

CURRICULUM VITAE

MORTEZA MEFTAH, MD

CONTACT INFORMATION

Home address: 225 West 83rd st, Apt 8Z, New York, NY 10024
Office address: 301 East 17th Street, 15th floor, New York, NY 10003
Cell phone: 202-436-1356
Work email: Morteza.Meftah@nyulangone.org

CURRENT APPOINTMENTS AND LEADERSHIP POSITIONS

Academic appointment

- 03/2019 | Clinical Associate Professor | Orthopaedic Surgery | NYU Langone Orthopaedic Hospital | New York, NY
- 10/2013 | Clinical Assistant Professor | Orthopaedic Surgery | NYU Langone Orthopaedic Hospital | New York, NY

Leadership Positions | NYU Langone Orthopaedic Hospital

- 10/2020 | Chair, Orthopedic Innovation Center
- 01/2020 | Co-director of Orthopedic Innovation Center
- 12/2019 | Co-director of Computer Assisted Surgery and Robotics
- 02/2019 | Attending Surgeon | Adult Reconstruction Orthopedic Surgery

EDUCATION AND TRAINING

Education

- 10/1994 - 11/2001 | MD | Medicine | Shahid Beheshti University of Medical Sciences | Tehran, Iran

Postdoctoral Training

- 9/2001 - 09/2004 | Resident | Orthopaedic Surgery | Falsafi Hospital | Gorgan, Iran
- 07/2006 - 06/2007 | Internship | General Surgery | New York Methodist Hospital, Cornell University | Brooklyn, NY
- 12/2007 - 11/2009 | House Officer (PGY2) | Orthopaedic Surgery | Lenox Hill Hospital | New York, NY
- 11/2009 - 07/2011 | Fellow | Orthopaedic Surgery/Adult Reconstructive Orthopaedics | Ranawat Orthopaedics Research Foundation | Hospital for Special Surgery | New York, NY
- 08/2011 - 07/2012 | Fellow | Musculoskeletal Oncology | Washington Hospital Center | Georgetown University Hospital | Washington, DC
- 08/2012 - 07/2013 | Fellow | Orthopaedic Surgery/Adult Reconstructive Orthopaedics, Cornell University | The Methodist Hospital | Houston, TX

Specialty Certification

- 08/2017 | Harvard Business School | Executive Course | Healthcare Delivery | Boston, MA
- 04/2012 | Clinical Research Certificate (NIH) | Bethesda, MD
- 09/2005 | ECFMG Certification
- 02/2006 | USMLE, Step 3
- 08/2005 | USMLE, Step 2 (Clinical Skills)
- 08/2005 | USMLE, Step 2 (Clinical Knowledge)
- 11/2004 | USMLE, Step 1
- 07/2013 | Advanced Cardiac Life Support (ACLS)

Licensure

- 07/2013 | NY State Medical | 272057

PREVIOUS APPOINTMENTS AND LEADERSHIP POSITIONS

Administrative Leadership Positions

- 01/2014 – 2/2019 | Chief | Adult Reconstructive Orthopaedic Surgery | BronxCare Hospital | Bronx, NY
- 01/2014 – 2/2019 | Director | Adult Reconstructive Orthopaedic Fellowship | BronxCare Hospital | Bronx, NY

Hospital Appointment

- 01/2014 – 2/2019 | Attending Orthopaedic Surgeon | Orthopaedic Surgery | BronxCare Hospital | Bronx, NY

Other Professional Positions

- 10/2021 – 10/2022 | *President* | International Society for Technology in Arthroplasty (ISTA)
- 06/2017 – Present | *Board member* | International Society for Technology in Arthroplasty (ISTA)

AWARDS, HONORS, AND MEMBERSHIPS

- 2019 – Present | European Hip Society
- 2017 – Present | Harvard Alumni Club
- 2016 – Present | International Society for Technology in Arthroplasty (ISTA)
- 2014 – Present | Police Surgeon's Benevolent Association (PBA)
- 2012 – Present | American Academy of Hip and Knee Surgeons (AAHKS)
- 2012 – Present | Musculoskeletal Tumor Society (MSTS)
- 2011 – Present | American Academy of Orthopaedic Surgeons (AAOS)
- 2008 – Present | New York Medical Society (NYMS)
- 2006 – Present | American Medical Association (AMA)
- 2018 | EOA Resident Paper Award
- 2012 | EOA Fellow Paper Award
- 2012 | MedStar Fellow Research Award
- 2011 | EOA Resident Paper Award
- 2010 | Harley and Betty Baxter SOA Resident/Fellow Awards

- 2007 | Surgical Skills Award, NY Methodist Hospital / Brooklyn, NY
- 2006 | Kaplan Medical Honor / Washington DC
- 2001 | Merit Award, Honor of Early Graduation, Shahid Beheshti University / Tehran, Iran

RESEARCH ACTIVITY

Research Interest

- Outcomes of primary total hip and knee replacement in bundle payment
- Economics of total joints
- Innovation and design in hip and knee implants

EDUCATION ACTIVITY

Academic Leadership

- 01/2014 – 02/2019 | Fellowship director | Adult Reconstruction | BronxCare Hospital

Editorial and Journal Positions

- 2020 – present | Journal of Orthopaedic Experience & Innovation| Editorial board
- 2011 – present | Orthopedic Journal | Editorial review
- 2010 – present | Journal of Arthroplasty | Editorial review

Academic Activities

- Summer medical student program
- Weekly fellows meeting
- Teaching residents in clinic
- HRO rounds
- Jaffe lectures
- Journal club
- Medical student interviews
- Cadaver labs
- Innovation lectures
- CME lectures

PUBLICATIONS (94)

Original Articles (80)

1. Schwarzkopf R, *Meftah M*, Marwin SE, Zabat MA, Muir JM, Lamb IR. **The use of imageless navigation to quantify cutting error in total knee arthroplasty.** Knee Surgery & Related Research. 2021 Dec;33(1):1-9.
2. Singh V, Fiedler B, Kugelman DN, *Meftah M*, Aggarwal VK, Schwarzkopf R. **Effect of Marital Status on Outcomes Following Total Joint Arthroplasty.** Archives of Orthopaedic and Trauma Surgery. 2021 May 25:1-8.

