

# Travis G. Maak, MD

3/30/2016

University of Utah Orthopaedic Surgery

590 Wakara Way

Salt Lake City, UT 84098

(650) 346-4250

[healthcare.utah.edu/orthopaedics/](http://healthcare.utah.edu/orthopaedics/)

[travis.maak@utah.edu](mailto:travis.maak@utah.edu)

Foreign Languages: Spanish

## ACADEMIC APPOINTMENT

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2012-Present Assistant Professor  
Division of Sports Medicine  
Department of Orthopaedic Surgery  
University of Utah Medical Center  
University of Utah School of Medicine  
Salt Lake City, Utah

## EDUCATION

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2001-2006 **Yale University School of Medicine**, New Haven, Connecticut, 06510  
Doctor of Medicine

1997-2001 **Stanford University**, Palo Alto, California, 94305  
Bachelor of Sciences  
Major: Biology with Honors

1993-1997 **Judge Memorial High School**, Salt Lake City, Utah, 84106

## POST GRADUATE EDUCATION AND TRAINING

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2012-2013 **Sports Clinic**, Hannover, Germany  
Traveling Clerkship in Complex Knee Surgery – Focus: Malalignment and Knee Osteotomies  
Mentor: Philip Lobenhoffer

2011-2012 **Hospital for Special Surgery**, New York, New York 10021  
Clerkship in Hip Preservation and Arthroscopy  
Mentor: Bryan T. Kelly

2011-2012 **Hospital for Special Surgery**, New York, New York 10021  
Clinical Fellow in Sports Medicine and Shoulder Surgery

2010-2011 **University of Ghent**, Ghent, Belgium  
Traveling Clerkship in Sports Medicine – Focus: Biologic knee reconstruction and repair  
Mentor: Rene Verdonk

2006-2011 **Hospital for Special Surgery**, New York, New York 10021  
Resident in Orthopaedic Surgery

**New York-Presbyterian Hospital/New York Weill Cornell Center**, Weill Medical College of  
Cornell University, New York, New York 10021  
Clinical Associate in Orthopaedic Surgery

**Memorial Sloan-Kettering Cancer Center**, New York, New York 10021  
Clinical Associate in Orthopaedic Surgery

2006-2007 **New York-Presbyterian Hospital/New York Weill Cornell Center**, Weill Medical College of  
Cornell University, New York, New York 10021  
Intern in General Surgery

2005-2006 **Yale University School of Medicine**, Department of Orthopaedic Surgery – Spine Division, New  
Haven, Connecticut 06510  
Doris Duke Clinical Research Fellow; Mentor: Manohar M. Panjabi, PhD  
Biomechanical manifestations of subclinical cervical spine injury during whiplash in a human  
cadaveric model using 3-dimensional imaging real-time technique

## AWARDS & HONORS

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2014 ISHA Best Basic Science Paper Trainee Award: Wylie J, Jenkins P, Beckmann J, Aoki S, **Maak TG**.  
The risk of ionizing radiation in the imaging evaluation of young adults with hip pain. ISHA, Rio  
de Janeiro, Brazil. October 9-11, 2014.

2013 Sports Health T. David Sisk Award for Best Review Paper: Delos D, **Maak TG**, Rodeo SA. Muscle  
injuries in athletes: Enhancing recovery through scientific understanding and novel therapies.

2012 Emerging Leader – American Orthopaedic Association

2012 AAOS Award of Excellence: Scientific Exhibit: Schrupf M, Dines J, Bedi A, **Maak TG**, Delos D,  
Jones K, Walch G, Dines D. Managing bone loss in anterior instability. AAOS San Francisco, CA.  
February 7-11, 2012.

2011 Trainee Presentation Prize – Finalist, International Society of Hip Arthroscopy, Paris, France.  
October 14-15, 2011

2011 Jean C. McDaniel Award for Excellence in Surgical Skill and Ethics, Hospital for Special Surgery

2006 Alpha Omega Alpha Medical Honor Society

2006 Cum Laude, Yale University School of Medicine

2006 Parker Prize for Superlative Medical Student Performance, Yale University School of Medicine

2006 Dean's Prize for Community Service, Yale University School of Medicine

2005 Farr Research Scholar, Yale University School of Medicine

2001 Honors in Biological Sciences, Stanford University

2001 Deans Award for Academic Excellence, Stanford University

1994 Eagle Scout, Boy Scouts of America

## ADMINISTRATIVE EXPERIENCE

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2014 Utah State Orthopaedic Society Annual Meeting – Course Director

2014-Present NIH PROMIS Sports Activity Function Scale Development Committee - Member

2013-Present University of Utah Sports Medicine Executive Board – Chairman

2013-Present AOSSM Fellowship Oversight Committee – Member  
2013-Present Utah State Orthopaedic Society Governing Board – Member  
2012-Present Knee Clinical Pathway Oversight Committee – Member  
2012-Present University of Utah IRB – Member  
2011-2012 Chief Fellow, Hospital for Special Surgery, New York, NY  
2011-2012 Administrative Fellow, Sports Medicine and Shoulder Service, HSS, New York, NY  
2011-2012 Medical Oversight Board – Member, Hospital for Special Surgery, New York, NY  
2011-2012 House Staff Quality Care Committee – Member, Hospital for Special Surgery, New York, NY  
2009-2011 Alumni Affairs Committee – Member, Hospital for Special Surgery, New York, NY  
2008-2011 Inpatient Service Line Committee – Member, Hospital for Special Surgery, New York, NY  
2006 Medical Student Admissions Committee – Member, Yale School of Medicine, New Haven, CT  
2005 Hunger and Homelessness Auction Committee – Chairman, Yale School of Medicine, New Haven, CT  
2003-2006 Yale New Haven Physicians Council – Member, Yale School of Medicine, New Haven, CT

### TEAM COVERAGE EXPERIENCE

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2014-Present Head Team Physician, **Utah Jazz NBA Basketball Team**, Salt Lake City, UT  
2014-Present Team Physician, **Salt Lake Bees AAA Baseball Team**, Salt Lake City, UT  
2012-Present Team Physician, **University of Utah Athletics**, Salt Lake City, UT  
2013-Present Head Team Physician, **Herriman High School**, Herriman, UT  
2011-2012 Asst. Team Physician, **New York Giants NFL Football Team**, New York Football Giants, NY, NY  
2011-2012 Asst. Team Physician, **Iona College Athletics**, New Rochelle, NY  
2008-2012 Team Physician, **Curtis High School Football**, NY Public School Athletic League, New York, NY

### RESEARCH EXPERIENCE

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THE HOSPITAL FOR SPECIAL SURGERY, DEPARTMENT OF ORTHOPAEDIC SURGERY, THOMAS P. SCULCO, MD (2006-2012)

Computer assisted navigation technical analysis of anterior and posterior cruciate ligament reconstruction, morphology, isometry and impingement; hip abductor dysfunction and gait abnormalities associated with femoroacetabular impingement

YALE UNIVERSITY SCHOOL OF MEDICINE, DEPARTMENT OF ORTHOPEDIC SURGERY, SECTION OF SPINE SURGERY, JONATHAN N. GRAUER, MD (2002-2006)

Effects of GDF-5, OP-1 and healos on posterolateral lumbar fusion in a pseudarthrosis rabbit model

YALE UNIVERSITY SCHOOL OF MEDICINE, DEPARTMENT OF ORTHOPEDIC SURGERY, SECTION OF SPINE SURGERY, MANOHAR M. PANJABI, PhD (2001-2006)

Biomechanical manifestations of subclinical cervical spine injury during whiplash in a human cadaveric model using 3-dimensional imaging real-time techniques.

