Anthony J. Scillia, M.D.
Publications

1. Detection of total hip arthroplasties at airport security checkpoints - how do updated security measures affect patients?
   Published in Hip International, September 2017
   a. There have been historical reports on the experiences of patients with total hip arthroplasty (THA) triggering standard metal detectors at airports. However, the percentage of patients who trigger security alarms has decreased and the number of patients who feel that their prosthesis caused traveling inconvenience has decreased.

2. Does Hepatitis C Affect the Clinical and Patient-Reported Outcomes of Primary Total Hip Arthroplasty at Midterm Follow-Up?
   Published in Journal of Arthroplasty, September 2017
   a. It is estimated that 3%-6% of orthopedic patients, many of whom may undergo lower extremity total joint arthroplasty, are infected with hepatitis C. Hepatitis C patients can achieve good implant survivorship and clinical outcomes after THA.

   Published in the Journal of Knee Surgery, September 2017
   a. Manipulation under anesthesia (MUA) can help patients regain an adequate range of motion (ROM) following total knee arthroplasty (TKA). Undergoing MUA after TKA was not associated with an increased risk of revision surgery. Furthermore, satisfactory clinical and functional outcomes may still be achieved if an MUA and even a subsequent revision arthroplasty are required.

   Published in Surgical Technology International, July 2017
   a. A single case of a young man with an anterior inferior iliac spine (AIIS) avulsion fracture who was taking human growth hormone (HGH) at the time his injury was diagnosed. He was treated surgically and returned to full activity six months post-operatively.

5. Low Ankle Sprains: A Current Review of Diagnosis and Treatment.
   Published in Surgical Technology International, July 2017
   a. The majority of patients diagnosed with low ankle sprains are treated with a one- to two-week immobilization period with physical therapy focused on peroneal proprioception and strength. If a prolonged non-operative course fails, or there is gross instability upon physical exam, surgical reconstruction may be considered and may lead to excellent outcomes.
Anthony J. Scillia, M.D.

Publications

6. **Detection of Total Knee Arthroplasties at Airport Security Checkpoints: How Do Updated Security Measures Affect Patients?**
   Published in the Journal of Knee Surgery, July 2017
   a. Airport security measures continue to be updated with the incorporation of the new body scanners and automatic target recognition software. The purpose of this study was to analyze the incidence of: (1) triggering the security alarm; (2) extra security searches; (3) perceived inconvenience; and (4) presence of other surgical hardware in those who underwent total knee arthroplasty (TKA) and passed through airport security. We found the incidences of those who underwent TKA triggering alarms and perceiving inconvenience when passing through airport security have decreased from previously published studies.

7. **A Single-Incision Technique for Distal Biceps Repair Using a Flexible Reamer.**
   Published in Orthopedics, July 2017
   a. Distal biceps tendon ruptures are rare injuries that usually occur in middle-aged men. Most of these injuries are repaired acutely to restore preinjury function and strength. There is concern regarding the higher prevalence of certain complications with the double-incision technique. As such, the single-incision technique has also been studied to determine if it may produce superior safety and efficacy.

8. **Iliotibial Band Lengthening: An Arthroscopic Surgical Technique.**
   Published in Arthroscopy Techniques, June 2017
   a. Iliotibial (IT) band syndrome is a common cause of lateral knee pain in runners and cyclists. Many can be treated non-operatively; however, some may require surgical lengthening of their IT band to achieve optimal pain relief and a return to preinjury level of activity. Here we describe an arthroscopic surgical technique for IT band lengthening in patients with IT band syndrome refractory to conservative treatment modalities.

   Published in Arthroscopy: The Journal of Arthroscopy and Related Surgery, June 2017
   a. Functional outcomes of open and arthroscopic releases may be superior to those of percutaneous release. In addition, patients may report less pain with arthroscopic and percutaneous techniques. Although the risk of complications is similar regardless of technique, patients may be counseled that their risk of infectious complications may be slightly higher with open releases.

10. **Management of Nasal Fractures in Sports.**
    Published in Sports Medicine, April 2017
    a. Nasal fractures represent approximately 60% of all facial injuries that occur in athletic activities; however, there are no current guidelines regarding immediate sideline management of these injuries. The majority of athletes with these injuries in isolation may return to play; however, in our practice, we recommend they wear a face mask for 6 weeks after their injury.
Anthony J. Scillia, M.D.
Publications

11. **Arthroscopic Piriformis Release-A Technique for Sciatic Nerve Decompression.**
Published in Arthroscopy Techniques, February 2017
   a. Various techniques for piriformis muscle release have been published previously. However, it is imperative we continue to improve on existing techniques as well as develop new ones that may further optimize outcomes. Therefore, we aimed to describe an endoscopic technique for the release of the piriformis muscle in those with symptoms of sciatic nerve compression.

