

TECHNION – RUTH & BRUCE RAPPAPORT FACULTY OF MEDICINE
RESUME (for physicians only)

1. PERSONAL DETAILS

Full Name: **Jacob Shapira**

Identity No: 040902447

Date of birth: 22/7/1981

Place of birth: Israel

Marital status: married

Phone numbers: 0545903693

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2. ACADEMIC DEGREES

2010 MD (cum laude), Faculty of Medicine, University of Debrecen, Hungary

3. ACADEMIC APPOINTMENTS

4. PROFESSIONAL EXPERIENCE

2020 - Present	Attending Physician, Prof. Doron Norman, Orthopedic Dpt., Rambam Medical Center
2018 - 2020	Fellow, Dr. Benjamin Domb, American Hip Institute
2012 - 2018	Resident, Prof. Doron Norman, Orthopedic Dpt., Rambam Medical Center
2011 - 2012	Clerkship, Rambam Medical Center

5. RESEARCH INTERESTS

- Surgical outcome studies, including patients reported outcome questionnaires (PROs)
- Systematic reviews
- Prediction studies (regression analysis)
- Robotic-assisted arthroplasty

- Hip arthroscopy

6. TEACHING EXPERIENCE

2014 - 2018	Clinical Rotation, Orthopedic Dpt. , Medical School Clinical , Rambam Health Care Campus, Haifa
2016 - 2018	Preparation for Residency Exams , Residents , Rambam Health Care Campus, Haifa
2018 - 2020	Research Instructor , Internship, Premeds , American Hip Institute

7. TECHNION ACTIVITIES

8. FACULTY ACTIVITIES

9. PUBLIC PROFESSIONAL ACTIVITIES

2020 - Present Peer Reviewer, The Journal of Arthroscopic & Related Surgery

10. MEMBERSHIP IN PROFESSIONAL SOCIETIES

- Arthroscopy Association of North America (AANA)
- The International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS)
- American Academy of Orthopaedic Surgeons (AAOS)

11. AWARDS AND HONORS

12. GRADUATE STUDENTS

Completed MD Theses

Completed Basic Science Theses

Completed MSc Theses

Completed PhD Thesis

MD Theses in Progress

2020 - 2022 Itay Ron, Risk factors for revision high amputation following transmetatarsal amputation ,(Jacob Shapira Co-Supervisor with Tal Ben Kiki)

Basic Science Theses in Progress

MSc Theses in Progress

PhD Theses in Progress

13. FORMER TRAINEES AT KEY POSITIONS

14. RESEARCH GRANTS

Competitive

Industrial

15. PUBLICATIONS

15.1 Theses

2010, "Citius, Altius Fortius: Faster, Higher, Stronger", Dr. Robert Porszasz, University of Debrecen Medical School.

15.2 Refereed papers in professional journals

Published papers

Accepted (or in press) papers

1. **Shapira, Jacob**; Kyin, Cynthia; Rosinsky, Philip J; Meghpara, Mitchell B; Lall, Ajay C; Maldonado, David R; Domb, Benjamin G. Short-Term Outcomes of Concomitant Femoral Derotation Osteotomy and Hip Arthroscopy. Orthopedics 2020; Accepted.

2. **Shapira, Jacob**; Chen, Jeffery W; Yelton, Mitchell J; Rosinsky, Philip J; Maldonado, David R; Meghpara, Mitchell B; Lall, Ajay C; Domb, Benjamin G. Labral size correlates with increasing intraarticular damage at time of arthroscopy in dysplastic patients. Arthroscopy: The Journal of Arthroscopic & Related Surgery 2020; Accepted.

3. **Shapira, Jacob**; Yelton, Mitchell J; Meghpara, Mitchell B; Rosinsky, Philip J; Maldonado, David R; Lall, Ajay C; Domb, Benjamin G. Intraoperative Findings and Clinical Outcomes Associated with Arthroscopic Management of Subspine Impingement: A Propensity-Matched Controlled Study. Arthroscopy: The Journal of Arthroscopic & Related Surgery 2020; Accepted.

