  
 6:50-7:10 A.M. **Modern Materials in THA: Femoral Heads - Benjamin M. Wooster, M.D.**  
 7:10-7:30 A.M. **Patellar Clunk Syndrome - Kwadwo A. Owusu-Akyaw, M.D.**



**Joint Accreditation Statement:** In support of improving patient care, the Duke University Health System Dept of Clinical Education & Professional Development is accredited by the American Nurses Credentialing Center (ANCC), the Accreditation Council for Pharmacy Education (ACPE), and the Accreditation Council for Continuing Medical Education (ACCME), to provide continuing education for the health care team.

**Credit Designation Statement:** Duke University Health System Dept of Clinical Education and Professional Development designates this educational activity for a maximum of 1 AMA PRA Category 1 Credit(s). Physicians should claim only credit commensurate with the extent of their participation in the activity.  
 Faculty, Physician Assistants, and Area Orthopaedists are eligible to receive CME credits for this activity; however, they must sign-in on the attendance sheets provided. **In order to remain CME compliant, all speakers must sign a Faculty Disclosure Form.**  
 Please contact Ms. Sharon Long, CME Associate for Orthopaedic Surgery at [Sharon.Long@mc.duke.edu](mailto:Sharon.Long@mc.duke.edu) or (919) 684-3170.

**Summary of Faculty Disclosure/Planning Committee:** The Following speakers and/or planning members have indicated that they have relationship(s) with industry to disclose:

<b>WEDNESDAY, May 24, 2017</b>		
<b>Core Rounds</b>	7:30 – 8:20 A.M.	103 Bryan Research Building
<i>Adhesive Capsulitis – Lee H. Diehl, M.D.</i>		
<b>Hand and Upper Extremity Anatomy Lab</b>	5:30 – 7:00 P.M.	0044A Duke Clinic Bldg.
<i>Hemi-Hamate Reconstruction – Suhail K. Mithani, M.D.</i>		
<b>THURSDAY, May 25, 2017</b>		
<b>Fracture/Trauma Board Rounds</b>	6:00 – 6:30 A.M.	1515 Duke North Radiology
<b>Fracture/ Trauma Conference</b>	6:30 – 7:00 A.M.	1515 Duke North Radiology
<i>Midfoot Fractures/Injuries</i>		
<b>Hand/ Upper Extremity Radiology Conference [1<sup>st</sup>]</b>	6:30 – 7:30 A.M.	1512 Duke North Radiology
<b>Foot and Ankle MRI Conference [2<sup>nd</sup> and 4<sup>th</sup>]</b>	6:30 – 7:30 A.M.	2125 ASC Conference Room
<b>Orthopaedic Pediatric and Journal Club Conference</b>	7:30 – 8:30 A.M.	107 Lenox Baker Children’s Hospital
<b>Musculoskeletal Histopathology Conference</b>	7:45 – 8:45 A.M.	2-2 Cancer Center
<b>Core Skills</b>	5:30 – 7:30 P.M.	0101A Duke Clinic Bldg. or Trent Semans Center
<i>Cancelled</i>		
<b>FRIDAY, May 26, 2017</b>		
<b>Adult Reconstruction Indications Conference</b>	6:30 – 8:00 A.M.	2001 Duke North
<b>Foot &amp; Ankle Indications Conference</b>	6:30 – 7:30 A.M.	7683A HAFS Building, 7 <sup>th</sup> Floor
<b>Hand Surgery Indications Conference</b>	6:30 – 7:15 A.M.	2125 ASC Conference Room
<b>Spine Case Conference</b>	6:30 – 7:30 A.M.	1N07 – Cancer Center Radiology Conference Room
<b>Sports Medicine Team Meeting – Faculty and Fellows</b>	6:15 – 7:00 A.M.	Stedman Auditorium 3475 Erwin Road
<b>Sports Medicine Conference</b>	7:00 – 8:30 A.M.	Stedman Auditorium 3475 Erwin Road
<i>Elbow Injury in Sports/UCL Rehab – David S. Ruch, M.D. and Sarah Parker, P.T.</i>		
<b>Sports Medicine Cadaver Lab</b>	9:30 A.M. – 2:00 P.M.	0044A Human Fresh Tissue Lab
<b>NEXT WEEK</b>		
<b>MONDAY, May 29, 2017</b>		
<b>Core Interactive</b>	6:30 – 7:00 A.M.	3 <sup>rd</sup> Floor Classrooms, Trent Semans Center
<i>No Conference</i>		
<b>Pediatric Orthopaedic Indications Conference</b>	6:15 – 7:15 A.M.	2902 Children’s Health Center
<b>Foot and Ankle Conference</b>	6:30 – 7:15 A.M.	2125 ASC Conference Room
<i>Patient Safety Conference – Andrew R. Harston, M.D., Ryan P. Mulligan, M.D., Matthew G. Stewart, M.D.</i>		
<b>Spine Preop Conference 2<sup>nd</sup> and 4<sup>th</sup></b>	7:15 – 7:45 A.M.	1512 Duke North Radiology
<b>TUESDAY, May 30, 2017</b>		
<b>Specialty Core</b>	6:15 – 7:15 A.M.	Trent Semans Center Great Learning Hall
<i>Forearm Fractures &amp; Instability – Marc J. Richard, M.D.</i>		
<b>Hand and Upper Extremity Conference</b>	6:30 – 7:15 A.M.	0400 North Pavilion, Lower Level
<i>See Specialty Core</i>		
<b>Musculoskeletal Radiology-Pathology Conference</b>	7:30 – 8:30 A.M.	1512 Duke North Radiology
<b>ANNOUNCEMENTS</b>		
May 31, 2017: State of Duke Orthopaedic Program – Dr. Benjamin A. Alman		
June 7, 2017: No Grand Rounds due to Department Photograph		
June 28, 2017: In lieu of Grand Rounds - Annual Mandatory Resident Orientation for Rising PGY 2-5 Residents, 103 Bryan Research Building, 6:30-8:00 AM		
July 5, 2017: No Grand Rounds		