STANFORD UNIVERISTY SCHOOL OF MEDICINE, DEPARTMENT OF SURGERY, SECTION OF VASCULAR SURGERY, CHRISTOPHER K. ZARINS, MD (1994-1997)

Elastin gene expression during aortic wall remodeling in sustained hypertension using a rat model; aortic intimal injury – a comparison of soft-insert vascular clamps to standard steel clamps in the sheep aorta.

## RESEARCH MENTORSHIP

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2015	Yuki Uemura Ph.D. Candidate In Exercise and Sport Science. Research Project: The relationship of lower extremity eccentric strength and dynamic balance in female collegiate soccer athletes
2014-14	Brenden Klennert M.S. Candidate in Biomechanical Engineering. Research Project Understanding the Mechanics of Focal Chondral Defects in the Hip: A Framework to Advance Treatment Options
2015-2020	Jocelyn ... Ph.D. Candidate in Biomechanical Engineering

## CLINICAL TRIALS

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## GRANTS

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2015	<b>Maak TG</b> , Kapron AL, Weiss J. Understanding the mechanics of focal chondral defects in the hip: A framework to advance treatment options. University of Utah Funding Incentive Seed Grant (\$35,000)
2014	<b>Maak TG</b> , Kapron AL, Weiss J. Understanding the mechanics of focal chondral defects in the hip: A framework to advance treatment options. LS Peery Investigator Grant (\$40,000)
2009	<b>Maak TG</b> , Ranawat AS, Hoenig J, Coleman S, Hillstrom, HJ, Edelstein J, Bachus SI, Kelly BT. Motion and muscle analysis in individuals with femoroacetabular impingement. MAKO Surgical Corporation Research Grant (\$20,000) – Completed
2009	<b>Maak TG</b> , Ranawat AS, Hoenig J, Coleman S, Hillstrom, HJ, Edelstein J, Bachus SI, Kelly, BT. Motion and muscle analysis in individuals with femoroacetabular impingement. Internal Sports Medicine Research Grant (\$35,000) – Completed
2005	<b>Maak TG</b> , Ivancic PC, Tominaga Y, Panjabi MM. Side impact causes multiplanar cervical spine injuries. Doris Duke Clinical Research Fellowship (\$30,000) – Completed
2004	<b>Maak TG</b> , Tominaga Y, Panjabi MM, Ivancic PC. Alar, transverse and apical ligament strain due to head-turned rear impact. The National Institute of Health Student Research Grant (\$5,000) – Completed
1999	<b>Maak TG</b> , Xu C, Lee S, Zarins CK Elastin gene expression during aortic wall remodeling in response to sustained hypertension. Howard Hughes Medical Institute Research Grant (\$5,000) – Completed

## PEER-REVIEWED PUBLICATIONS

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1. **Maak TG**, Wylie JD. Medical Device Regulation: A Comparison of the United States and European Union. JAAOS. 2015 (Accepted)
2. Wylie JD, Abtahi AM, Beckmann JT, **Maak TG**, Aoki SK. Arthroscopic and imaging findings after hip dislocation in patients younger than 25 years of age. J Hip Preserv Surg. 2015 May 29;2(3):303-9.

3. Hanson JA, Kapron AL, Swenson KM, **Maak TG**, Peters CL, Aoki SK. Discrepancies in measuring acetabular coverage: revisiting the anterior and lateral center edge angles. *J Hip Preserv Surg*. 2015 Jun 13;2(3):280-6.
4. Pareek A, Reardon PJ, **Maak TG**, Levy BA, Stuart MJ, Krych AJ. Long-term outcomes after osteochondral autograft transfer: A Systematic review at mean follow-up of 10.2 years. *Arthroscopy*. 2016 Feb 19.
5. Brandenburg JB, Kapron AL, Wylie JD, Wilkinson BG, **Maak TG**, Gonzalez CD, Aoki SK. The Functional and structural outcomes of arthroscopic iliopsoas release. *AJSM*. 2016 Feb 12.
6. Beckman JT, Wylie JD, Potter MQ, **Maak TG**, Greene TH, Aoki SK. Effect of naproxen prophylaxis on heterotopic ossification following hip arthroscopy: A Double-blind randomized placebo-controlled trial. *JBS-Am*. 2015 Dec 16;97(24):2032-7.
7. Krych AJ, Nawabi DH, Farshad-Amacker NA, Jones KJ, **Maak TG**, Potter HG, Williams RJ 3<sup>rd</sup>. Bone marrow concentrate improves early cartilage phase maturation of the scaffold plug: A Comparative magnetic resonance imaging analysis to platelet-rich plasma and control. *AJSM*. 2015 Nov 16.
8. Wylie JD, Hartley MK, Kapron AL, Aoki SK, **Maak TG**. Failures and reoperations after matrix-assisted cartilage repair of the knee: A Systematic review. *Arthroscopy*. 2015 Sep 27.
9. Wylie JD, Beckmann JT, **Maak TG**, Aoki SK. Arthroscopic capsular repair for symptomatic hip instability after previous hip arthroscopy. *AJSM*. 2015 Sep 29.
10. Wylie JD, Hartley MK, Kapron AL, Aoki SK, **Maak TG**. What is the effect of matrices on cartilage repair? A Systematic review. *CORR*. 2015 Jan 21.
11. Kullar RS, Kapron AL, Ihnat D, Aoki SK, **Maak TG**. Acetabular paralabral cyst: an unusual cause of femoral vein compression. *Arthrosc Tech*. 2015 Jan 26;4(1):e35-40.
12. **Maak TG**. CORR Insights: Lateral opening-wedge distal femoral osteotomy: Pain relief, functional improvement and survivorship at 5 years. *CORR*. 2015 Feb 3.
13. Wylie JD, Hartley MK, Kapron AL, Aoki SK, **Maak TG**. What is the effect of matrices on cartilage repair? A Systematic review. *CORR*. 2015 Jan 21.
14. Wylie JD, Beckmann JT, **Maak TG**, Aoki SK. Arthroscopic treatment of mild to moderate deformity after slipped capital femoral epiphysis: Intra-Operative findings and functional outcomes. *Arthroscopy*. 2014 Oct 16.
15. Jimenez CL, Beebe MJ, **Maak TG**, Aoki SK. Acute severe hip pain associated with labral calcific deposition disease. *Orthopedics*. 2014 Dec; 37(12):e1137-40.
16. Beckmann JT, Wylie JD, Kapron AL, Hanson JA, **Maak TG**, Aoki SK. The effect of NSAID prophylaxis and operative variables on heterotopic ossification after hip arthroscopy. *AJSM*. 2014 Mar 24.
17. Potter MQ, Sun GS, Fraser JA, Beckmann JT, Swenson JD, **Maak TG**, Aoki SK. Psychological distress in hip arthroscopy patients affects postoperative pain control. *Arthroscopy*. 2014 Feb;30(2):195-201.