3. Hepinstall M, Zucker H, Matzko C, *Meftah M*, Mont MA. **Adoption of Robotic Arm-Assisted Total Hip Arthroplasty Results in Reliable Clinical and Radiographic Outcomes at Minimum Two-Year Follow Up.** Surgical Technology International. 2021 May 17;38.
4. Singh V, Kugelman DN, Rozell JC, *Meftah M*, Schwarzkopf R, Davidovitch RI. **Impact of Preoperative Opioid Use on Patient Outcomes Following Primary Total Hip Arthroplasty.** Orthopedics. 2021 Mar 1;44(2):77-84.
5. Zak SG, Lygrisse K, Tang A, *Meftah M*, Long WJ, Schwarzkopf R. **Primary total hip arthroplasty outcomes in octogenarians.** Bone & Joint Open. 2021 Jul;2(7):535.
6. Singh V, Fiedler B, Simcox T, Aggarwal VK, Schwarzkopf R, *Meftah M*. **Does the Use of Intraoperative Technology Yield Superior Patient Outcomes Following Total Knee Arthroplasty?** The Journal of Arthroplasty. 2020 Nov 6.
7. Duenes M, Schoof L, Schwarzkopf R, *Meftah M*. **Complex Regional Pain Syndrome Following Total Knee Arthroplasty.** Orthopedics. 2020 Oct 1.
8. *Meftah M*, Siddappa VH, Johnson N, White PB, Mack A, Skoller M, Kirschenbaum IH. **Use of a Modified Rep Model in Primary Joint Arthroplasty: Lessons Learned.** Orthopedics. 2020 Sep 3.
9. Sharan M, Tang A, Schoof L, Gaukhman A, *Meftah M*, Sculco P, Schwarzkopf R. **Obesity does not influence acetabular component accuracy when using a 3D optical computer navigation system.** Journal of Clinical Orthopaedics and Trauma. 2020 Oct 3.
10. Tang A, Yeroushalmi D, Zak S, Lygrisse K, Schwarzkopf R, *Meftah M*. **The effect of implant size difference on patient outcomes and failure after bilateral simultaneous total knee arthroplasty.** Journal of Orthopaedics. 2020 Jun 22:282-287.
11. Siddappa VH, *Meftah M*. **Piriformis-Sparing Technique in Total Hip Arthroplasty with Posterolateral Approach.** Surgical technology international. 2020 May 2;36.
12. Siddappa VH, *Meftah M*. **Customized Knee Articulating Cement Spacer With Stem Extension for Treatment of Chronic Periprosthetic Joint Infection.** Surgical technology international. 2020 May 28;36:432-7.
13. Durand WM, *Meftah M*, Schwarzkopf R. **Risk Factors for Early Periprosthetic Fracture after Primary Total Hip Arthroplasty.** The Journal of Hip Surgery. 2020 Mar; 4(01):038-44.
14. Buchalter DB, Carpenter WE, Gabor JA, *Meftah M*, Long WJ, Schwarzkopf R. **Does Engagement in an Electronic Patient Rehabilitation Application Predict Outcomes After Total Joint Arthroplasty?** International Journal of Orthopaedics. 2020 Jun 28;7(3):1268-73.
15. Feng JE, Anoushiravani AA, Tesoriero PJ, Ani L, *Meftah M*, Schwarzkopf R, Leucht P. **Transcription Error Rates in Retrospective Chart Reviews.** Orthopedics. 2020 Jul 7.
16. Zana C, McAllister L, Soriano K, Moran S, *Meftah M*, Kirschenbaum I. **Retrospective Comparative Analysis of Opioid Issuance Trends for Total Joint Arthroplasty in 2014 and 2017.** Journal of Orthopaedic Experience & Innovation. 2020 Apr 8;1(1):12542.

17. Nuzhat N, Anaya M, de Queiroz Campos G, Silverman AR, Soriano K, Huang R, Meftah M, Kirschenbaum IH. **Characterizing Comorbidities in Total Joint Arthroplasty Patients in a Safety-Net Hospital Using the Age-Adjusted Charlson Comorbidity Index.** *Journal of Orthopaedic Experience & Innovation.* 2020 Mar 14;1(1):12159.
18. Mays RR, Benson JR, Muir JM, Meftah M. **Trends in cup position utilizing computer-assisted navigation during total hip arthroplasty: A retrospective observational study.** *Current Orthopaedic Practice.* 2020 May 1;31(3):211-7.
19. Meftah M, Siddappa VH, Muir JM, White PB. **Accuracy of Image-less Navigation for Functional Cup Positioning in Total Hip Arthroplasty.** *CAOS.* 2019 Oct 26;3:262-70.
20. Meftah M, Boenerjous-Abel S, Siddappa VH, Kirschenbaum IH. **Efficacy of Adductor Canal Block With Liposomal Bupivacaine: A Randomized Prospective Clinical Trial.** *Orthopedics.* 2019 Nov 26
21. Thompson R, Novikov D, Cizmic Z, Feng JE, Fideler K, Sayeed Z, Meftah M, Anoushiravani AA, Schwarzkopf R. **Arthrofibrosis After Total Knee Arthroplasty: Pathophysiology, Diagnosis, and Management.** *Orthopedic Clinics.* 2019 Jul 1;50(3):269-79.
22. Cizmic Z, Novikov D, Feng JE, Iorio R, Meftah M. **Alternative Payment Models in Total Joint Arthroplasty Under the Affordable Care Act.** *JBJS reviews.* 2019. DOI: 10.2106/JBJS.RVW.18.00061
23. Meftah M, Plassche G, Silverman A, White PB, Kirschenbaum I. **Total joint arthroplasty in immunocompromised patients a matched pair analysis for comorbidities.** *Current Ortho Practice.* 2019 (Published Ahead-of-Print)
24. Meftah M, White PB, Siddiqi A, Siddappa VH, Kirschenbaum I. **Tranexamic Acid Reduces Transfusion Rates in Obese Patients Undergoing Total Joint Arthroplasty.** *Surg Technol Int.* 2019 Feb 1;34
25. Novikov D, Cizmic Z, Feng JE, Iorio R, Meftah M. **The Historical Development of Value-Based Care: How We Got Here.** *J Bone Joint Surg Am.* 2018 Nov 21;100(22):e144
26. White PB, Carli AV, Meftah M, Ghazi N, Alexiades MM, Windsor RE, Ranawat AS. **Patients Discharged to Inpatient Rehabilitation Facilities Undergo More Diagnostic Interventions With No Improvement in Outcomes.** *Orthopedics.* 2018 Nov 1;41(6):e841-e847
27. Meftah M, White P, Siddiqi A, Perake V, Kirschenbaum I. **Routine Preoperative Venous Doppler Screening Is Not Effective in Preventing Thromboembolic Events After Total Joint Arthroplasty.** *Orthopedics.* 2018
28. White P, Ramkumar P, Meftah M, Ghazi N, Ranawat A, Ranawat C. **Incidence of Heterotopic Ossification Following a Multimodal Pain Protocol in Total Hip Arthroplasty with the Posterior Approach.** *Orthopedics.* 2018; 41