4. **Shapira, Jacob**; Chen, Jeffery W; Yelton, Mitchell J; Rosinsky, Philip J; Maldonado, David R; Meghpara, Mitchell B; Lall, Ajay C; Domb, Benjamin G. Efficacy of NSAIDs Versus Radiotherapy for Heterotopic Ossification Prophylaxis Following Total Hip Arthroplasty in High-Risk Patients: A Systematic Review and Meta-Analysis. HIP International 2020; In press.

5. **Shapira, Jacob**; Yelton, Mitchell J; Meghpara, Mitchell B; Rosinsky, Philip J; Maldonado, David R; Lall, Ajay C; Domb, Benjamin G. Ligamentum Teres Reconstruction May Lead to Improvement in Outcomes Following A Secondary Hip Arthroscopy for Symptomatic Microinstability: A Systematic Review. Arthroscopy: The Journal of Arthroscopic & Related Surgery 2020; Accepted.

Submitted papers

1. **Shapira, Jacob**; Bheem, Rishika; Rosinsky, Philip J; Maldonado, David R; Lall, Ajay C; Domb, Benjamin G. Minimum 5-year Outcomes of Birmingham Hip Resurfacing: Propensity-Scored Matched against Total Hip Arthroplasty Control Groups. The Journal of Arthroplasty 2020; Submitted.
2. **Shapira, Jacob**; Diulus, Samantha C; Rosinsky, Philip J; Maldonado, David R; Lall, Ajay C; Domb, Benjamin G. Sexual function following total hip arthroplasty in reproductive age females. The Journal of Arthroplasty 2020; Submitted.
3. **Shapira, Jacob**; Annin, Shawn; Rosinsky, Philip J; Maldonado, David R; Lall, Ajay C; Domb, Benjamin G. Total Hip Arthroplasty After Pelvic Osteotomy for Acetabular Dysplasia: A Systematic Review. The Journal of Arthroplasty 2020; Submitted.

Basic research

Clinical research

1. Perets, Itay; Chaharbakhshi, Edwin O; **Shapira, Jakob**; Ashberg, Lyall; Mu, Brian H; Domb, Benjamin G. Hip arthroscopy for femoroacetabular impingement and labral tears in patients younger than 50 years: minimum five-year outcomes, survivorship, and risk factors for reoperations. JAAOS-Journal of the American Academy of Orthopaedic Surgeons 2019; 27: e173-e183.
2. Maldonado, David R; Lall, Ajay C; Walker-Santiago, Rafael; Rosinsky, Philip; **Shapira, Jacob**; Chen, Jeffrey W; Domb, Benjamin G. Hip labral reconstruction: consensus study on indications, graft type and technique among high-volume surgeons. Journal of hip preservation surgery 2019; 6: 41-49.
3. Maldonado, David R; Chen, Jeffrey W; Walker-Santiago, Rafael; Rosinsky, Philip J; **Shapira, Jacob**; Lall, Ajay C; Domb, Benjamin G. Forget the greater trochanter! Hip joint access with the 12 o'clock portal in hip arthroscopy. Arthroscopy techniques 2019; 8: e575-e584.
4. Rosinsky, Philip J; Go, Camille C; **Shapira, Jacob**; Maldonado, David R; Lall, Ajay C; Domb, Benjamin G. Validation of a risk calculator for conversion of hip arthroscopy to total hip arthroplasty in a consecutive series of 1400 patients. The Journal of Arthroplasty 2019; 34: 1700-1706.
5. Maldonado, David R; Chen, Jeffrey W; Lall, Ajay C; Kyin, Cynthia; Walker-Santiago, Rafael; Rosinsky, Philip J; **Shapira, Jacob**. Domb, Benjamin G; Do not take for granted! The art of

elevating the capsule in hip arthroscopy: A stepwise approach. *Arthroscopy techniques* 2019; 8: e883-e887.