18. Schrupf MA, **Maak TG**, Delos D, Jones KJ, Dines DM, Walch G, Dines JS. The management of anterior glenohumeral instability with and without bone loss: AAOS exhibit selection. *JBS Am.* 2014 Jan 15;96(2):e12.
19. Ozturk BY, **Maak TG**, Fabricant P, Altchek DW, Williams RJ, Warren RF, Cordasco FA, Allen AA. Return to sports after arthroscopic anterior stabilization in patients aged younger than 25 years. *Arthroscopy.* 2013 Dec;29(12):1922-31.
20. Cross MB, Raphael BS, **Maak TG**, Plaskos C, Egidy CC, Pearle AD. Characterization of the orientation of Humphrey's ligament. *Knee.* 2013 May 6;S0968-0160(13). Epub.
21. Delos D, **Maak TG**, Rodeo SA. Muscle injuries in athletes: enhancing recovery through scientific understanding and novel therapies. *Sports Health.* 2013 Jul;5(4):346-52.
22. Kelly BT, **Maak TG**, Larson CM, Bedi A, Zaltz I. Sports hip injuries: assessment and management. *Instructional Course Lectures 01/2013;* 62:515-31.
23. **Maak TG**, Osei D, Delos D, Cross M, Taylor S, Warren RF, Weiland AJ. Peripheral nerve injuries in sports-related surgery: Presentation, evaluation and management. *JBS.* 2012 Aug 15;94(16):e1211-10.
24. Nam D, **Maak TG**, Raphael BS, Kepler C, Warren RF. Rotator cuff tear arthropathy: Evaluation, diagnosis and treatment. *JBS.* 2012 Mar 21;94(6):e34.
25. Fabricant P, **Maak TG**, Cross M, Kelly BT. Avoiding complications in hip arthroscopy. *Operative Techniques in Sports Medicine.* 2011. June ; 19(2):108-113.
26. Bedi A, **Maak T**, Walsh C, Rodeo SA, Grande D, Dines DM, Dines JS. Cytokines in rotator cuff degeneration and repair. *JSES.* 2012 Feb;21(2):218-27.
27. **Maak TG**, Fabricant PD, Wickiewicz TL. Indications for meniscus repair. *Clinics in Sports Medicine.* 2012. Jan; 31(1):1-14. Epub 2011 Oct 11.
28. Iriuchishima T, **Maak TG**, Fu F, Bedi A, Pearle AD. ACL Graft Impingement: Letter to the editor. *AJSM.* 2011. Oct; 39(10):NP3-4.
29. Raphael BR, **Maak TG**, Citak M, Suero E, Pearle AD. From wall graft to roof graft: Reassessment of femoral posterior cruciate ligament positioning. *Am J Orthop.* 2011. Sep; 40(9):479-84.
30. Schrupf MS, **Maak T**, Hammoud S, Craig EV. The glenoid in total shoulder arthroplasty. *Current Reviews in Musculoskeletal Medicine.* 2011 Dec;4(4):191-9.
31. Bedi A, **Maak TG**, Musahl V, O'Loughlin PF, Choi D, Citak M, Cross MB, Pearle AD. Effect of tunnel position and graft size in single-bundle ACL reconstruction: An evaluation of time-zero stability. *Arthroscopy.* 2011. Nov;27(11):1543-51. Epub 2011 Jun 25.
32. Cross MB, Fabricant P, **Maak TG**, Kelly BT. Impingement (Acetabular Side). *Clinics in Sports Medicine.* 2011. Apr;30(2):379-90.

33. **Maak TG**, Marx RG, Wickiewicz T. Management of chronic tibial subluxation in the multiple-ligament injured knee. *Sports Medicine and Arthroscopy Review*. 2011 Jun;19(2):147-52.
34. **Maak TG**, Bedi A, Raphael B, Citak M, Suero EM, Wickiewicz T, Pearle AD. Effect of femoral socket position on graft impingement after anterior cruciate ligament reconstruction. *AJSM*. 2011. May;39(5):1018-23.
35. Bedi A, **Maak TG**, Musahl V, Citak M, O'Loughlin PF, Choi D, Pearle AD. Effect of tibial tunnel position on stability of the knee after anterior cruciate ligament reconstruction. Is the tibial tunnel position most important? *AJSM*. 2011 Feb;39(2):366-73.
36. **Maak TG**, Voos JE, Wickiewicz TL, Warren RF. The effect of tunnel widening in revision anterior cruciate ligament reconstruction. *JAAOS*. JAAOS 2010; 18(11)695-706.
37. Bedi A, Musahl V, O'Loughlin PF, **Maak TG**, Dixon P, Citak M, Pearle AD. A comparison of central anatomical single-bundle anterior cruciate ligament reconstruction and double-bundle anterior cruciate ligament reconstruction on pivot-shift kinematics. *AJSM*. 2010 Sep;38(9):1788-94.
38. Voos JE, Musahl V, **Maak TG**, Wickiewicz TL, Pearle AD. Comparison of tunnel positions in single-bundle anterior cruciate ligament reconstructions using computer navigation. *KSSTA*. 2010 Sep;18(9):1282-9.
39. Barker JU, Drakos MC, **Maak TG**, Warren RF, Williams RJ, Allen AA. The effect of graft selection on the incidence of post-operative infection in anterior cruciate ligament reconstruction. *AJSM*. 2010; Feb; 38(2):281-6.
40. **Maak TG**, Ivancic PC, Tominaga Y, Panjabi MM. Side impact causes multiplanar cervical spine injuries. *J. Trauma*. 2007; Dec; 63:1296-307.
41. **Maak TG**, Grauer JN. The contemporary treatment of odontoid injuries. *Spine*. 2006; 31:S53-60; discussion S1.
42. **Maak TG**, Tominaga Y, Panjabi MM, Ivancic PC. Alar, transverse and apical ligament strain due to head-turned rear impact. *Spine*. 2006; 31:632-8.
43. Magit D, **Maak TG**, Hammouri Q, Raphael BS, Albert TJ, Grauer JN. Healos/recombinant human growth and differentiation factor-5 induces posterolateral lumbar fusion in a New Zealand white rabbit model. *Spine*. 2006; 31:2180-8.
44. Tominaga Y, **Maak TG**, Ivancic PC, Panjabi MM, Cunningham BW. Head-turned rear impact causing dynamic cervical intervertebral foramen narrowing: implications for ganglion and nerve root injury. *J. Neurosurgery Spine*. 2006;4:380-7.
45. Panjabi MM, **Maak TG**, Tominaga Y, Ivancic PC. Dynamic intervertebral foramen narrowing during whiplash. *Spine* 2006;31(5):E128-E34.
46. White AP, **Maak TG**, Prince D, Vaccaro AR, Albert TJ, Hilibrand AS, Grauer JN. OP-1-induced gene expression: Evaluation in a posterolateral spinal pseudarthrosis model. *Spine*. 2006; 31:2550-2555.