12. **Pediatric Anterior Cruciate Ligament Reconstruction: A Systematic Review of Transphyseal Versus Physeal-Sparing Techniques.**
Published in the American Journal of Sports Medicine, February 2017
   a. Anterior cruciate ligament reconstruction is becoming more common in skeletally immature individuals, and it may be performed with transphyseal or physeal-sparing techniques. A review of the literature showed that these surgical techniques have no differences in incidence of growth disturbances or graft survivorship. Younger males tend to undergo physeal-sparing reconstruction.

13. **No Decrease in Knee Survivorship or Outcomes Scores for Patients With HIV Infection Who Undergo TKA.**
Published in Clinical Orthopaedics and Related Research, February 2017
   a. Although some studies have suggested that complications are more common in patients with HIV who undergo TKA, these studies largely were done before the contemporary era of HIV management; moreover, it is unclear whether patients with HIV achieve lower patient-reported outcome scores or inferior implant survivorship. We found that patients with HIV had no differences in clinical scores and implant survivorship compared with patients without the disease at mid-term follow-up.

14. **Sexual Activity After Total Hip Arthroplasty: A Systematic Review of the Outcomes.**
Published in the Journal of Arthroplasty, January 2017
   a. Total hip arthroplasty (THA) may have a marked positive impact on sexual activity. A thorough review of the literature was performed and suggests that THA is associated with improved sexual activities and is an important topic for patients.

15. **Anterior Cruciate Ligament Injuries in Baseball Players.**
Published in Arthroscopy: The Journal of Arthroscopy and Related Surgery, November 2016
   a. The overwhelming majority of baseball players that sustain ACL injuries do so while fielding or base running. Outfielders are significantly more likely than infielders to suffer ACL injuries while fielding versus base running. The results with respect to return to play are promising, as nearly all patients were able to return to baseball and none required a revision ACL surgery at a mean follow-up of 4.2 years.
16. **Lateral Capsular Meniscal Tear in a Cross-country Runner.**
Published in Orthopedics, November 2016
a. The authors report a case of an 18-year-old male cross-country runner presenting with non-radiating lateral right knee pain after a failed course of physical therapy. He underwent an uncomplicated repair of his meniscal capsular junction tear with injection into the repair of bone marrow aspirate concentration taken from his iliac crest. At his 6-month follow-up visit, he had returned to cross-country running, achieved satisfactory Knee Outcome Scores, and reported minimal pain per the visual analog scale.

17. **Total Shoulder Arthroplasty Demographics, Incidence, and Complications-A Nationwide Inpatient Sample Database Study.**
Published in Surgical Technology International, October 2016
a. Total shoulder arthroplasty (TSA) has become a popular and successful surgery to treat advanced glenohumeral arthritis, rotator cuff arthropathy, and proximal humerus fractures. Our study demonstrates a rapid increase in incidence rates of TSAs within a 13-year period in the United States. An increased risk of complications was noted with older age, female gender, and increased comorbidity score.

18. **Ochronosis as Etiology of Requiring Total Knee Arthroplasty-A Case Series.**
Published in Surgical Technology International, October 2016
a. Alkaptonuria is a rare hereditary metabolic disorder that weakens the collagen, creating fissuring and articular cartilage degeneration. We report a series of three patients who presented with signs and symptoms of ochronotic arthropathy and eventually underwent total knee arthroplasty (TKA). Here we provide a review of the current literature on total joint arthroplasty in ochronotic osteoarthritis.

19. **Arthroscopic Partial Meniscectomy for Meniscal Tears: A Review and Commentary on a Study by NEJM.**
Published in the Journal of Knee Surgery, July 2016
a. Approximately 700,000 arthroscopic partial meniscectomies (APMs) are performed annually in the United States in patients who meet specific indications. This study critically reviewed a recently published New England Journal of Medicine (NEJM) article, as well as analyze and assess the current body of APM literature.

20. **Symptomatic Heterotopic Ossification After Ulnar Collateral Ligament Reconstruction: Clinical Significance and Treatment Outcome.**
Published in the American Journal of Sports Medicine, May 2016
a. Symptomatic heterotopic ossification (HO) or abnormal bone formation after ulnar collateral ligament (UCL) reconstruction is very uncommon but may prove to be a significant complication among athletes. With appropriate treatment, the majority of patients were able to return to the same level of play. Early identification of this complication is important, as revision surgery with excision of osteophytes resulted in a return to a similar level of play in most patients.
21. **Midterm Outcomes Following Total Knee Arthroplasty in Lupus Patients.**
   Published in Journal of Arthroplasty, March 2016
   a. An increasing number of patients with systemic lupus erythematosus (SLE) are undergoing total knee arthroplasty (TKA), but there are few studies detailing their outcomes. Our study demonstrated comparable excellent clinical and patient-reported outcomes of TKA in patients with or without SLE.

