



AAHKS YAG Comprehensive Arthroplasty Resource Guide for Residents

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5.) Research Resources

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- **Basics**
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 - Biomechanics of the Knee
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- **Primary Knee Arthroplasty**
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 - Kinematic vs Mechanical Alignment
 - Measured Resection vs Gap Balancing
 - Implant Designs Total Knee Arthroplasty
 - Rotational Positioning
 - Coronal and Sagittal Balancing for TKA
 - Extra-articular Deformity
 - TKA in the Valgus Knee
 - TKA in the Varus Knee
 - Patellar Resurfacing
 - Unicompartmental Knee Arthroplasty
 - Bilateral TKA
 - Functional Outcomes
 - Techniques for Primary TKA
 - Surgical Approaches for TKA
 - Primary TKA
 - Robotic primary TKA
 - TKA with Previous Hardware

- **Revision Knee Arthroplasty**
 - Revision Total Knee Arthroplasty: Evaluation
 - Bone Loss in Revision TKA
 - Complications
 - Nerve Injury

- Periprosthetic Fracture
- Periprosthetic Joint Infections
- Instability
- Arthrofibrosis
- Patellar Maltracking, Instability/Dislocation, Patellar Clunk
- Extensor Mechanism Disruption
- Salvage Procedures and Failed Revision Total Knee Arthroplasty
- Revision Total Knee Arthroplasty Techniques
 - Extensile approaches
 - Component removal
 - PJI Management
 - ORIF of Periprosthetic Distal Femur Fracture
 - Hinge Knee Replacement
 - Extensor Mechanism Reconstruction

1.) Online Resources:

- Hip & Knee Book:
 - o <https://hipandkneebook.com/>
- Orthobullets Adult Reconstruction Section:
 - o <https://www.orthobullets.com/topic/dashboard?id=5&specialty=5&expandLeftMenu=true>
- AAOS ROCK – Adult Reconstruction Section:
 - o <https://www.aaos.org/education/resident-orthopaedic-core-knowledge/>
- AAOS Res Study – Adult Reconstruction Question Bank:
 - o <https://www.aaos.org/education/examinations/ResStudy/>
- JBJS Clinical Classroom
 - o <https://jbjspages.jbjs.org>
- Wheelless Textbook of Orthopedics
 - o <https://www.wheelsonline.com/joints/hip/>
 - o <https://www.wheelsonline.com/joints/knee/>
 - o <https://www.wheelsonline.com/arthritiis/>
- The Hip and Knee Society Learning SHAK:
 - o <https://ccjr.mclms.net/en/>

2.) Online Video Series :

- Fellows Orthopaedic Continued AAHKS Learning Videos
 - o <https://www.aahks.org/focal/>
- AAOS Orthopaedic Video Theater – Adult Recon Section:
 - o <https://www.aaos.org/education/orthopaedic-video-theater/>
- HSS Orthopaedic Surgical Videos (YouTube)
 - o <https://www.youtube.com/@orthopaedicsurgicalvideos9653>
- NYU Langone Orthopedic Digital Library – Adult Reconstruction Section:
 - o <https://www.ortholib.org/coursecategory/adult-reconstruction/>

3.) Textbooks:

- *Orthopaedic Knowledge Update: Hip and Knee Reconstruction*
 - o by Michael A. Mont, MD, Michael Tanzer MD FRCS
- *Operative Techniques in Joint Reconstruction Surgery Third Edition*

- by Edwin P. Su MD, Seth Jerabek MD
- *Campbell's Operative Orthopaedics, 4-Volume Set 14th Edition*
 - By Frederick M. Azar MD, S. Terry Canale M.D, James H. Beaty MD
- *Illustrated Tips and Tricks in Hip and Knee Reconstructive and Replacement Surgery*
 - By Daniel J. Berry MD, Mark W. Pagnano, MD

4.) In-Person Courses:

- AO Recon Course – Principles of Total Hip and Total Knee Arthroplasty:
 - https://events.aona.org/event/eventdetailresp/9684?_ga=2.116595973.2013371041.1688932780-852154412.1687641298#AONA
- AAHKS Resident Arthroplasty Course:
 - <https://meeting.aahks.org/aahks-courses/resident-arthroplasty-course/>
- AAOS/Hip Society/Knee Society Comprehensive Resident Total Hip & Knee Course: From Cutting Your Teeth to Cutting Out Implants
 - April 19-21, 2024
 - <https://www.aaos.org/education/courses/2403389/>

5.) Research Resources:

- JOA Reviewer Mentorship Program
 - <https://www.aahks.org/focal/joa-reviewer-mentorship-program/>