47. Panjabi MM, Ivancic PC, **Maak TG**, Tominaga Y, Rubin W. Multiplanar cervical spine injury due to head-turned rear impact. *Spine* 2006;31(4):420-9.
48. Ivancic PC, Panjabi MM, Tominaga Y, Pearson AM, Gimenez SE, **Maak TG**. Spinal canal narrowing during simulated frontal impact. *Eur Spine J.* 2006 Jun;15(6):891-901. Epub 2005 Oct 12.

#### NON-PEER REVIEWED PUBLICATIONS

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1. Xu C, Lee WA, Lee S, **Maak TG**, Fogarty TJ, Zarins CK. "Comparison of 'new Fogarty soft-insert vascular clamps (Novare Surgical)' to 'standard steel vascular clamps'." *Vascular Surgery Review Article*, From the Division of Vascular Surgery, Stanford University Medical Center Supported by Novare Surgical Systems.
2. **Maak TG**, Xu C, Lee BS, Zarins CK. Elastin gene expression during aortic wall remodeling in response to sustained hypertension. *The Stanford Biologist*, Volume 6, 2001.

#### WEB BASED JOURNAL ARTICLES

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1. **Maak TG**, Warren RF, Rodeo S. Meniscal Injury: An Overview. *Hospital for Special Surgery*. [http://www.hss.edu/conditions\\_meniscal-injuries-overview.asp](http://www.hss.edu/conditions_meniscal-injuries-overview.asp)
2. **Maak TG**, Grauer JG. Bone marrow aspirates for spinal fusion. *Orthopedics Hyperguide Online*. Orthobiologics & Pharmacologics, Spine Section, Chapter 3. <http://www.ortho.hyperguides.com/>
3. **Maak TG**, Grauer JN. Understanding Whiplash Injuries. *Understand Spine Surgery.com*. Studies & Articles. [http://www.understandspinesurgery.com/whiplash\\_article.asp](http://www.understandspinesurgery.com/whiplash_article.asp)

#### BOOK CHAPTERS

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1. Raskind JR, **Maak TG**. Complications of Arthroscopic Knee Surgery. Chapman's Comprehensive Orthopaedic Surgery. Chapman MW, James MA editors. (In Press)
2. Beckman JT, **Maak TG**, Aoki SK. Hip Arthroscopy: Peritrochanteric Space Access Beckman J, Maak TG, Aoki SK. Hip Arthroscopy and Hip Joint Preservation Surgery. Nho SJ, Leunig M, Larson CM, Bedi A, Kelly BT editors. New York: Springer. 2014
3. **Maak TG**, Tashjian R. Complications of Ulnar Collateral Ligament Reconstruction. Elbow Collateral Ulnar Ligament Injury: A Guide to Diagnosis and Treatment. Dines J, Altchek DW editors. 2014
4. **Maak TG**, Burks BT. Point Counterpoint: Revision with Open Stabilization. Controversies in Shoulder Instability. Dines J, Dodson C editors. 2014.
5. **Maak TG**, Rodeo SA. Meniscus Injuries. DeLee & Drez's Orthopaedic Sports Medicine, 4e. Miller & Thompson editors. 2013
6. **Maak TG**, Byrd JT. Sport Specific Injuries of the Hip: The Contact Athlete: Football / Rugby. Sports Hip Injuries: Diagnosis and Management. Kelly BT, Larson C, Bedi A editors. 2013.
7. Kelly BT, **Maak TG**, Larson C, Bedi A, Zaltz I. Sports Hip Injuries: Assessment and Management. ICL Chapter 62. AAOS ICL 2013.



8. **Maak TG**, Nemani V, Wickiewicz TL, Rodeo SA. Meniscus Transplant in Revision ACL Reconstruction. Revision ACL Reconstruction: Management and Surgical Technique. Marx R editor. 2013.
9. **Maak TG**, Delos D, Cordasco F. Preoperative Planning for Revision ACL Reconstruction. Revision ACL Reconstruction: Management and Surgical Technique. Marx R editor. 2013.
10. Delos D, **Maak TG**, Warren RF. Posterior Shoulder Instability – Introduction. Getting Back in the Game: Orthopaedic Rehabilitation of the Athlete. Reider B, Davies G, Provencher MT editors. 2012
11. **Maak TG**, Warren RF. Beyond Basic Rehabilitation: Return to Football after Posterior Shoulder Stabilization. Getting Back in the Game: Orthopaedic Rehabilitation of the Athlete. Reider B, Davies G, Provencher MT editors. 2013.
12. **Maak TG**, Fabricant P, Kelly BT. Sports specific injuries of the hip joint. The Young Adult Hip in Sports. Haddad editor. USA: Springer; 2014: 87-106.
13. **Maak TG**, Delos D, Warren RF. Posterior shoulder instability. Video Atlas of Shoulder Surgery. McCann editor. 2012 In Press.
14. **Maak TG**, Delos D, Warren RF. Posterior shoulder instability: Open Repair. Disorders of the Shoulder – 3<sup>rd</sup> Edition. Miniacci T editor. 2012 In Press.
15. **Maak TG**, Wickiewicz TL. Management of chronic fixed posterior tibial subluxation in the multiple ligament injured knee. The Multiple Ligament Injured Knee, Second Edition. Fanelli G editor. 2012
16. Voos JE, **Maak TG**, Williams RJ, Wickiewicz TL. Revision ACL Reconstruction. Surgery of The Knee – 5<sup>th</sup> edition. Scott WN editor. 2012.
17. Kelly BT, **Maak TG**, Cross M, Fabricant P. The Peritrochanteric Compartment. Hip Arthroscopy. Zini and Byrd editors. Italy: Arti Grafiche Editoriali Srl; 2011:249-62.
18. **Maak TG**, Voos JE, Kelly BT. Chapter 16: The Peritrochanteric Compartment. Hip and Pelvis Injuries in Sports Medicine. Guanche C editor. Lippincott Williams & Wilkins 2010.
19. Voos JE, **Maak TG**, Kelly BT. The Peritrochanteric Space. Techniques in Hip Arthroscopy and Joint Preservation Surgery. Sekiya J, Safran M, Ranawat A, Leunig M editors. 2010.
20. **Maak TG**, Grauer JN, Vaccarro AR. Odontoid Fractures. Spine Trauma, Second Edition, Levine AM, Eismont FJ, Garfin SR, Zigler JE eds.