# REFERENCES – GRAND ROUNDS CONFERENCE

## An Overview of Medial Gastrocnemius Injuries AKA “Tennis Leg.” – Tyler J. Vovos, M.D.

- Antignani PL, Todini AR, Di Fortunato T, Bartolo M. The syndrome of the “coup de fouet”. Is it always a benign disease? *Dermatol Surg.* 1995 Oct;21(10):872-5.
- Bianchi S, Martinoli C, Abdelwahab IF, Derchi LE, Damiani S. Sonographic evaluation of tears of the gastrocnemius medial head (“tennis leg”). *Journal of ultrasound in medicine : official journal of the American Institute of Ultrasound in Medicine.* 1998 Mar;17(3):157-62. Epub 1998/03/26.
- Delgado GJ, Chung CB, Lektrakul N, Azocar P, Botte MJ, Coria D, et al. Tennis leg: clinical US study of 141 patients and anatomic investigation of four cadavers with MR imaging and US. *Radiology.* 2002 Jul;224(1):112-9. Epub 2002/07/02.
- Jarolem KL, Wolinsky PR, Savenor A, Ben-Yishay A. Tennis leg leading to acute compartment syndrome. *Orthopedics.* 1994 Aug;17(8):721-3. Epub 1994/08/01.
- Kwak HS, Han YM, Lee SY, Kim KN, Chung GH. Diagnosis and follow-up US evaluation of ruptures of the medial head of the gastrocnemius (“tennis leg”). *Korean journal of radiology.* 2006 Jul-Sep;7(3):193-8. Epub 2006/09/14.

## Modern Materials in THA: Femoral Heads - Benjamin M. Wooster, M.D.

- Pramanik S, Agarwal AK, Rai KN. Chronology of total hip joint replacement and materials development. *Trends Biomater Artif Organs.* 2005; 19(1): 15-26
- Ravi B, Croxford R, Reichmann VM, Losina E, Katz J, Hawker G. The changing demographics of total joint arthroplasty recipients in the US and Ontario from 2001 to 2007. *Best Practices & Res Clin Rheum.* 2012; 26:637-647.
- Lehil MS, Bozic KJ. Trends in total hip arthroplasty implant utilization in the United States. *J Arthroplasty.* 2014; 29(10): 1915-1918.
- Hamid Reza Seyyed Hosseinzadeh, Alireza Ejazi and Ali Sina Shahi (2012). The Bearing Surfaces in Total Hip Arthroplasty – Options, Material Characteristics and Selection, *Recent Advances in Arthroplasty*, Dr. Samo Fokter (Ed.), InTech, DOI: 10.5772/26362.
- Gandhe A, Grover M. Head size, does it matter? *Curr Orthop.* 2008; 22:155-164.

## Patellar Clunk Syndrome - Kwadwo A. Owusu-Akyaw, M.D.

- Hozack WJ, Rothman RH et al. The Patellar Clunk Syndrome: A Complication of Posterior Stabilized Total Knee Arthroplasty. *Clin Orthop Relat Res.* 1989 Apr;(241):203-8.
- Conrad DN and DA Dennis. Patellofemoral Crepitus after Total Knee Arthroplasty: Etiology and Preventive Measures. *Clin Orthop Surg.* 2014 Mar; 6(1): 9–19.
- Lucas TS, DeLuca PF, Nazarian DG, Bartolozzi AR and RE Booth. Arthroscopic Treatment of Patellar Clunk. *Clin Orthop Relat Res.* 1999 Oct;(367):226-9.
- Fukunaga K, Kobayashi A et al. The incidence of the patellar clunk syndrome in a recently designed mobile-bearing posteriorly stabilised total knee replacement. *J Bone Joint Surg Br.* 2009 Apr;91(4):463-8.
- Fukunaga K, Kobayashi A et al. The incidence of the patellar clunk syndrome in a recently designed mobile-bearing posteriorly stabilised total knee replacement. *J Bone Joint Surg Br.* 2009 Apr;91(4):463-8.