6. Maldonado, David R; Chen, Jeffrey W; Lall, Ajay C; Kyin, Cynthia; Walker-Santiago, Rafael; **Shapira, Jacob**; Rosinsky, Philip J; Domb, Benjamin G. Microfracture in Hip Arthroscopy. Keep It Simple! *Arthroscopy techniques* 2019; 8: e1063-e1067.

7. Maldonado, David R; Chen, Jeffrey W; Lall, Ajay C; Go, Camille C; Walker-Santiago, Rafael; Rosinsky, Philip J; **Shapira, Jacob**; Domb, Benjamin G. Arthroscopic ligamentum teres reconstruction using anterior tibialis allograft and the tension-slide technique. *Arthroscopy Techniques* 2019; 8: e1075-e1083.

8. Maldonado, David R; Chen, Jeffrey W; Lall, Ajay C; Walker-Santiago, Rafael; **Shapira, Jacob**; Rosinsky, Philip J; Chen, Sarah; Domb, Benjamin G. Hip Labral Augmentation With Tibialis Anterior Tendon Allograft Using the Knotless Pull-Through Technique. *Arthroscopy techniques* 2019; 8: e1209-e1216.

9. Maldonado, David R; Kyin, Cynthia; Walker-Santiago, Rafael; Rosinsky, Philip J; **Shapira, Jacob**; Lall, Ajay C; Domb, Benjamin G. Direct anterior approach versus posterior approach in primary total hip replacement: comparison of minimum 2-year outcomes. *HIP International* 2019; 1120700019881937.

10. Rosinsky, Philip J; Kyin, Cynthia; Lall, Ajay C; **Shapira, Jacob**; Maldonado, David R; Domb, Benjamin G. Rate of return to sport and functional outcomes after bilateral hip arthroscopy in high-level athletes. *The American Journal of Sports Medicine* 2019; 47: 3444-3454.

11. Maldonado, David R; Mu, Brian H; Ornelas, Joe; Chen, Sarah L; Lall, Ajay C; Walker-Santiago, Rafael; Rosinsky, Philip J; **Shapira, Jacob**; Domb, Benjamin G. Hip-Spine Syndrome: The Diagnostic Utility of Guided Intra-articular Hip Injections. *Orthopedics* 2019; 43: e65-e71.

12. Rosinsky, Philip J; Chen, Jeffrey W; Lall, Ajay C; **Shapira, Jacob**; Maldonado, David R; Domb, Benjamin G. Can we help patients forget their joint? Determining a threshold for successful outcome for the Forgotten Joint Score. *The Journal of Arthroplasty* 2020; 35: 153-159.

13. Rosinsky, Philip J; Chen, Jeffrey W; Lall, Ajay C; **Shapira, Jacob**; Maldonado, David R; Domb, Benjamin G. Can we help patients forget their joint? Determining a threshold for successful outcome for the Forgotten Joint Score. *The Journal of Arthroplasty* 2020; 35: 153-159.

14. Maldonado, David R; Chen, Jeffrey W; Walker-Santiago, Rafael; Rosinsky, Philip J; **Shapira, Jacob**; Lall, Ajay C; Kyin, Cynthia; Domb, Benjamin G. Radiographic and Demographic Factors

Can Predict the Need for Primary Labral Reconstruction in Hip Arthroscopic Surgery: A Predictive Model Using 1398 Hips. *The American Journal of Sports Medicine* 2020; 48: 173-180.

15. Chen, Jeffrey W; Rosinsky, Philip J; **Shapira, Jacob**; Maldonado, David R; Kyin, Cynthia; Lall, Ajay C; Domb, Benjamin G. Osteochondral Allograft Implantation Using the Smith–Peterson (Anterior) Approach for Chondral Lesions of the Femoral Head. *Arthroscopy techniques* 2020; 9: e239-e245.