#### ABSTRACTS AND/OR PROCEEDINGS

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1. **Pareek A**, Sanders TL, Obey MR, **Maak TG**, Stuart MJ, Krych AJ. Population-based nonoperative management of osteochondritis dissecans: Progression to osteoarthritis and arthroplasty over a 45-year period. ICRS 2016
2. Kapron AL, Aoki SK, Weiss JA, Jones DL, **Maak TG**. Location, type and severity of chondrolabral damage in FAI patients. ORS, Orlando FL. March 4-9, 2016.
3. Klennert B, Ellis BJ, Kapron A, Kaiser T, Weiss J, **Maak TG**. Understanding the Mechanics of Focal Chondral Defects in the Hip: A Framework to Advance Treatment Options. AAOS, Orlando, FL. March 2-5, 2016.

4. Kapron A, Wylie JD, Aoki S, **Maak TG**. CT Elucidates the Acetabular Clock Face Location of the Sourcil-Edge and Bone-Edge Lateral Center Edge Angle. ISHA, Cambridge, England. September 23-27, 2015.
5. **Maak TG**, Ranawat A, Kraszewski A, Backus S, Hillstrom H, Kelly BT. In Vivo Kinematic and EMG Function of Symptomatic FAI vs. Asymptomatic Controls. ISHA, Cambridge, England. September 23-27, 2015.
6. Klennert B, Ellis, BJ, Kapron A, Kaiser T, Weiss J, **Maak TG**. Understanding the Mechanics of Focal Chondral Defects in the Hip: A Framework to Advance Treatment Options. ISHA, Cambridge, England. September 23-27, 2015.
7. Klennert B, Ellis, BJ, **Maak TG**, Kapron A, Kaiser T, Weiss J. Understanding the Mechanics of Focal Chondral Defects in the Hip: A Framework to Advance Treatment Options. BMES, Tampa, FL. October 7-10, 2015.
8. Klennert B, Ellis, BJ, **Maak TG**, Kapron A, Kaiser T, Weiss J. Understanding the Mechanics of Focal Chondral Defects in the Hip: A Framework to Advance Treatment Options. SB3C, Snowbird, UT. June 17-20, 2015.
9. Kraszewski A, Ranawat A, **Maak TG**, Backus S, Hillstrom H, Kelly BT. In Vivo Kinematic and EMG Function of Symptomatic FAI vs. Asymptomatic Controls. EOA, Wailei-Maui, Hawaii. June 17-20, 2015.
10. Beckman J, Wylie J, **Maak TG**, Aoki SK. The Effect of Naproxen on Heterotopic Ossification Following Hip Arthroscopy: A Randomized Controlled Trial. AAOS, Las Vegas, NV. March 24-28, 2015.
11. Wylie J. **Maak TG**, Aoki SK. Arthroscopic And Imaging Findings After Traumatic Hip Dislocation In Patients Younger Than 25 Years Of Age. AAOS, Las Vegas, NV. March 24-28, 2015.
12. **Maak TG**, Ranawat A, Kraszewski A, Backus S, Hillstrom H, Kelly B. A novel approach in the non-arthritic hip and symptomatic hip with impingement. ISHA, Rio de Janeiro, Brazil. October 9-11, 2014.
13. Wylie J, Jenkins P, Beckmann J, Aoki S, **Maak TG**. The risk of ionizing radiation in the imaging evaluation of young adults with hip pain. ISHA, Rio de Janeiro, Brazil. October 9-11, 2014.
14. Wylie J, Beckmann J, Abtahi A, **Maak TG**, Aoki S. Arthroscopic and imaging findings after traumatic hip dislocation in patients younger than 25 years of age. ISHA, Rio de Janeiro, Brazil. October 9-11, 2014.
15. Beckmann J, Dines J, Bedi A, Wylie J, Holt P, Williams RJ, Wright RW, Aoki SK, **Maak TG**. Osteochondritis dissecans – Etiology, presentation, diagnosis and management in the skeletally immature. AAOS, New Orleans, LA. March 11-15, 2014.
16. Skendzel JG, Weber A, **Maak TG**, Dines J, LaPrade RF, Wojtys EM, Rodeo SA, Bedi A. The role of high tibial osteotomy and distal femoral osteotomy in the unstable and chronic ligament-deficient knee. AAOS, New Orleans, LA. March 11-15, 2014.
17. Potter M, Sun G, Fraser J, Beckmann J, Swenson J, **Maak TG**, Aoki SK. Greater preoperative psychological distress predicts increased use of postoperative fascia iliaca nerve blocks in hip arthroscopy patients. AANA, Hollywood, Florida. May 1-3, 2014