22. **Bariatric Orthopaedics: Total Hip Arthroplasty in Super-Obese Patients (Those with a BMI of ≥50 kg/m²).**
   Published in the Journal of Bone and Joint Surgery, February 2016
   a. Super-obese patients have achieved significant improvement in various clinical and patient-reported metrics compared with their preoperative status, however, we found lower clinical outcome scores, a higher revision rate, and higher complications in super-obese patients compared with the matched group at a mean follow-up of six years.

23. **Inpatient Cruciate Ligament Reconstruction in the United States: A Nationwide Database Study From 1998 to 2010.**
   Published in Orthopedics, February 2016
   a. There was a significant reduction (670%) in the annual number of inpatient cruciate reconstructions during a 13-year period. During this period, the mean age, number of comorbidities, length of stay, and total admission costs significantly increased for inpatient admissions. The number of complicated admissions also increased gradually during the study period, and older age and increased number of comorbidities significantly increased the risk of perioperative complication.

24. **Acromioclavicular Joint Reconstruction.**
   Published in Arthroscopy Techniques, December 2015
   a. Acromioclavicular joint (ACJ) instability can occur because of a direct force on the lateral acromion, as well as because of an indirect force on an outstretched arm. Here we describe an anatomic coracoclavicular ligament reconstruction with suture augmentation to treat unstable acromioclavicular joint dislocations.

25. **Return to play following metacarpal fractures in football players.**
   Published in Hand, December 2015
   a. Fractures to the bones of the hand, or metacarpals, are common in football players and lead to time away from competition. Football players who required surgical fixation of a metacarpal fracture demonstrated an efficient return to play, including in-season players with use of protective bracing.
26. **Accuracy of in vivo palpation-guided acromioclavicular joint injection assessed with contrast material and fluoroscopic evaluations.**
   Published in Skeletal Radiology, August 2015
   a. The acromioclavicular (AC) joint is subject to premature and progressive wear and tear degeneration leading to osteoarthritis. The use of corticosteroid injections via palpation, ultrasound or fluoroscopic guidance can be utilized to relieve symptoms. The purpose of this study was to evaluate the accuracy of AC joint injections without fluoroscopic guidance and assess whether patient demographics affected the accuracy of injections.

27. **Return to play after chondroplasty of the knee in National Football League athletes.**
   Published in the American Journal of Sports Medicine, March 2015
   a. Damage to the articular cartilage can be career threatening and the rate of return to play (RTP) following arthroscopic repair is unknown. A majority of NFL players are able to RTP after arthroscopic knee surgery including chondroplasty of articular cartilage lesions. Athletes who play more games per season are more likely to RTP after chondroplasty of articular cartilage lesions of the knee, but those undergoing concomitant microfracture are less likely to return.

28. **Total Knee Arthroplasty after Complete Patellectomy: A Review.**
   Published in the Journal Long Term Effects of Medical Implants, 2015
   a. The absence or dysfunction of the knee extensor mechanism following the removal of the patella, a patellectomy, can accelerate degenerative joint disease and complicate knee arthroplasty outcomes. The purpose of this report is to review the relevant basic biology and biomechanics of the patella and the extensor mechanism, and to review the current literature on the management of complete patellectomy during total knee arthroplasty.

29. **Deficiencies in pitching biomechanics in baseball players with a history of superior labrum anterior-posterior repair.**
   Published in the American Journal of Sports Medicine, December 2014
   a. Baseball pitchers who undergo superior labrum anterior-posterior (SLAP) repair often have trouble returning to their previous level of performance. Pitchers with a history of SLAP repair produce less shoulder horizontal abduction, shoulder external rotation, and forward trunk tilt during pitching than do pitchers with no history of injury.

30. **Snapping of the proximal hamstring origin: a rare cause of coxa saltans: a case report.**
    Published in Journal of Bone and Joint Surgery, November 2011
    a. We report a case of female recreational tennis player whom presented with a one-year history of left buttock pain as well as audible snapping of the buttocks when she bent at the hip. Following unsuccessful conservative treatment, a tenotomy of the lateral portion of the proximal hamstring was performed resulting in alleviation of all symptoms.
31. Primary osteomyelitis of the acetabulum resulting in septic arthritis of the hip and obturator internus abscess diagnosed as acute appendicitis. Published in the Journal of Pediatric Surgery, August 2010
   a. The authors report an uncommon presentation of acetabular osteomyelitis or bone infection mimicking acute appendicitis and the severity of its sequelae. This case demonstrates the need to consider pelvic osteomyelitis and peripelvic infection in the differential diagnosis of appendicitis.