29. Bernstein DT, Meftah M, Paraniham J, Incavo SJ. **Eighty-six Percent Failure Rate of a Modular-Neck Femoral Stem Design at 3 to 5 Years: Lessons Learned.** *J Bone Joint Surg Am.* 2016 Jun 15;98 (12)
30. White PB, Meftah M, Ranawat AS, Ranawat CS. **A Comparison of Blood Metal Ions in Total Hip Arthroplasty Using Metal and Ceramic Heads.** *J Arthroplasty.* 2016 Oct;31(10):2215-20
31. Haleem AM, Meftah M, Ismaili S, Mitchell RJ, Noble P, Incavo SJ. **Range of motion after dual mobility total hip arthroplasty: Femoral head size and surgical approach – does it matter?** *The Texas Orthopaedic Journal*, 2018; Vol2 Issue1
32. Ranawat CS, Park CN, White PB, Meftah M, Bogner EA, Ranawat AS. **Severe Hand Osteoarthritis Strongly Correlates with Major Joint Involvement and Surgical Intervention.** *J Arthroplasty.* 2016 Aug;31(8):1693-7
33. Ranawat AS, Meftah M, Thomas AO, Thippanna RT, Ranawat CS. **Use of Oversized Highly Porous Cups in Acetabular Revisions.** *Orthopedics.* July 2016
34. Park CN, White PB, Meftah M, Ranawat AS, Ranawat CS. **Diagnostic Algorithm for Residual Pain After Total Knee Arthroplasty.** *Orthopedics.* 2016.
35. Ranawat A, Meftah M, Ranawat C. **Effects of Anatomic Patella on Anterior Knee Pain, Crepitation and Satisfaction: A Prospective Matched-Pair Analysis.** *Bone Joint J*, 2016. 98(SUPP 3), 128-128.
36. Meftah M, White PB, Ranawat AS, Ranawat CS. **Performance of Large Metal and Ceramic Heads on Highly Cross-link Polyethylene is Similar at Five-year Followup.** *Bone Joint J.* 2016; 98 (SUPP 3):116. P
37. Meftah M, White PW, Ranawat AS, Ranawat CS. **Long-term Results of Total Knee Arthroplasty in Young and Active Patients with Posterior Stabilized Design.** *The Knee*, Jan 2016
38. Ranawat CS, Meftah M, Nawabi D, Ramteke AA, Ranawat AS. **Long-term Clinical Results of a First Generation Annealed Highly Cross-Linked Polyethylene in Young and Active Patients.** *Orthopedics* 2016
39. Boraiah S, Joo L, Inneh IA, Rathod P, Meftah M, Band P, Bosco JA, Iorio R. **Management of Modifiable Risk Factors Prior to Primary Hip and Knee Arthroplasty.** *J Bone Joint Surg Am* 2015; 97(23): 1921-1928.
40. Ranawat CS, Ranawat AS, Lipman JD, White PB, Meftah M. **Effect of Spinal Deformity on Pelvic Orientation from Standing to Sitting Position.** *J Arthroplasty.* 2015 Dec 7.
41. John TK, Ghosh G, Ranawat CS, Ranawat AS, Meftah M. **Performance of Non-Cemented, Hemispherical, Rim-Fit, Hydroxyapatite Coated Acetabular Component.** *J Arthroplasty.* 2015 Dec 31;30(12):2233-6.

42. Nawabi DH, Meftah M, Nam D, Ranawat AS, Ranawat CS. **Durable fixation achieved with medialized, high hip center cementless THAs for Crowe II and III dysplasia.** *Clin Orthop Relat Res.* 2014; 472(2):630-6.
43. Meftah M, Haleem AM, Burn MB, Smith KM, Incavo SJ. **Early corrosion-related failure of the rejuvenate modular total hip replacement.** *J Bone Joint Surg Am.* 2014; 19;96(6): 481-7.
44. Noble PC, Fuller-Lafreniere S, Meftah M, Dwyer MK. **Challenges in Outcome Measurement: Discrepancies Between Patient and Provider Definitions of Success.** *Clin Orthop Relat Res.* 2013; 471(11):3437-45
45. Meftah M, Potter HG, Gold S, Ranawat AS, Ranawat AS, Ranawat CS. **Assessment of Reactive Synovitis in Rotating-Platform Posterior-Stabilized Design : A 10-Year Prospective Matched-Pair MRI Study.** *J Arthroplasty.* March 2013; 28(9):1551-5
46. Meftah M, John M, Lendhey M, Khaimov A, Ranawat AS, Ranawat CS. **Safety and Efficacy of Non-Cemented Femoral Fixation in Patients 75 Years of Age and Older.** *J Arthroplasty.* 2013; 28(8):1378-80
47. Meftah M, Schult P, Henshaw RM. **Long-term Results of Intralesional Curettage and Cryosurgery for Treatment of Low-Grade Chondrosarcoma.** *J Bone and Joint Surg,* 2013; 95-A(15):1358-1364
48. Meftah M, Yadav A, Wong AC, Ranawat AS, Ranawat CS. **A Novel Method for Accurate and Reproducible Functional Cup Positioning in Total Hip Replacement.** *J Arthroplasty.* 2013; 28(7):1200-5
49. Meftah M, Klingenstein GG, Yun RJ, Ranawat AS, Ranawat CS. **Long-Term Performance of Ceramic and Metal Femoral Heads on Conventional Polyethylene in Young and Active Patients: A Matched-Pair Analysis.** *J Bone and Joint Surg,* 2013; 95(13):1193-1197
50. Meftah M, Azim K, Incavo SJ. **Surgical Technique for Implantation of Articulating Spacers with Stem Extensions for Treatment of Infection Following Total Knee Arthroplasty.** *J Bone and Joint Surg Essential Surgical Techniques,* 2013; 12;3(2):e11, 1-6
51. Meftah M, Ranawat AS, Ranawat CS. **Tritanium Jumbo Cups in Revision Total Hip Arthroplasty with Major Acetabular Defects.** *J Bone and Joint Surg (Br).* 2013; 95-B (supp 34):491
52. Meftah M, Ranawat AS, Ranawat CS. **Performance of Highly Cross-Linked Polyethylene in Total Hip Arthroplasty in Young and Active Patients.** *J Bone and Joint Surg (Br).* 2013;. 95-B (supp 34):493
53. Haleem A, Ismaily S, Meftah M, Noble PC, Incavo SJ. **Range of Motion After Dual Mobility Total Hip Arthroplasty: Femoral Head Size and Surgical Approach - Does It Matter?** *J Bone and Joint Surg (Br).* 2013; 95-B (supp 34):72
54. Meftah M, Hwang K, Ismaily S, Incavo SJ, Mathis KB, Noble PC, **Functional Tibial Rotation: A Biomechanical Analysis.** *J Bone and Joint Surg (Br).* 2013; 95-B (supp 34):423