18. Wylie JD, Beckmann JT, **Maak TG**, Aoki SK. "Arthroscopic treatment of femoroacetabular impingement for hip pain after in-situ pinning of slipped capital femoral epiphysis." ISHA, Munich, Germany. October 10-12, 2013.
19. Wylie JD, Beckmann JT, **Maak TG**, Aoki SK "Capsular repair for instability following hip arthroscopy for femoroacetabular impingement: preliminary outcomes and description of surgical technique." ISHA, Munich, Germany. October 10-12, 2013.
20. **Maak TG**, Ranawat A, Kraszewski A, Backus S, Hillstrom H, Kelly BT. A Novel approach to assess dynamic function in the non-arthritic hip. AOSSM, Chicago, IL. July 11-14, 2013.
21. Delos D, Farshad-Amacker N, **Maak TG**, Potter HG, Cordasco FA. A Novel method and classification system for determining the degree of footprint restoration after rotator cuff repair. International Congress on Shoulder and Elbow Surgery. Nagoya, Japan. April 10-12, 2013.
22. **Maak TG**, Poultsides LA, Warme BA, Aoki SK, Peters CL, Sink EL, Kelly BT. The Mechanical etiology of pain in the non-arthritic hip: Presentation, evaluation and management. AAOS Chicago, IL. March 19-23, 2013.
23. Khair MM, Berkes MB, **Maak TG**, Dines DM, Dines J, Lorich DG. Blood supply to the proximal humerus: Implications for fracture reconstruction. AAOS Chicago, IL. March 19-23, 2013.
24. Bedi A, **Maak TG**, Delos D, McCarthy MM, Shubinstein BE, Arendt EA, Altchek DW, Dines J. An Algorithmic approach to the management of recurrent lateral patellar dislocation. AAOS Chicago, IL. March 19-23, 2013.
25. Delos D, **Maak TG**, Jones K, Khair MM, Marx RG, Warren RF. Multiple ligament knee injuries: Diagnosis and treatment of an uncommon but challenging orthopaedic problem. AAOS Chicago, IL. March 19-23, 2013.
26. **Maak TG**, Ranawat A, Kraszewski A, Backus S, Hillstrom H, Kelly BT. A Novel approach to assess dynamic function in the non-arthritic hip. AOA 125<sup>th</sup> Annual Meeting Washington, DC. June 27-30, 2012.
27. Kraszewski A, Ranawat A, **Maak T**, Hillstrom H, Backus S, Kelly B. Dynamic quantification of femoral acetabular impingement during ADLs. Gait and Clinical Movement Analysis Society (GCMAS) Grand Rapids, MI. May 9-12, 2012.
28. **Maak TG**, Ranawat A, Kraszewski A, Backus S, Hillstrom H, Kelly BT. A Novel approach to assess dynamic function in the non-arthritic hip. AAOS San Francisco, CA. February 7-11, 2012.
29. Hammoud S, Voigt C, **Maak TG**, Miller A, Brause B, Warren RF. Infection after shoulder surgery with Propionibacterium acnes. AAOS San Francisco, CA. February 7-11, 2012.
30. Schrupf M, Dines J, Bedi A, **Maak TG**, Delos D, Jones K, Walch G, Dines D. Managing bone loss in anterior instability. AAOS San Francisco, CA. February 7-11, 2012. (Award of Excellence Winner)
31. Jones K, Schrupf M, **Maak TG**, Delos D, Bedi A, Dines D, Dines J. The kinetic chain of overhead throwing: A systematic review of biomechanics and associated pathoanatomy. AAOS San Francisco, CA. February 7-11, 2012.

32. Kraszewski A, Ranawat A, **Maak TG**, Hillstrom H, Backus S, Kelly BT. Dynamic assessment of femoral acetabular impingement. ORS. ORS San Francisco, CA. February 4-7, 2012.
33. Cross MB, Raphael B, **Maak TG**, Plaskos C, Egidy C, Pearle A. Characterization of the orientation and isometry of Humphrey's ligament. ORS San Francisco, CA. February 4-7, 2012.
34. Backus S, **Maak TG**, Kraszewski A, Kelly BT, Hillstrom H, Ranawat A. A Novel approach to assess dynamic function in the non-arthritic hip: Reliability. APTA Combined Sessions Meeting, Chicago, IL, February 8-11, 2012.
35. **Maak TG**, Ranawat A, Kraszewski A, Backus S, Hillstrom H, Kelly BT. A Novel approach to assess dynamic function in the non-arthritic hip. International Society of Hip Arthroscopy, Paris, France. October 14-15, 2011.
36. **Maak TG**, Ranawat A, Kraszewski A, Backus S, Hillstrom H, Kelly BT. A Novel approach to assess dynamic function in the non-arthritic hip. Eastern Orthopaedic Association, Williamsburg, VA. October 19-22, 2011.
37. Hammoud S, Suero EM, **Maak TG**, Rozell JC, Inra ML, Jones K, Pearle AD. Effect of posteromedial corner injuries on tibiofemoral translation in the ACL deficient knee. CAOS-International London, England. June 15-18, 2011.
38. Hammoud S, Suero E, **Maak TG**, Rozell J, Inra M, Pearle AD. Effect of posteromedial corner injuries on tibiofemoral translation in the ACL deficient knee. ISAKOS Rio de Janeiro, Brazil. May 15-19, 2011.
39. Hammoud S, **Maak TG**, Suero E, Rozell J, Inra M, Pearle AD. Effect of flexion contracture on tibiofemoral translation in the ACL deficient knee. ISAKOS Rio de Janeiro, Brazil. May 15-19, 2011.
40. **Maak TG**, Cross MB, Delos D, Taylor SA, Osei D, Bedi A, Warren RF, Weiland AJ. Peripheral nerve injuries in sports-related surgery: Presentation, evaluation and management. American Academy of Orthopaedic Surgery, San Diego, CA February 2011.
41. Nam D, **Maak TG**, Raphael B, Kepler C, Warren RF. Rotator cuff tear arthropathy: Evaluation, diagnosis and treatment. American Academy of Orthopaedic Surgery, San Diego, CA February 2011.
42. Cross MB, **Maak TG**, Nam D, Dy C, Delos D, Reinhardt K, Ranawat A, Pearle AD. The meniscal tear in the varus knee: A multidisciplinary approach. American Academy of Orthopaedic Surgery, San Diego, CA February 2011.
43. Nho S, Delos D, **Maak TG**, Cross MB, Warren RF. Massive rotator cuff tears: An algorithmic approach to treatment. American Academy of Orthopaedic Surgery, San Diego, CA February 2011
44. **Maak TG**, Bedi A, Raphael B, Suero EM, Citak M, Musahl V, Pearle AD. Impingement of the anterior cruciate ligament reconstruction as a function of graft position. Eastern Orthopaedic Association, Naples, FL October 2010.
45. Bedi A, **Maak TG**, Musahl V, O'Loughlin PF, Choi D, Citak M, Pearle AD. The effect of tibial tunnel position on stability of the knee after ACL reconstruction: Is the tibial tunnel position most important? The American Orthopaedic Society for Sports Medicine, Providence, RI July 2010.