16. Maldonado, David R; Chen, Sarah L; Yelton, Mitchell J; Rosinsky, Philip J; Walker-Santiago, Rafael; **Shapira, Jacob**; Lall, Ajay C; Domb, Benjamin G. Return to sport and athletic function in an active population after primary arthroscopic labral reconstruction of the hip. *Orthopaedic Journal of Sports Medicine* 2020; 8: 2325967119900767.

17. Rosinsky, Philip J; Chen, Jeffrey W; Lall, Ajay C; Wojnowski, Natalia M; **Shapira, Jacob**; Maldonado, David R; Domb, Benjamin G. Can radiographic joint space accurately predict chondral damage during hip arthroscopy? An analysis on 1,892 hips. *Arthroscopy: The Journal of Arthroscopic & Related Surgery* 2020; 36: 1565-1572.e1.

18. Domb, Benjamin G; Chen, Sarah L; **Shapira, Jacob**; Maldonado, David R; Lall, Ajay C; Rosinsky, Philip J. The evolution of hip arthroscopy: What has changed since 2008—A single surgeon’s experience. *Arthroscopy: The Journal of Arthroscopic & Related Surgery* 2020; 36: 761-772.

19. Maldonado, David R; Chen, Sarah L; Walker-Santiago, Rafael; **Shapira, Jacob**; Rosinsky, Philip J; Lall, Ajay C; Domb, Benjamin G. An Intact Ligamentum Teres Predicts a Superior Prognosis in Patients with Borderline Dysplasia: A Matched-Pair Controlled Study With Minimum 5-Year Outcomes After Hip Arthroscopic Surgery. *The American Journal of Sports Medicine* 2020; 48: 673-681.

20. Lall, Ajay C; Annin, Shawn; Chen, Jeffery W; Maldonado, David R; Rosinsky, Philip J; **Shapira, Jacob**; Walker-Santiago, Rafael; Domb, Benjamin G. Achieving a Perfectly Spherical Femoroplasty: Pearls, Pitfalls, and Optimal Surgical Technique. *Arthroscopy techniques* 2020; 9: e303-e313.

21. Rosinsky, Philip J; Chen, Jeffery W; Yelton, Mitchell J; Lall, Ajay C; Maldonado, David R; Meghpara, Mitchell B; **Shapira, Jacob**; Domb, Benjamin G. Does failure to meet threshold scores for mHHS and iHOT-12 correlate to secondary operations following hip arthroscopy? *Journal of Hip Preservation Surgery* 2020; hnaa015.

22. Rosinsky, Philip J; Annin, Shawn; Maldonado, David R; Kyin, Cynthia; Meghpara, Mitchell B; **Shapira, Jacob**

; Lall, Ajay C; Domb, Benjamin G. Arthroscopic Ligamentum Teres Reconstruction: Minimum 2-year Patient Reported Outcomes with Sub-Analysis of Patients with Ehlers-Danlos Syndrome. *Arthroscopy: The Journal of Arthroscopic & Related Surgery* 2020; 36: 2170-2182.

23. Maldonado, David R; Chen, Jeffery W; Yelton, Mitchell J; Rosinsky, Philip J; **Shapira, Jacob**; Brayboy, Ciaran; Lall, Ajay C; Domb, Benjamin G. Achieving Successful Outcomes of Hip Arthroscopy in the Setting of Generalized Ligamentous Laxity With Labral Preservation and Appropriate Capsular Management: A Propensity Matched Controlled Study. *The American Journal of Sports Medicine* 2020; 48: 1625-1635.

24. Rosinsky, Philip J; Mayo, Ben C; Kyin, Cynthia; **Shapira, Jacob**; Maldonado, David R; Meghpara, Mitchell B; Lall, Ajay C; Domb, Benjamin G. The Femoral Head “Divot” Sign: A Useful Arthroscopic Sign of Hip Microinstability. *Orthopaedic Journal of Sports Medicine* 2020; 8: 2325967120917919.