6.) Topic Based Resources/Relevant Literature:

Basics:

- **History and Physical Exam of the Hip**
 - Videos:
 - Physical Examination of the Hip: <https://www.youtube.com/watch?v=XPqOePfGjaE>
 - Relevant Literature:
 - Pietrzak JR, MJ Donaldson, B Kayani, and FS Haddad. "Painful total hip arthroplasty." *Orthopaedics and Trauma* 32, no. 1 (2018): 38-44.
- **History and Physical Exam of the Knee**
 - Videos:
 - Physical Examination Knee: <https://www.youtube.com/watch?v=pquonuCOHms>
 - Relevant Literature:
 - Flierl MA, AH Sobh, BM Culp, EA Baker, and SM Sporer. "Evaluation of the painful total knee arthroplasty." *JAAOS-Journal of the American Academy of Orthopaedic Surgeons* 27, no. 20 (2019): 743-751.
 - Dennis DA. "Evaluation of painful total knee arthroplasty." *The Journal of arthroplasty* 19.4 (2004): 35-40.
- **Radiographic Evaluation of the Hip**
 - Websites:
 - <https://radiologyassistant.nl/musculoskeletal/hip/arthroplasty>
 - Relevant Literature:

- Della Valle AG, DE Padgett, and EA. Salvati. "Preoperative planning for primary total hip arthroplasty." *JAAOS-Journal of the American Academy of Orthopaedic Surgeons* 13, no. 7 (2005): 455-462.
 - Clohisy JC., JC. Carlisle, PE Beaulé, YJ Kim, RT Trousdale, RJ Sierra, M Leunig, PL Schoenecker, and MB Millis. "A systematic approach to the plain radiographic evaluation of the young adult hip." *The Journal of Bone and Joint Surgery. American volume.* 90, no. Suppl 4 (2008): 47.
- **Radiographic Evaluation of the Knee**
 - Relevant Literature:
 - Tanzer M and AM Makhdom. "Preoperative planning in primary total knee arthroplasty." *JAAOS-Journal of the American Academy of Orthopaedic Surgeons* 24, no. 4 (2016): 220-230
 - Sarmah SS, S Patel, FS Hossain, and FS Haddad. "The radiological assessment of total and unicompartmental knee replacements" *Bone and Joint Journal.* 94-B, no. 10 (2012): 1321-1329
 - Math KR, SF Zaidi, C Petchprapa, and SF Harwin. "Imaging of total knee arthroplasty." In *Seminars in musculoskeletal radiology*, vol. 10, no. 01, pp. 047-063.
 - Kumar N, C Yadav, R Raj, and Sumit Anand. "How to interpret postoperative X-rays after total knee arthroplasty." *Orthopaedic surgery* 6, no. 3 (2014): 179-186.
 - Meneghini RM, MA Mont, DB Backstein, RB Bourne, DA Dennis, and GR Scuderi. Development of a Modern Knee Society Radiographic Evaluation System and Methodology for Total Knee Arthroplasty. *J Arthroplasty.* 2015;30(12):2311-4.
- **Biomechanics of the Hip**
 - Book Chapters:
 - Chapter 19 - Biomechanics and joint replacement of the hip (Basic Orthopaedic Sciences: The Stanmore Guide)
 - Relevant Literature:
 - Van Houcke J, V Khanduja, C Pattyn, and E Audenaert. "The history of biomechanics in total hip arthroplasty." *Indian Journal of Orthopaedics* 51 (2017): 359-367.
- **Biomechanics of the Knee**
 - Book Chapters:
 - Chapter 20 - Biomechanics and joint replacement of the knee (Basic Orthopaedic Sciences: The Stanmore Guide)
 - Relevant Literature:
 - Shenoy R, PS Pastides, and D Nathwani. "(iii) Biomechanics of the knee and TKR." *Orthopaedics and Trauma* 27, no. 6 (2013): 364-371.
- **Nonsurgical Management of Osteoarthritis**
 - Overview:
 - 2023 AAOS Management of Osteoarthritis of the Hip Evidence-Based Clinical Practice Guidelines
 - 2021 AAOS Management of Osteoarthritis of the Knee Evidence-Based Clinical Practice Guidelines