46. Bedi A, Musahl V, O'Loughlin PF, **Maak TG**, Dixon P, Citak M, Pearle AD. A comparison of central anatomic single-bundle ACL reconstruction and double-bundle ACL reconstruction on pivot shift kinematics. The American Orthopaedic Society for Sports Medicine, Providence, RI July 2010.
47. Bedi A, Musahl V, O'Loughlin P, **Maak TG**, Choi D, Citak M, Pearle AD. Does graft size matter in ACL reconstruction? A biomechanical evaluation of stability. American Academy of Orthopedic Surgery, New Orleans, LA February 2010.
48. Murowski C, O'Loughlin PF, **Maak TG**, Kennedy JK. Anteromedial impingement in the ankle joint: outcomes following arthroscopy. American Academy of Orthopedic Surgery, New Orleans, LA February 2010.
49. Osei DA, Jones KJ, Shindle MK, **Maak TG**, Ranawat AS, Williams RJ. The role of osteochondral allografts in the treatment of articular cartilage injuries of the knee. American Academy of Orthopaedic Surgery, New Orleans, LA February 2010.
50. Barker JU, Drakos MC, **Maak TG**, Warren RF, Williams RJ, Allen AA. The effect of graft selection on the incidence of post-operative infection in anterior cruciate ligament reconstruction. Eastern Orthopedic Association, Las Vegas, NV, October 2008.
51. Barker JU, Drakos MC, **Maak TG**, Warren RF, Williams RJ, Allen AA. The effect of graft selection on the incidence of post-operative infection in anterior cruciate ligament reconstruction. The effect of graft selection on the incidence of post-operative infection in anterior cruciate ligament reconstruction. American Academy of Orthopedics, Las Vegas, NV February 2009.
52. **Maak TG**, Levine DS. Bilateral avascular necrosis of the talus – Müller-Weiss syndrome. 87<sup>th</sup> Annual Alumni Meeting at the Hospital for Special Surgery Hospital for Special Surgery, New York City, NY, November 2009.
53. **Maak TG**, White AP, Vaccaro AR, Albert TJ, Hilibrand AS, Grauer JN. OP-1-induced gene expression: Evaluation in a posterolateral spinal pseudarthrosis model. Eastern Orthopedic Association, Chesapeake Bay, MD, October, 2005.
54. **Maak TG**, White AP, Vaccaro AR, Albert TJ, Hilibrand AS, Grauer JN. OP-1-induced gene expression: Evaluation in a posterolateral spinal pseudarthrosis model. World Spine III, Rio de Janeiro, Brazil. July, 2005
55. **Maak TG**, White AP, Vaccaro AR, Albert TJ, Hilibrand AS, Grauer JN. OP-1-induced gene expression: Evaluation in a posterolateral spinal pseudarthrosis model. International Society for the Study of the Lumbar Spine, New York, NY, May 2005.
56. **Maak TG**, White AP, Vaccaro AR, Albert TJ, Hilibrand AS, Grauer JN. OP-1-induced gene expression: Evaluation in a posterolateral spinal pseudarthrosis model. North American Spine Society, Chicago, IL October 2004
57. Magit D, **Maak TG**, Hammouri Q, Raphael BS, Albert TJ, Grauer JN. Healos/ rhGDF-5 induced fusion in a rabbit posterolateral lumbar fusion model. Cervical Spine Research Society, San Diego, CA, December, 2005.

58. Magit D, **Maak TG**, Hammouri Q, Raphael BS, Albert TJ, Grauer JN. Healos/ rhGDF-5 induced fusion in a rabbit posterolateral lumbar fusion model. Eastern Orthopedic Association, Chesapeake Bay, MD, July, 2005.
59. White AP, **Maak TG**, Albert TJ, Hilibrand AS, Vaccaro AR, Grauer JN. Osteogenic and angiogenic gene expression upregulated by OP-1 during repair of nicotine-induced rabbit pseudarthroses. The 5th International Conference on Bone Morphogenetic Proteins, September 2004, Nagoya, Japan, September 2004.
60. White AP, **Maak TG**, Albert TJ, Hilibrand AS, Vaccaro AR, Grauer JN. Osteogenic and angiogenic gene expression upregulated by OP-1 during repair of nicotine-induced rabbit pseudarthroses. New Frontiers in Biomechanics Research pre-course to North American Spine Society, Chicago, IL October 2004
61. White AP, **Maak TG**, Albert TJ, Hilibrand AS, Vaccaro AR, Grauer JN. Osteogenic and angiogenic gene expression upregulated by OP-1 during repair of nicotine-induced rabbit pseudarthroses. International Society for the Study of the Lumbar Spine, New York, NY, May 2005.
62. White AP, **Maak TG**, Albert TJ, Hilibrand AS, Vaccaro AR, Grauer JN. Osteogenic and angiogenic gene expression upregulated by OP-1 during repair of nicotine-induced rabbit pseudarthroses. Eastern Orthopaedic Association, Cambridge, MD, October 2005
63. White AP, **Maak TG**, Albert TJ, Hilibrand AS, Vaccaro AR, Grauer JN. Osteogenic and angiogenic gene expression upregulated by OP-1 during repair of nicotine-induced rabbit pseudarthroses. New England Orthopaedic Society, Boston, MA, November 2005.
64. White AP, **Maak TG**, Albert TJ, Hilibrand AS, Vaccaro AR, Grauer JN. Osteogenic and angiogenic gene expression upregulated by OP-1 during repair of nicotine-induced rabbit pseudarthroses. American Academy of Orthopaedic Surgeons, Chicago 2006.
65. White AP, **Maak TG**, Albert TJ, Hilibrand AS, Vaccaro AR, Grauer JN. Osteogenic and angiogenic gene expression upregulated by OP-1 during repair of nicotine-induced rabbit pseudarthroses. OREF New England Resident Research Competition, Boston, MA, May 2006.
66. White AP, **Maak TG**, Albert TJ, Hilibrand AS, Vaccaro AR, Grauer JN. Osteogenic and angiogenic gene expression upregulated by OP-1 during repair of nicotine-induced rabbit pseudarthroses. OREF New York Resident Research Competition, New York, NY, May 2006.
67. Magit D, **Maak TG**, Hammouri Q, Raphael BS, Albert TJ, Grauer JN. Healos/ rhGDF-5 induced fusion in a rabbit posterolateral lumbar fusion model. The 12<sup>th</sup> International Meeting on Advanced Spine Techniques, Fairmont Banff Springs, Canada, July, 2005.
68. Magit D, **Maak TG**, Hammouri Q, Raphael BS, Albert TJ, Grauer JN. Healos/ rhGDF-5 induced fusion in a rabbit posterolateral lumbar fusion model. International Society for the Study of the Lumbar Spine, New York, NY, May 2005.
69. Magit D, **Maak TG**, Hammouri Q, Raphael BS, Albert TJ, Grauer JN. Healos/ rhGDF-5 induced fusion in a rabbit posterolateral lumbar fusion model. North American Spine Society, Philadelphia, PA, September, 2004

70. Magit D, **Maak TG**, Hammouri Q, Raphael BS, Albert TJ, Grauer JN. Healos/ rhGDF-5 induced fusion in a rabbit posterolateral lumbar fusion model. Scoliosis Research Society 40<sup>th</sup> Annual Meeting, Miami, FL, October, 2005.
71. Magit D, **Maak TG**, Hammouri Q, Raphael BS, Albert TJ, Grauer JN. Healos/ rhGDF-5 induced fusion in a rabbit posterolateral lumbar fusion model. Eastern Orthopaedic Association, Cambridge, MD, October 2005.
72. **Maak TG**, Xu C, Lee S, Zarins CK. Elastin expression during aortic wall remodeling in response to sustained hypertension. 87<sup>th</sup> Clinical Congress of the American College of Surgeons, New Orleans, LA, October, 2001.