25. Maldonado, David R; Chen, Jeffery W; Kyin, Cynthia; Rosinsky, Philip J; **Shapira, Jacob**; Karom, Jarod M; Lall, Ajay C; Domb, Benjamin G. Hips With Acetabular Retroversion Can Be Safely Treated With Advanced Arthroscopic Techniques Without Anteverting Periacetabular Osteotomy: Midterm Outcomes With Propensity-Matched Control Group. *The American Journal of Sports Medicine* 2020; 48: 1636-1646.

26. Rosinsky, Philip J; Chen, Jeffrey W; **Shapira, Jacob**; Maldonado, David R; Lall, Ajay C; Domb, Benjamin G. Mid-term Patient-reported Outcomes of Hip Arthroplasty After Previous Hip Arthroscopy: A Matched Case-control Study with a Minimum 5-year Follow-up. *JAAOS-Journal of the American Academy of Orthopaedic Surgeons* 2020; 8: 501-510.

27. Maldonado, David R; Annin, Shawn; Chen, Jeffery W; Rosinsky, Philip J; **Shapira, Jacob**; Lall, Ajay C; Domb, Benjamin G. Full-Thickness Gluteus Medius Tears with or Without Concomitant Hip Arthroscopy: Minimum 2-Year Outcomes Using an Open Approach and Contemporary Tendon Repair Techniques. *Orthopaedic Journal of Sports Medicine* 2020; 8: 2325967120929330.

28. Maldonado, David R; Chen, Sarah L; Chen, Jeffery W; **Shapira, Jacob**; Rosinsky, Philip J; Annin, Shawn; Lall, Ajay C; Domb, Benjamin G. Prospective Analysis of Arthroscopic Hip Anatomic Labral Repair Utilizing Knotless Suture Anchor Technology: The Controlled-Tension Anatomic Technique at Minimum 2-Year Follow-up. *Orthopaedic Journal of Sports Medicine* 2020; 8: 2325967120935079.

29. Domb, Benjamin; Chen, Jeffrey; Rosinsky, Philip; **Shapira, Jacob**; Lall, Ajay; Yelton, Mitchell; Brayboy, Ciaran; Maldonado, David. Achieving Successful Outcomes of Hip

Arthroscopy in the Setting of Generalized Ligamentous Laxity with Labral Preservation and Appropriate Capsular Management: A Matched Pair Controlled Study. *Orthopaedic Journal of Sports Medicine* 2020; 8: 2325967120S00456.

30. Domb, Benjamin; Kyin, Cynthia; **Shapira, Jacob**; Maldonado, David; Lall, Ajay; Rosinsky, Philip. Return to Sport Rates and Functional Outcomes Following Bilateral Hip Arthroscopy in High-Level Athletes. *Orthopaedic Journal of Sports Medicine* 2020; 8: 2325967120S00435.

31. Domb, Benjamin; Chen, Sarah; Walker-Santiago, Rafael; **Shapira, Jacob**; Rosinsky, Philip; Lall, Ajay; Maldonado, David. Intact Ligamentum Teres Predicts Superior Prognosis in Borderline Dysplastic Patients: A Matched Pair Controlled Study with Minimum Five-Year Outcomes Following Hip Arthroscopy. *Orthopaedic Journal of Sports Medicine* 2020; 8: 2325967120S00425.

32. Maldonado, David R; Rosinsky, Philip J; **Shapira, Jacob**; Domb, Benjamin G. Stepwise Safe Access in Hip Arthroscopy in the Supine Position: Tips and Pearls from A to Z. *JAAOS-Journal of the American Academy of Orthopaedic Surgeons* 2020; 28: 651-659.

33. **Shapira, Jacob**; Chen, Jeffrey W; Bheem, Rishika; Rosinsky, Philip J; Maldonado, David R; Lall, Ajay C; Domb, Benjamin G. Binary Tönnis classification: simplified modification demonstrates better inter-and intra-observer reliability as well as agreement in surgical management of hip pathology. *BMC Musculoskeletal Disorders* 2020; 21: 1-9.