55. Meftah M, Ranawat AS, Ranawat CS. **Long-Term Quality of Modern Total Knee Arthroplasty With Extension First Gap Balancing Technique in Young and Active Patients.** *J Bone and Joint Surg (Br)*. 2013; 95-B (supp 34):126
56. Meftah M, Ranawat AS, Ranawat CS. **Osteointegration of Non-Cemented Metaphyseal Sleeves in Revision Total Knee Arthroplasty.** *J Bone and Joint Surg (Br)*. 2013; 95-B (supp 34):492
57. Ranawat CS, Meftah M, Ranawat AS. **The "Inside-Out" Technique for Correcting a Fixed Varus Deformity with Flexion Contracture in Total Knee Arthroplasty.** *J Bone and Joint Surg Essential Surgical Techniques*, 2012; 22;2(3):1-13
58. Meftah M, Jhurani A, Bhat JA, Ranawat AS, Ranawat CS. **Effect of Patella Replacement Technique on Patellofemoral Complications Anterior Knee Pain.** *J Arthroplasty*. 2012 Jun; 27(6):1075-80
59. Meftah M, Blum YC, Raja D, Ranawat AS, Ranawat CS. **Correcting Fixed Varus Deformity with Flexion Contracture during Total Knee Arthroplasty: The "Inside-Out" Technique.** *J Bone and Joint Surg (Am)*. 2012; 16;94(10):661-6
60. Meftah M, Wong AC, Nawabi DH, Yun RJ, Ranawat AS, Ranawat CS. **Pain management after total knee arthroplasty using a multimodal approach.** *Orthopedics*. 2012; 35(5)
61. Ranawat CS, Meftah M, Windsor EN, Ranawat AS. **Cementless fixation in total knee arthroplasty- down the boulevard of broken dreams.** *J Bone Joint Surg (Br)*. 2012; 94-B(11 Supple A): 82-84
62. Meftah M, Ranawat AS, Ranawat CS. **Ten-year follow-up of a rotating-platform, posterior-stabilized total knee arthroplasty.** *J Bone and Joint Surg (Am)*. 2012; 94(5):426-32
63. Mancuso CA, Ranawat AS, Meftah M, Koob TW, Ranawat CS. **Properties of the Patient Administered Questionnaires: New Scales Measuring Physical and Psychological Symptoms of Hip and Knee Disorders.** *J Arthroplasty* 2011; 27(4): 575-582
64. Meftah M, Ranawat AS, Ranawat CS. **Safety and Efficacy of a Rotating-Platform, High-Flexion Knee Design: 3- to 5-Year Follow-up,** *J Arthroplasty* 2012; 27(2):201-206
65. Meftah M, Ranawat AS, Sood AB, Rodriguez JA, Ranawat CS. **All-Polyethylene Tibial Implant in Young, Active Patients: A Concise Follow-Up, 10 to 18 years.** *J Arthroplasty* 2012; 27(1):10-14
66. Ranawat AS, Meftah M, Rodriguez-Elizalde S, Ranawat CS. **Minimum Five-Year Wear Analysis of First-Generation HXLPE in Patients 65 Years and Younger.** *J Arthroplasty* 2012;27(3):354-357
67. Meftah M, Ebrahimpour PB, He C, Ranawat AS, Ranawat CS. **Short-term Wear Analysis and Clinical Performance of Large Ceramic Heads on Highly Cross-linked Polyethylene in Young and Active Patients.** *Seminars in Arthroplasty* 2011; 22(4):225-228

68. Meftah M, Rodriguez JA, Panagopoulos G, Alexiades MM. **Long Term Results of Arthroscopic Labral Debridement: Predictors of Outcomes.** *Orthopaedics*, 2011; 34(10):588-92
69. Ranawat AS, Meftah M, Rodriguez-Elizalde S, Ranawat CS. **The Incidence of Anterior Knee Pain and Crepitation After Total Knee Replacement: A Matched Pair Analysis between Rotating Platform and Fixed Bearing PS Designs.** *Journal of ASTM International*, 2011; 8(10):6
70. Ranawat CS, Meftah M, Ranawat AS. **The Posterior Approach in Total Hip Arthroplasty: Assuring Capsular Stability.** *Orthopaedics*, 2011; 34(9):452-5
71. Ranawat CS, Rasquinha VJ, Meftah M, Ranawat AS. **The Hydroxyapatite-Tapered Stem: Any Added Value?** *Seminars in Arthroplasty*, 2011; 22(2):75-78
72. Meftah M, Ebrahimpour PB, He C, Ranawat AS, Ranawat CS. **Preliminary Clinical and Radiographic Results of Large Ceramic Heads on HXLPE.** *Orthopaedics* 2011; 34(6):133
73. Meftah M, Ranawat AS, Ranawat CS. **The Natural History of Anterior Knee Pain in 2 Posterior-Stabilized, Modular Total Knee Arthroplasty Designs.** *J Arthroplasty* 2011; 26(8):1145-1148
74. Ranawat AS, Schulz B, Baumbach SF, Meftah M, Ganz R, Leunig M. **Radiographic predictors of hip pain in femoroacetabular impingement.** *HSS Journal* 2011; 7(2):115-119
75. Meftah M, Katchis SD, Scharf SC, Mintz DN, Klein DA, Weiner LS. **Role of SPECT/CT in Management of Osteochondral Lesions of the Talus.** *Foot Ankle Int.* 2011 Mar;32(3):233-8.
76. Meftah M, Rodriguez J, Alexiades M. **Long Term Results of Hip Arthroscopy for Labral Tears, Predictors of Outcomes.** *J for Surgical Orthopaedic Advances*, 2010; 13(3): 180
77. Meftah M, Ranawat AS. **Patellar Crepitus after Total Knee Revision.** *Current Ortho Practice.* 2010; 21(5):538-540
78. Meftah M, Rodriguez JA. **Metal Allergy Response to Femoral Head-Neck Corrosion after Total Hip Replacement.** *Current Ortho Practice.* 2010; 21(5):530-533
79. Meftah M, Keefer EP, Yang SS. **Arthroscopic Wafer Procedure for Ulnar Impaction Syndrome, Prediction of Outcomes.** *Hand Surg.* 2010; 15(2):89-93
80. Meftah M, Moridpour D. **Results of Hyaluronic Acid Therapy in Osteoarthritis of the Knee Compared with the Results of NSAID Treatment.** *Pajouhandeh Journal.* 2003, 30(1):331-335