**DUKE UNIVERSITY HOSPITAL**  
2301 Erwin Road, Durham, NC 27710, 919.684.8111  
Spine Preop Conference [1512, 1<sup>st</sup> Floor]  
Musculoskeletal Radiology-Pathology Conference [1512, 1<sup>st</sup> Floor]  
Fracture/ Trauma Conference [1515, 1<sup>st</sup> Floor]  
Foot & Ankle Indications Conference [7683A, HAFS, 7<sup>th</sup> Floor]  
Comprehensive Hip & Knee Reconstruction Conference [1515, 1<sup>st</sup> Floor]  
Adult Reconstruction Preoperative Conference [1515, 1<sup>st</sup> Floor]  
Hand/Upper Extremity Radiology Conference [1512 1<sup>st</sup> Floor]  
Operating Rooms [3<sup>rd</sup> Floor], 919.681.5155

**NORTH PAVILION/ AMBULATORY SURGERY CENTER**  
2400 Pratt Street, Durham, NC 27705, 919.668.2000  
Foot and Ankle Conference [2125, 2<sup>nd</sup> Floor]  
Foot & Ankle MRI Conference [2125, 2<sup>nd</sup> Floor]  
Hand & Upper Ext. Conference [0400, Lower Level]  
Hand Indications Conference [2125, 2<sup>nd</sup> Floor]  
Operating Rooms [2<sup>nd</sup> Floor], 919.668.2000

**DUKE CLINIC**  
40 Duke Medicine Circle, Durham, NC 27710, 919.684.8111  
Neurosciences/Spine Clinic 1B/1C [1<sup>st</sup> Floor], 613-0444  
Orthopaedic Trauma Clinic 1H [1<sup>st</sup> Floor], 681-2842  
Core Skills [0044A Human Fresh Tissue Lab gr. 3<sup>rd</sup> Floor, Trent Semans]  
Hand & Upper Ext. Anatomy Lab [0101A, Basement, Purple Zone]

**DUKE SPORTS SCIENCES INSTITUTE**  
[CENTER FOR LIVING CAMPUS]  
3475 Erwin Road, Durham, NC 27708  
Sports Medicine Clinic [DSSI Bldg.], 919.684.5888  
Sports Medicine & Journal Club Conferences [Stedman Bldg.]

**LENOX BAKER CHILDREN'S HOSPITAL**  
3000 Erwin Road, Durham, NC 27710  
Pediatric Orthopaedic Clinic [1<sup>st</sup> Floor], 919.684.6669  
Ortho. Pediatric and Journal Club Conference [107, 1<sup>st</sup> Floor]

**DURHAM VA**  
508 Fulton Street, Durham, NC 27705, 919.286.0411  
Orthopaedic Clinic E [1<sup>st</sup> Floor], 919.286.0411 ext. 6248 or 6249  
Operating Rooms [4<sup>th</sup> Floor]

**BRYAN RESEARCH BLDG.**  
Research Drive, Durham, NC  
Grand Rounds Conference [103, 1<sup>st</sup> Floor]

**TRENT SEMANS CENTER**  
8 Searle Center Drive, Durham, NC  
Core Interactive [3<sup>rd</sup> Floor, Trent Semans]  
Core Skills [0101A Duke Clinic Bldg. or 3<sup>rd</sup> Floor, Trent Semans]

**CANCER CENTER**  
20 Duke Medicine Circle, Durham, NC 27710  
Sarcoma Clinic [Level 00, Clinic 1], 668-6668  
Musculoskeletal Histopathology Conference [Level 2, Room 2]  
Spine Case Conference [1N07, 1<sup>st</sup> Floor]

**PG III PARKING**  
North Pavilion (ASC)

**PG II PARKING**  
Duke University Hosp.

**PG I PARKING**  
Duke Medicine Circle

Map of Duke University Medical Center Campus to scale and is intended to approximate building locations. • Fall, 2015  
Legend:   
- Duke Medical Center (Blue)  
- Duke Research (Green)  
- Duke Parking (Purple)  
- Hotels (Yellow)  
- Replant Office [1661, 1<sup>st</sup> Floor]