### INVITED ORAL PRESENTATIONS

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1. **Maak TG**. The Acetabulum: Hammer and Nail or Bring Your Tool Belt? Metcalf / AANA Arthroscopic Surgery Seminar. Snowbird, Utah. March 4-7, 2015.
2. **Maak TG**. The Labrum: Resect, Repair, or Reconstruct. Metcalf / AANA Arthroscopic Surgery Seminar. Snowbird, Utah. March 4-7, 2015.
3. **Maak TG**. ACL Reconstruction: Getting to the femoral origin. Metcalf / AANA Arthroscopic Surgery Seminar. Snowbird, Utah. January 23-25, 2014.
4. **Maak TG**. The FAI Patient Work-up. Metcalf / AANA Arthroscopic Surgery Seminar. Snowbird, Utah. January 23-25, 2014.
5. **Maak TG**. Femoral Osteoplasty: Pearls & Pitfalls. Metcalf / AANA Arthroscopic Surgery Seminar. Snowbird, Utah. January 23-25, 2014.
6. **Maak TG**. Evaluation of the unstable patellofemoral joint. Metcalf / AANA Arthroscopic Surgery Seminar. Snowbird, Utah. January 23-25, 2014.
7. **Maak TG**. What we learned at Metcalf 2014. Metcalf / AANA Arthroscopic Surgery Seminar. Snowbird, Utah. January 23-25, 2014.
8. **Maak TG**. Knee ligament and meniscus injury. Visiting Professor Lecture. University of Utah School of Medicine. March 21, 2014.
9. **Maak TG**. Knee Preservation – Concepts and Results. Department of Orthopaedics, University of Utah. Salt Lake City, UT. September 18, 2013.
10. **Maak TG**. Cartilage restoration: Decision-making & Treatment Rationale. Department of Rheumatology, University of Utah. Salt Lake City, UT. April 19, 2013.
11. **Maak TG**. Biomechanics of Orthopaedic Surgery. Department of Biomechanics, University of Utah. Salt Lake City, UT. April 12, 2013.

12. **Maak TG.** Knee ligament and meniscus injury. Visiting Professor Lecture. University of Utah School of Medicine. March 13, 2013.

13. **Maak TG.** Knee dislocations & Multiligamentous knee injury. Grand Rounds. University of Utah. August 12, 2012.

#### **OTHER RELEVANT EXPERIENCE**

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2013-Present Journal Reviewer, Journal of Shoulder and Elbow Surgery

2011-Present Journal Reviewer, American Journal of Sports Medicine, Rosemont, IL

2010-Present Journal Reviewer, Clinical Orthopaedics & Related Research, Philadelphia, PA

2009-Present Journal Reviewer, HSS Journal, New York, NY

2011-2012 Orthopaedic Anatomy Course – Teacher, Weill-Cornell Medical School, New York, NY

2011-2012 The Orthopaedic Physical Examination – Teacher, Weill-Cornell Medical School, New York NY

2009 Journal Consultant, Clinical Orthopaedics & Related Research, Philadelphia, PA

2001-2006 Medical Volunteer, American Red Cross, New Haven, CT

2003-2005 Hunger and Homelessness Auction Volunteer, New Haven, CT

2002-2004 Volunteer Health Sciences Teacher, Roberto Clemente Junior High School, New Haven, CT

1999 Medical Volunteer, Tetecala, Mexico

1998-1999 Medical Volunteer, Arbor Free Clinic, Palo Alto, CA

1995-1998 National Ski Patrolman, Park City Mountain Resort, Park City, UT

#### **CONTINUING MEDICAL EDUCATION**

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International Society for Hip Arthroscopy, Cambridge, England, September 23-27, 2015

Metcalf Memorial & AANA Winter Meeting, Snowbird, Utah. March 4-7, 2015.

American Academy of Orthopaedic Surgery Annual Meeting, New Orleans, LA. March 11-15, 2014.

International Society for Hip Arthroscopy, Rio de Janeiro, Brazil, October 9-11, 2014.

American Orthopaedic Society of Sports Medicine Annual Meeting, 2014

Metcalf Memorial & AANA Winter Meeting, Snowbird, Utah. January 23-25, 2014.

American Academy of Orthopaedic Surgery Annual Meeting, Chicago, IL. March 19-23, 2013.

American Orthopaedic Society of Sports Medicine Annual Meeting, Chicago, IL. July 11-14, 2013.

Metcalf Memorial & AANA Winter Meeting, Sun Valley, ID, 2013.

Instructor & Team Leader, Sports Medicine Course: Current Concepts in Sports Medicine, Hospital for Special Surgery, New York, NY, April 21, 2012.

Table Instructor, Fundamentals in Arthroscopy: Arthrex Course, Arthrex, Arthrex Learning Center, New York, NY, November 12<sup>th</sup>, 2011.



Metcalf Memorial & AANA Winter Meeting, Snowbird, UT, March 24-27, 2011.

American Academy of Orthopaedic Surgery Annual Meeting, San Diego, CA, February 16-19, 2011.

Arthroscopy Association of North America: Advanced Arthroscopic Techniques, Chicago, IL, December 3-5, 2009.

AO ASIF Basic Principles and Techniques of Operative Fracture Management Course for Residents, San Diego, CA, August 27-31, 2009.

Twelfth Annual Mount Sinai Musculoskeletal Pathology Course, New York, NY, October 28-30, 2008

87<sup>th</sup> Annual Alumni Meeting at the Hospital for Special Surgery Hospital for Special Surgery, New York City, NY, November 10-11, 2009.

## **PROFESSIONAL SOCIETIES**

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2014	NBA Physicians Association – Active Member
2012	American Orthopaedic Association – Active Member
2011	Arthroscopy Association of North America – Active Member
2011	American Orthopedic Society for Sports Medicine – Active Member
2007	American Academy of Orthopaedic Surgeons – Active Member
2007	American College of Surgeons – Active Member
2006	American Medical Association – Active Member
2006	Alpha Omega Alpha Medical Honor Society – Active Member

## **CERTIFICATION**

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2015-	Board Eligible –Orthopaedic Sports Medicine Subspecialty Certification – ABOS
2014-2024	Board Certified – American Academy of Orthopaedic Surgery (ABOS)
2006-2018	Basic Life Support, American Heart Association
2006-2012	Advanced Cardiac Life Support, American Heart Association
2006	USMLE Step 3
2003	USMLE Step 2
2002	USMLE Step 1

## **MEDICAL LICENSURES**

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2012-Present	Physician License (#8234797-1205), Utah Department of Professional Licensing (DOPL) – Active
2012-Present	Controlled Substances License (#8234797-8905), Utah DOPL – Active
2007 – 2011	DEA License (FM0664018), Federal Drug Enforcement Agency – Active
2007 - 2011	Physician License (#246370-1), New York State Education Department – Expired

## **SKILLS**

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Proficient in Microsoft applications (Word, Excel, Powerpoint, Access, Videomaker), SPSS statistical software, Adobe Photoshop, HTML, Visual Basic, Turbo C++, and Turbo Pascal as well as other common applications.