Book Chapters (14)

1. Noble P.C., Saadat A.A., Meftah M, Garrett K.E., Harris J.D.

- Book Chapter: Survivorship and Clinical Results After Hip Arthroscopy: How Should We Define a Good Treatment Option?** 2017 In: McCarthy J., Noble P., Villar R. (eds) Hip Joint Restoration. Springer, New York, NY
2. Morteza Meftah, MD, Anil S. Ranawat, MD, Amar S. Ranawat, MD, Chitranjan S. Ranawat, MD
Book Chapter: Total Hip Replacement Rehabilitation: Progression and Restrictions
Clinical Orthopaedic Rehabilitation: An Evidence-Based Approach Forth Edition, 2017
 3. Chitranjan S. Ranawat, MD, Morteza Meftah, MD, Amar S. Ranawat, MD
Book Chapter: Allpoly Total Knee Arthroplasty - 1/2014
The Knee: Reconstruction, Replacement, and Revision. Editor: Javad Parvizi, MD, FRCS
 4. Chitranjan S. Ranawat, MD, Morteza Meftah, MD, Amar S. Ranawat, MD
Book Chapter: Acetabular Positioning Using Bony Landmarks with Posterior Approach – 8/2013
Future Medicine, Total Hip Arthroplasty
 5. Phillip Noble, PhD, Morteza Meftah, MD
Book Chapter: How do we recognize a good Treatment Option? - 3/2013
Survivorship and Clinical Results of Hip Arthroscopy
 6. Morteza Meftah, MD, Amar S. Ranawat, MD, Javad Parvizi, MD, Chitranjan S. Ranawat, MD
Book Chapter, All-poly Tibial Component - 11/2012
The Knee: Reconstruction, Replacement, and Revision
 7. Morteza Meftah, MD, Mario John, Amar S. Ranawat, MD, Chitranjan S. Ranawat, MD
Book Chapter: The Posterior approach to Hip – *The Adult hip* 07/2012
 8. Morteza Meftah, MD, Anil S. Ranawat, MD, Edwin Su, MD
Book Chapter: Arthroplasty - 05/2011; *Techniques in Hip Arthroscopy and Joint Preservation*
 9. Morteza Meftah, MD, Amar S. Ranawat, MD, Chitranjan S. Ranawat, MD
Book Chapter: Balancing Technique in Total Knee Replacement - 06/2011
 10. Morteza Meftah, MD, Amar S. Ranawat, MD, Roberto Rossi, MD, Chitranjan S. Ranawat, MD
Book Chapter: Valgus knee - 05/2011
 11. Anil S. Ranawat, MD, Morteza Meftah, MD, Bryan Kelly, MD
Book Chapter: Introduction and Summary of Common Conditions in Sports Medicine
Making the complex simple, 2011
 12. Morteza Meftah, MD, Anil S. Ranawat, MD, Amar S. Ranawat, MD, Chitranjan S. Ranawat, MD
Book Chapter: Total Hip Replacement Rehabilitation: Progression and Restrictions
Clinical Orthopaedic Rehabilitation: An Evidence-Based Approach Third Edition, 2011
 13. Amar S. Ranawat, MD, Morteza Meftah, MD, Chitranjan S. Ranawat, MD
Book Chapter: The Current Role of Cemented Total Hip Arthroplasty
Orthopaedic Knowledge Update: Hip and Knee Reconstruction – 4, 2011

14. *Morteza Meftah, MD*, Javad Parvizi, MD, Giles R. Scuderi, MD
Book Chapter: Charcot Neuroarthropathy
 IEP web-based Textbook, Total Joint Replacement, www.totaljoint-iep.com

PRESENTATIONS

- 8th ANNUAL MASTERCLASS IN SURGERY 12/2021
- ***Complex Acetabular reconstruction with cup in cup technique***
- AAHKS ANNUAL MEETING / Dallas, TX 11/2021
- ***Outcomes of a Monoblock Dual Mobility Cup Cemented into a Fully Porous Acetabular Component in Revision Total Hip Arthroplasty***
 - ***Impact of Pre-Operative Anemia Severity on Primary Total Knee Arthroplasty Outcomes***
- ISTA / Virtual Meeting 10/2021
- ***Emerging Technologies in Arthroplasty™: Advancing Outcomes***
- Becker's ASC meeting / Chicago, IL 10/2019
- ***Optimizing Cost of Total Joints in an ASC Setting: Implants Negotiations and Use of Technology***
- 2021 Sir Robert Jones Lecture / New York, NY 09/2021
- ***Salvage of a Persistent Hip Instability with Extreme Lumbosacral Deformity***
- AAOS ANNUAL MEETING / San Diego, CA 08/2021
- ***Does the Use of a Tourniquet Influence Outcomes in Total Knee Arthroplasty? A Randomized Controlled Trial***
 - ***Primary Total Hip Arthroplasty Outcomes in Octogenarians***
- 2020 Sir Robert Jones Lecture / New York, NY 09/2020
- ***Salvage of a Persistent Hip Instability with Extreme Lumbosacral Deformity***
- NYU Langone Orthopedic Webinar Series / New York, NY 05/2020
- ***Optimizing Hip and Knee Replacement with Technology: Today and the Future***
- Becker's ASC meeting / Chicago, IL 10/2019
- ***Transitioning from Inpatient Joints to ASC: Pre-op optimization, OR management and Meaningful Post-op Data Collection***
- EOA, 50th ANNUAL MEETING / Miami Beach, FL 10/2019
- ***Accuracy of Image-Less Navigation for Functional Cup Positioning and Restoration of Leg Length in Total Hip Arthroplasty: A Matched Comparative Analysis***
- ISTA / 32nd ANNUAL CONGRESS / Toronto, Ca 10/2019
- ***Accuracy of Image-Less Navigation for Functional Cup Positioning and Restoration of Leg Length in Total Hip Arthroplasty: A Matched Comparative Analysis***
 - ***Shark Tank Symposium moderator***
 - ***Safety Criteria for Short Hospital Stay After Total Joint Replacement***
 - ***Tourniquet-Free Total Knee Arthroplasty: Technique and Results***
 - ***Utilization of a Repliss Model in Primary Joint Arthroplasty: Lessons Learned***