34. Domb, Benjamin G; Kyin, Cynthia; Rosinsky, Philip J; **Shapira, Jacob**; Yelton, Mitchell J; Meghpara, Mitchell B; Lall, Ajay C; Maldonado, David R. Circumferential Labral Reconstruction for Irreparable Labral Tears in the Primary Setting: Minimum 2-Year Outcomes With a Nested Matched-Pair Labral Repair Control Group. *Arthroscopy: The Journal of Arthroscopic & Related Surgery* 2020; Online ahead of print.

35. Rosinsky, Philip J; Chen, Sarah L; Yelton, Mitchell J; Lall, Ajay C; Maldonado, David R; **Shapira, Jacob**; Meghpara, Mitchell B; Domb, Benjamin G. Outpatient vs. Inpatient Hip Arthroplasty: A Matched Case-Control Study on 90-Day Complication Rate and 2-Year Patient Reported Outcomes. *BMC Journal of Orthopaedic Surgery and Research* 2020; Online ahead of print.

36. Maldonado, David R; Yelton, Mitchell J; Rosinsky, Philip J; **Shapira, Jacob**; Meghpara, Mitchell; Lall, Ajay C; Domb, Benjamin. Return to Play After Hip Arthroscopy Among Tennis Players: Outcomes with Minimum Five-Year Follow-up. *BMC Musculoskeletal Disorders* 2020; Online ahead of print.

37. **Shapira, Jacob**; Diulus, Samantha C; Rosinsky, Philip J; Maldonado, David R; Lall, Ajay C; Domb, Benjamin G. Robotics and Navigation as Learning Tools for Fellows Training in Hip

Arthroplasty. JAAOS-Journal of the American Academy of Orthopaedic Surgeons 2020; Online ahead of print.

38. Maldonado, David R; Go, Cammille C; Kyin, Cynthia; Rosinsky, Philip J; **Shapira, Jacob**; Lall, Ajay C; Domb, Benjamin G. Robotic Arm-assisted Total Hip Arthroplasty is More Cost-Effective Than Manual Total Hip Arthroplasty: A Markov Model Analysis. JAAOS-Journal of the American Academy of Orthopaedic Surgeons 2020; Online ahead of print.

39. Meghpara, Mitchell B; Bheem, Rishika; Diulus, Samantha C; Rosinsky, Philip J; **Shapira, Jacob**; Maldonado, David R; Lall, Ajay C; Domb, Benjamin G. An Iliopsoas Impingement Lesion in the Absence of Painful Internal Snapping May Not Require Iliopsoas Fractional Lengthening. The American Journal of Sports Medicine 2020; Online ahead of print.

40. Rosinsky, Philip J; Bheem, Rishika; Haden, Marshall; **Shapira, Jacob**; Maldonado, David R; Lall, Ajay C; Domb, Benjamin G. Asymptomatic Gluteal Tendinopathies Negatively Impact Outcomes of Total Hip Arthroplasty: A Propensity-Score Matched Study. The Journal of Arthroplasty 2020; Online ahead of print.

41. Meghpara, Mitchell B; Yelton, Mitchell J; Annin, Shawn; **Shapira, Jacob**; Rosinsky, Philip J; Maldonado, David R; Lall, Ajay C; Domb, Benjamin G. Mid-term outcomes of endoscopic gluteus medius repair with concomitant arthroscopic labral treatment: a propensity-matched controlled study. Arthroscopy: The Journal of Arthroscopic & Related Surgery 2020; Online ahead of print.

42. Domb, Benjamin G; Maldonado, Annin, Shawn; Chen, Jeffery W; Kyin, Cynthia; Rosinsky, Philip J; Maldonado, David R; Meghpara, Mitchell B; Lall, Ajay C; **Shapira, Jacob**. Optimal Treatment of Cam Morphology May Change the Natural History of Femoroacetabular Impingement. The American Journal of Sports Medicine 2020; Online ahead of print.