- *Piriformis Sparing Technique in Total Hip Arthroplasty With Posterolateral Approach*
- *Peri-Articular Injection Has Longer Pain Relief Than Regional Adductor Canal Block Using Extended Release Liposomal Bupivacaine in Total Knee Arthroplasty: A Randomized Prospective Clinical Trial*
- *Opioid Use in Arthroplasty Symposium moderator*
- *Acetabular Component Positioning Symposium moderator*
- *Trends in Cup Position Utilizing Computer-Assisted Navigation During Total Hip Arthroplasty*
- *Customized Articulating Cement Spacer With Stem Extension for Treatment of Periprosthetic Joint Infection*
- *Transcriptional Error Rates in Retrospective Chart Reviews*
- *Arthrofibrosis After Total Knee Arthroplasty: Pathophysiology, Diagnosis, and Management*
- *Tranexamic Acid*

CAOS / 19th ANNUAL MEETING / New York, NY 06/2019

- *Workshop: Integrated Digital Health Care Systems: An Arms Race for Data Control*
- *Knee I, moderator*
- *Accuracy of Image-Less Navigation for Functional Cup Positioning in Total Hip Arthroplasty*
- *Trends in Cup Position Utilizing Computer-Assisted Navigation During Total Hip Arthroplasty*

AAOS ANNUAL MEETING / Las Vegas, NV 03/2019

- *Optimizing a Replless Model*

AAHKS ANNUAL MEETING / Dallas, TX 11/2018

- *Utilization of a Replless Model: Lessons Learned*

Becker's ASC meeting / Chicago, IL 10/2018

- *Peri-operative management of Outpatient Joint Replacement: Pain control and Complications*

ISTA / 31th ANNUAL CONGRESS / London, UK 10/2018

- *Utilization of a Replless Model in Primary Joint*
- *Tranexamic Acid Reduces Blood Loss During Joint Replacement in Obese Patients*
- *Pre-Operative Dopplers Are Useless in Prevention of Deep Venous Thrombosis or Pulmonary Embolism After Total Joint Replacement*
- *Results of RP-TC3 in revision knee arthroplasty*
- *Safety Criteria for Short Hospital Stay After Total Joint Replacement*

Becker's ASC meeting / Chicago, IL 10/2017

- *Results of Joints at ASC*

SICOT / 38th WORLD CONGRESS / Cape Town, South Africa 11/2017

- *Routine Preoperative Venous Doppler Screening is Not Efficient in Preventing Thromboembolic Events after Total Joint Arthroplasty*
- *Utilization of a Replless Model in Primary Joint Arthroplasty*
- *Arthroplasty with the Posterior Approach*
- *Tranexamic Acid Reduces Blood Loss and Transfusion Rate in Obese Patients Undergoing Total Joint Arthroplasty*
- *Safety Criteria for Short Hospital Stay after Total Joint Replacement*
- *Utilization of a Replless Model in Primary Joint Arthroplasty*
- *High Revision Rate Of the Rejuvenate Modular Neck Femoral Stem At 3-5 Years Follow-Up*

SOUTHERN ORTHOPAEDIC ASSOCIATION, 34th ANNUAL MEETING / Hilton Head Island, SC 08/2017

- *Deployment and Outcomes of an Outpatient Protocol in an Inpatient Setting*

ISTA / 29th ANNUAL CONGRESS / Boston, MA

10/2016

- *Utilization of a Replis Model in Primary Joint*
- *High Revision Rate of the Rejuvenate Modular Neck Femoral Stem at 3 - 5 Years Follow-Up*
- *Tranexamic Acid Reduces Blood Loss During Joint Replacement in Obese Patients*
- *Pre-Operative Dopplers Are Useless in Prevention of Deep Venous Thrombosis or Pulmonary Embolism After Total Joint Replacement*
- *Incidence and Magnitude of Metal Ion Levels in Blood With Large Ceramic and Metal Femoral Heads: A Prospective Study With Five-Year Follow-Up*
- *Safety Criteria for Short Hospital Stay After Total Joint Replacement*
- *Combination of Celecoxib and Aspirin Reduces the Incidence of Heterotopic Ossification After Total Hip Arthroplasty*
- *5-Year Wear Analysis and Performance of Large Diameter Delta Ceramic Heads on Highly-Cross Linked Polyethylene*
- *Clinical and Radiographic Results of Attune and PFC Sigma Knee Designs at 2 Year Follow-Up: a Prospective Matched Pair Analysis*

ICJR / TRANS ATLANTIC ANNUAL MEETING / New York, NY

10/2016

- *High Revision Rate Of The Rejuvenate Modular Neck Femoral Stem At 3 – 5 Years Follow-Up*
- *Safety Criteria For Short Hospital Stay After Total Joint Replacement*
- *Tranexamic Acid Reduces Blood Loss During Joint Replacement In Obese Patients*
- *Combination Of Celecoxib And Aspirin Reduces The Incidence Of Heterotopic Ossification After Total Hip Arthroplasty*

SICOT / 37th WORLD CONGRESS / Rome, Italy

09/2016

- *Safety Criteria for Short Hospital Stay After Total Joint Replacement*
- *Clinical and Radiographic Results of Attune and PFC Sigma Knee Designs at 2 Year Follow-Up: a Prospective Matched Pair Analysis*
- *Incidence and Magnitude of Metal Ion Levels in Blood With Large Ceramic and Metal Femoral Heads: A Prospective Study With Five-Year Follow-Up*

EFORT / 16th ANNUAL MEETING / Prague, Czech Republic

06/2016

- *Tranexamic Acid Reduces Blood Loss During Joint Replacement In Obese Patients*
- *Incidence and Magnitude of Metal Ion Levels in Blood With Large Ceramic and Metal Femoral Heads: A Prospective Study With Five-Year Follow-Up*
- *High Revision Rate Of The Rejuvenate Modular Neck Femoral Stem At 3 – 5 Years Follow-Up*

ISTA / 28th ANNUAL CONGRESS / Vienna, Austria

09/2015

- *Performance Of Large Metal And Ceramic Heads On Highly Crosslinked Polyethylene Are Similar At 5-Year Follow-Up*
- *Pre-Operative Dopplers Are Useless in Prevention of DVT or Pulmonary Embolism*
- *A Readmission Risk Assessment Tool to Manage Modifiable Risk Factors Prior to Primary Hip and Knee Arthroplasty*
- *Performance of a First Generation HXL Polyethylene in Young and Active Patients*
- *Durability of a Non-Cemented, Hemispherical, Rim-Fit, Hydroxyapatite Coated Cup*
- *Effect of Spinal Deformity on Pelvic Orientation from Standing to Sitting Position*
- *Tranexamic Acid in Morbidly Obese Patients*

SWIFTPATH / 2th ANNUAL MEETING / Seattle, WA

06/2015

- *Outpatient Joint replacement: The Bronx-Lebanon Experience*

- EFORT / 16th ANNUAL MEETING / Prague, Czech Republic 05/2015
- *Safety Fixation Of A Non-Cemented, Hydroxyapatite Coated Rim-Fit Acetabular Component*
 - *Performance of Highly Cross-Linked Polyethylene in THA in Patients < 55 Years-old*
 - *Arthroplasty In Young And Active Patients Using Extension First GapBalancing Technique*
 - *Tritanium Jumbo Cups In Revision Total Hip Arthroplasty With Major Acetabular Defects*
- AAOS / 2015 ANNUAL MEETING / Las Vegas, NV 03/2015
- *Moderator: Debate: 48 hrs vs, 4 hrs: which is the ideal length of stay?
Chitranjan Ranawat - Graig McAllister*
 - *Effect of Lumbosacral Spine on Pelvic Orientation and Cup Positioning*
- EFORT / 15th ANNUAL MEETING / London, UK 06/2014
- *Safety and Efficacy of Tritanium Jumbo Cups in Revision Total Hip Arthroplasty*
 - *Performance of Highly Cross-Linked Polyethylene in THA in Young and Active Patients*
- MID-AMERICA ORTHOPAEDIC ASSOCIATION / San Antonio, TX 04/2014
- *Unexpected High Rates of Corrosion Related Revisions in Modular Neck Rejuvenate Stem*
- AAOS / 2014 ANNUAL MEETING / New Orleans, LA 03/2014
- *Severity of Hand OA: A Predictor of Major Joint Involvement and Surgical Intervention*
 - *Effect of Lumbosacral Spine on Pelvic Orientation and Cup Positioning*
 - *Modified Anterolateral Approach with Femoral Anterior Cortical Window for Revision THA*
 - *Range of Motion after Dual Mobility Total Hip Arthroplasty*
- AAHKS / 23rd ANNUAL MEETING / Dallas, TX 11/2013
- *Performance Of Highly-Cross Linked Polyethylene in Young and Active Patients*
- ISTA / 26th ANNUAL CONGRESS / West Palm Beach, FL 10/2013
- *Unexpected High Rates of Corrosion Related Revisions in Modular Neck Rejuvenate Stem*
 - *Functional Tibial Rotation: A Biomechanical Analysis*
 - *Assessment of Particle Induced Reactive Synovitis in Fixed and Mobile Bearing TKA*
 - *Long-Term Quality of Modern Total Knee Arthroplasty in Young and Active Patients*
 - *Performance of Highly Cross-Linked Polyethylene in THA in Young and Active Patients*
 - *Osteointegration of Non-Cemented Metaphyseal Sleeves in Revision Total Knee Arthroplasty*
 - *Tritanium Jumbo Cups in Revision Total Hip Arthroplasty With Major Acetabular Defects*
 - *Novel Method for Patient Specific Acetabular Guides Based on Notch Fit Geometry*
 - *A Vessel Preserving Posterior Surgical Hip Dislocation*
- HIP SOCIETY MEETING / Charleston, SC 10/2013
- *Dual Mobility Total Hip Arthroplasty. Effect of Head Size and Surgical Approach*
 - *Unexpected High Rates of Corrosion Related Revisions in Rejuvenate Stem*
- EASTERN ORTHOPAEDIC ASSOCIATION, 44rd ANNUAL MEETING / Miami Beach, FL 10/2013
- *Predicting Factor For High Metal Ions and Failures Of Rejuvenate Modular Neck THA*
 - *Long-Term Quality Of Total Knee Arthroplasty In Young And Active Patients*
- KNEE SOCIETY MEETING / Toronto, Canada 09/2013
- *Osteointegration of Non-Cemented Metaphyseal Sleeves in Revision Total Knee Arthroplasty*
 - *10-Year Follow-up of Total Knee Arthroplasty in Young and Active Patients*