43. **Shapira, Jacob**; Bheem, Rishika; Kyin, Cynthia; Rosinsky, Philip J; Maldonado, David R; Lall, Ajay C; Domb, Benjamin G. Can Patient-Reported Outcomes Predict the Need for Secondary Surgeries Following Hip Arthroscopy? The American Journal of Sports Medicine 2020; In press.

Case reports

Review papers

1. Berkovitch, Yaron; **Shapira, J**; Haddad, Maruan; Keren, Yaniv; Rosenberg, Nahum. Current clinical trends in first time traumatic anterior shoulder dislocation. Merit Res J Med Sci 2013; 1: 7-13.

2. Stahl, Ido; **Shapira, Jackob**; Peskin, Bezalel; Hous, Nir; Norman, Doron; Falah, Mazen. THE EVOLUTION IN TREATING MENISCAL TEARS--FROM RESECTION TO SUTURING. Harefuah 2016; 155: 310-320.

3. **Shapira, Jacob**; Keren, Yaniv; Rinott, Nadav; Berkovich, Yaron. The relationship between injuries, shoes and style in the runner's population. *Harefuah* 2018; 157: 99-103.
4. **Shapira, Jacob**; Chen, Sarah L; Wojnowski, Natalia M; Lall, Ajay C; Rosinsky, Philip J; Maldonado, David R; Domb, Benjamin G. Outcomes of Nonoperative Management, Iliopsoas Tenotomy, and Revision Arthroplasty for Iliopsoas Impingement after Total Hip Arthroplasty: A Systematic Review. *The Journal of Arthroplasty* 2019; 34: 2184-2191.
5. Rosinsky, Philip J; Kyin, Cynthia; **Shapira, Jacob**; Maldonado, David R; Lall, Ajay C; Domb, Benjamin G. Hip arthroplasty after hip arthroscopy: are short-term outcomes affected? A systematic review of the literature. *Arthroscopy: The Journal of Arthroscopic & Related Surgery* 2019; 35: 2736-2746
6. **Shapira, Jacob**; Chen, Jeffrey W; Bheem, Rishika; Lall, Ajay C; Rosinsky, Philip J; Maldonado, David R; Domb, Benjamin G. Radiographic factors associated with hip osteoarthritis: a systematic review. *Journal of Hip Preservation Surgery* 2020; 7: 4-13
7. **Shapira, Jacob**; Kyin, Cynthia; Go, Camille; Rosinsky, Philip J; Maldonado, David R; Lall, Ajay C; Domb, Benjamin G. Indications and Outcomes of Secondary Hip Procedures After Failed Hip Arthroscopy. A Systematic Review. *Arthroscopy: The Journal of Arthroscopic & Related Surgery* 2020; 36: 1992-2007.
8. **Shapira, Jacob**; Chen, Sarah L; Rosinsky, Philip J; Maldonado, David R; Meghpara, Mitchell; Lall, Ajay C; Domb, Benjamin G. The effect of postoperative femoral offset on outcomes after hip arthroplasty: A systematic review. *Journal of Orthopaedics* 2020; 22: 5-11.
9. Rosinsky, Philip J; **Shapira, Jacob**; Lall, Ajay C; Domb, Benjamin G. All About the Ligamentum Teres: From Biomechanical Role to Surgical Reconstruction. *JAAOS-Journal of the American Academy of Orthopaedic Surgeons* 2020; 28: e328-e339.
10. **Shapira, Jacob**; Chen, Sarah L; Rosinsky, Philip J; Maldonado, David R; Lall, Ajay C; Domb, Benjamin G. Outcomes of outpatient total hip arthroplasty: a systematic review. *HIP International* 2020; Online ahead of print.

15.3 Books

15.4 Book chapters

1. Berkovich, Yaron; **Shapira, Jacob**; Rosenberg, Nahum. Mechanotransduction in Osteoblasts. In: *Mesenchymal Cell Activation by Biomechanical Stimulation and its Clinical Prospects*. Bentham Science Publishers, Sharjah, UAE, pp. 49-58, 2016

2. Haddad, Marwan; **Shapira, Jacob**; Rosenberg, Nahum. Mechanotransduction in Chondrocytes. In: Mesenchymal Cell Activation by Biomechanical Stimulation and its Clinical Prospects. Bentham Science Publishers, Sharjah, UAE, pp. 59-64, 2016.

15.5 Letters to the Editor

1. **Shapira, Jacob**; Chen, Sarah L; Lall, Ajay C; Domb, Benjamin G. Editorial Commentary: The Child of 2 Mothers: Hip Preservation and Hip Arthroplasty. Journal of hip preservation surgery 2019; 35: 644-645.

15.6 Refereed papers in conference proceedings

15.7 Patents (granted)

15.8 Other publications

16 CONFERENCES

16.1 Plenary, keynote or invited talks

International

1. **Jacob Shapira**, Risk Factors for AVN and Nonunion after Treating Subcapital Fractures with Cannulated Screws. A Retrospective Review, 2nd World Congress on Controversies, Debates & Consensus in Bone, Muscle & Joint Diseases (BMJD), Belgium, 2013
2. **Jacob Shapira**, Do Larger Acetabular Chondral Defects Portend Inferior Outcomes in Patients Undergoing Arthroscopic Acetabular Microfracture?, Eastern Orthopedic Association (EOA) 50th Annual Meeting, USA, 2019. (Plenary)
3. **Jacob Shapira**, Minimum Five-Year Outcomes of Endoscopic Gluteus Medius Repair with Concomitant Arthroscopic Treatment for Labral Tears, Eastern Orthopedic Association (EOA) 50th Annual Meeting, USA, 2019. (Plenary)
4. **Jacob Shapira**, Perineal Pressure during Hip Arthroscopy is Reduced by Use of Trendelenburg: A Prospective Study with Randomized Order of Positioning, Eastern Orthopedic Association (EOA) 50th Annual Meeting, USA, 2019. (Plenary)
5. **Jacob Shapira**, Primary Labral Reconstruction in Patients with Femoroacetabular Impingement, Irreparable Labral Tears, and Severe Acetabular Chondral Defects Decreases the Risk and Rate of Conversion to Total Hip Arthroplasty: A Pair-Matched Study, Eastern Orthopedic Association (EOA) 50th Annual Meeting, USA, 2019. (Plenary)

6. **Jacob Shapira**, The Evolution of Hip Arthroscopy: What has Changed between 2008 and 2018 - A Single Surgeon's Experience, Eastern Orthopedic Association (EOA) 50th Annual Meeting , USA, 2019. (Plenary)

7. **Jacob Shapira**, Minimum Two-Year Outcomes in Primary Robotic-Arm Assisted Total Hip Arthroplasty: An Analysis of Over 500 Hips, 5th Annual Technology and Innovation in Orthopedics Symposium, USA, 2020. (Plenary)

National

1. **Jacob Shapira**, Preoperative Assessment of Knee Axes with Standard Anteroposterior Radiograph, The 33rd Annual Meeting of the Israeli Orthopedic Association (IOA), Israel, 2013. (Plenary)

16.2 Contributed Talks and Posters

International Oral

International Poster

1. **Shapira, Jacob**; Chen, Jeffrey W; Bheem, Rishika; Lall, Ajay C; Rosinsky, Philip J; Maldonado, David R; Domb, Benjamin G., Radiographic predictive factors of hip osteoarthritis: A systematic review, The international society for hip arthroscopy (ISHA), Spain. 10-2019 .

National Oral

National Poster

16.3 Participation in organizing conferences

17. SIGNIFICANT PROJECTS