- SOUTHERN ORTHOPAEDIC ASSOCIATION, 30th ANNUAL MEETING / Palm Beach, FL 07/2013
- *Year Wear Analysis And Performance Of Large Diameter Delta Ceramic Heads On HXLPE*
 - *Assessment Of Particle Induced Reactive Synovitis In Fixed And Mobile Bearing PS TKA*
 - *Performance Of Highly Cross-Linked Polyethylene In THA in Young And Active Patients*
 - *Tritanium Jumbo Cups In Revision Total Hip Arthroplast With Major Acetabular Defects*
- EFORT / 14th ANNUAL MEETING / Istanbul, Turkey 06/2013
- *Wear Reduction in Rotating-Platform Posterior-Stabilized Designs*
 - *A Novel Method for Accurate and Reproducible Functional Cup Positioning*
 - *10-Year Follow-up of TKA Using Gap Balancing Technique in Young and Active Patients*
 - *Osseointegration of Tritanium Acetabular Components in Revision Total Hip Arthroplasty with Major Acetabular Defects*
- AAOS / 2013 ANNUAL MEETING / Chicago, IL 03/2013
- *Long-term Results of Cryosurgery in Treatment of Chondrosarcoma*
 - *A Novel Method for Accurate and Reproducible Functional Cup Positioning in Total Hip Replacement*
 - *Comparative in-vivo Wear analysis of Fixed-bearing and Rotating Platform in Total Knee Arthroplasty using Magnetic Resonance Imaging*
- AAHKS / 22nd ANNUAL MEETING / Dallas, TX 11/2012
- *Comparative in-vivo Wear analysis of Rotating Platform and Fixed-bearing in Total Knee Arthroplasty using Magnetic Resonance Imaging*
- SOUTHERN ORTHOPAEDIC ASSOCIATION, 29th ANNUAL MEETING / White Sulphur Springs, WV 07/2012
- *Long-term Results of Cryosurgery in Treatment of Low-grade Chondrosarcoma*
 - *Long-term Results of Rotating-Platform PS TKA in Young, Active Patients*
- EASTERN ORTHOPAEDIC ASSOCIATION, 43rd ANNUAL MEETING / Sagamore, NY 06/2012
- *Long-term Results of Cryosurgery in Treatment of Chondrosarcoma*
- EFORT / ANNUAL MEETING / Berlin, Germany 05/2012
- *Effect of Patella Replacement Technique on Patellofemoral Complications Anterior Knee Pain*
- RESEARCH DAY PRESENTATION / WASHINGTON HOSPITAL CENTER / GEORGETOWN UNIVERSITY 04/2012
- *Long-term Results of Cryosurgery in Treatment of Chondrosarcoma*
- AAOS / 2012 ANNUAL MEETING / San Francisco, CA 02/2012
- *Properties of the Patient Administered Questionnaires: New Scales Measuring Physical and Psychological Symptoms of Hip and Knee Disorders*
- EASTERN ORTHOPAEDIC ASSOCIATION, 42nd ANNUAL MEETING / Williamsburg, VA 09/2011
- *Long-term Survivorship and Wear Analysis in Young, Active Patients: A Matched Pair Analysis of Ceramic and Metal on Polyethylene*
- ANNUAL ALUMNI DAY RESEARCH / LENOX HILL HOSPITAL / Manhattan, NY 06/2011
- *All Polyethylene Tibial Component in Young, Active Patients: Minimum 10 Years Follow-up*
- AAOS / 2011 ANNUAL MEETING / San Diego, CA 02/2011
- *All Polyethylene Tibial Component in Young, Active Patients: Minimum 10 Years Follow-up*
 - *Correcting Varus Deformity with Flexion Contracture during TKR: The "Inside-Out" Technique*
 - *Poor correlation between pain and radiographic findings in FAI*

- *Arthroscopic Wafer Procedure for Ulnar Impaction Syndrome, Prediction of Outcomes*
AAHKS / 20th ANNUAL MEETING / Texas 11/2010
 - *Mid-Term Results of a High-flexion Knee Design*
- EASTERN ORTHOPAEDIC ASSOCIATION, 41ST ANNUAL MEETING / Naples, FL 10/2010
 - *Mid-Term Results of a High-flexion Knee Design*
 - *“Internal Rotation” Test, Prediction of Capsular Healing after Total Hip Replacement*
- 7th SICOT/SIROT ANNUAL INTERNATIONAL MEETING / Gothenburg, Sweden 10/2010
 - *Long Term Results of Hip Arthroscopy for Labral Tears, Predictors of Outcomes*
- 12TH COMBINED ORTHOPAEDIC MEETING / Glasgow, UK 09/2010
 - *Long Term Results of Hip Arthroscopy for Labral Tears, Predictors of Outcomes*
- ANNUAL ALUMNI DAY RESEARCH / LENOX HILL HOSPITAL / Manhattan, NY 06/2010
 - *Long-term Results of a Rotating-Platform PS TKR Design*
- SOA ANNUAL MEETING / Porto Rico 06/2010
 - *Long Term Results of Hip Arthroscopy for Labral Tears, Predictors of Outcomes*
- ISHA ANNUAL MEETING / HOSPITAL FOR SPECIAL SURGERY / Manhattan, NY 10/2009
Morteza Meftah, MD, Michael M. Alexiades, MD, Jose A. Rodriguez, MD
 - *Long Term Results of Hip Arthroscopy for Labral Tears, Predictors of Outcomes*
- GROUND ROUND PRESENTATION / LENOX HILL HOSPITAL / Manhattan, NY 08/2009
Morteza Meftah, MD, Aruna M. Seneviratne, MD
 - *Distal Femoral Varus Opening Wedge Osteotomy*
- ANNUAL ALUMNI DAY RESEARCH / LENOX HILL HOSPITAL / Manhattan, NY 05/2009
Morteza Meftah, MD, Lon S. Weiner, MD, Stuart D. Katchis, MD, Stephen C. Scharf, MD
 - *Role of SPECT/CT in Management of Osteochondral Lesions of the Talus*

VOLUNTEER SERVICES

- 2019 – 2020 | COVID-19 PPE project
- 2012 – 2013 | Resident OITE Exam Review | Methodist Hospital | Houston, TX
- 2009 – 2010 | Football Team Physician | John F Kennedy High School | Bronx, NY
- 2008 – 2009 | Boxing Team Physician | New York Athletic Club | New York, NY
- 2005 – 2008 | Coordinator | Cherry Blossom Seminal | Washington DC
- 2007 – 2008 | Lab Research | Center for Biomedical Genomics | George Mason University | VA
- 2005 – 2006 | Orthopaedic Surgical Assistant | Sibley Memorial Hospital | Washington, DC
- 2005 – 2006 | Orthopaedic Surgical Assistant | Inova Fairfax Hospital | Fairfax, VA

PATENTS

1. FULL FACE MASK PPE | United States Provision utility patent application
2. SURGICAL SYSTEM WITH INTRA-OPERATIVE 3D SCAN | United States Non-Provision utility patent application, 62620448

3. SYSTEM AND METHOD FOR MEDICAL OBJECT TRACKING | United States Non-Provision utility patent application, 16/573,095; publication # 20210077199; 20210077198; 20210080563
4. METHOD FOR ORIENTING AN ACETUBULAR CUP AND INSTRUMENTS FOR USE THEREWITH | United States Patent Application, 20130046310
5. FEMORAL COMPONENT FOR A HIP PROSTHESIS | United States Patent Application: US20140343685A1, Nov 2014

INSTRUMENT DESIGNS

1. Posterior Cruciate Ligament Protector for Use in Cruciate Retaining Designs; Innomed
2. Universal gap Balancing Device for Use in Total Knee Arthroplasty; Innomed
3. Revision knee osteotome; Innomed
4. Graft Box; Innomed
5. Rongeur; Innomed

INTELLECTUAL PROPERTIES AND STARTUPS

1. SURNOVA: Post-surgical dressing and wound care
2. CAIRA Surgical: Surgical navigation with radar tracking
3. CONSTANCE: Artificial Intelligence in orthopedic risk stratification and profiling
4. COVID full face mask, co-development with NYU
5. Surgical ray optimization using image recognition and scanners; co-development with MedTel
6. Knee implant positioning using AI, co-development with Enhatch and Signal medical