- Relevant Literature:
 - Brophy, RH, and YA Fillingham. "AAOS clinical practice guideline summary: management of osteoarthritis of the knee (nonarthroplasty)." *Journal of the American Academy of Orthopaedic Surgeons* 30, no. 9 (2022): e721-e729
 - Rees HW. "Management of osteoarthritis of the hip." *JAAOS-Journal of the American Academy of Orthopaedic Surgeons* 28, no. 7 (2020): e288-e291.
 - Skou ST., EM Roos, MB Laursen, MS Rathleff, L Arendt-Nielsen, O Simonsen, and S Rasmussen. "A randomized, controlled trial of total knee replacement." *New England Journal of Medicine* 373, no. 17 (2015): 1597-1606.
- **Perioperative Treatment of Patients Undergoing Arthroplasty**
 - Overview:
 - "Arthroplasty Preoperative Medical Optimization" *Orthobullets*. <https://www.orthobullets.com/recon/422808/arthroplasty-preoperative-medical-optimization>
 - "Modify risk factors" *Hip and Knee Book*. <https://hipandkneebook.com/pt-risk-factors>
 - Relevant Literature:
 - Summers S, N Mohile, C McNamara, B Osman, R Gebhard, and VH Hernandez. "Analgesia in total knee arthroplasty: current pain control modalities and outcomes." *JBJS* 102, no. 8 (2020): 719-727.
 - McGrory BJ, KL Weber, DS Jevsevar, and K Sevarino. "Surgical management of osteoarthritis of the knee: evidence-based guideline." *Journal of the American Academy of Orthopaedic Surgeons* 24, no. 8 (2016): e87-e93.
 - Lieberman JR, and JA Bell. "Venous Thromboembolic Prophylaxis After Total Hip and Knee Arthroplasty." *JBJS* 103, no. 16 (2021): 1556-1564.
 - Wyles CC, M Hevesi, DR Osmon, MA Park, EB Habermann, DG Lewallen, DJ Berry, and RJ Sierra. "Increased risk of prosthetic joint infection following primary total knee and hip arthroplasty with the use of alternative antibiotics to cefazolin: the value of allergy testing for antibiotic prophylaxis." *Bone & Joint Journal* 101-B (2019): 9-15.

Primary Hip Arthroplasty:

- **Indications for THA:**
 - Overview:
 - "Cause for THA" *Hip and Knee Book*. <https://hipandkneebook.com/causes-of-tha>
 - **Dysplasia of the Hip**
 - Overview:
 - "Adult Dysplasia of the Hip" *Orthobullets*. <https://www.orthobullets.com/recon/5008/adult-dysplasia-of-the-hip>
 - Relevant Literature:
 - Sanchez-Sotelo J, RT Trousdale, DJ Berry, and ME Cabanela. "Surgical treatment of developmental dysplasia of the hip in adults: I. Nonarthroplasty options." *JAAOS-Journal of the American Academy of Orthopaedic Surgeons* 10, no. 5 (2002): 321-333.

- Sanchez-Sotelo J, DJ Berry, RT Trousdale, and ME Cabanela. "Surgical treatment of developmental dysplasia of the hip in adults: II. Arthroplasty options." *JAAOS-Journal of the American Academy of Orthopaedic Surgeons* 10, no. 5 (2002): 334-344.
 - Rogers BA, S Garbedian, RA Kuchinad, D Backstein, O Safir, and AE Gross. "Total hip arthroplasty for adult hip dysplasia." *JBJS* 94, no. 19 (2012): 1809-1821.
 - Greber EM, CE Pelt, JM Gililand, MB Anderson, JA Erickson, and CL Peters. "Challenges in total hip arthroplasty in the setting of developmental dysplasia of the hip." *The Journal of arthroplasty* 32, no. 9 (2017): S38-S44.
- **Hip Fractures**
 - Relevant Literature:
 - Stirton JB, JC Maier, and S Nandi. "Total hip arthroplasty for the management of hip fracture: A review of the literature." *Journal of orthopaedics* 16, no. 2 (2019): 141-144.
 - Health Investigators. "Total hip arthroplasty or hemiarthroplasty for hip fracture." *New England Journal of Medicine* 381, no. 23 (2019): 2199-2208.
 - Le Manach Y, G Collins, M Bhandari, A Bessissow, J Boddaert, F Khiami, H Chaudhry, J De Beer, B Riou, P Landais, M Winemaker, T Boudegmaghe, and PJ Devereaux. "Outcomes after hip fracture surgery compared with elective total hip replacement." *Jama* 314, no. 11 (2015): 1159-1166.
 - Coomber R, M Porteous, MJ Hubble, and MJ Parker. "Total hip replacement for hip fracture: Surgical techniques and concepts." *Injury* 47, no. 10 (2016): 2060-2064.
- **Inflammatory Arthritis**
 - Relevant Literature:
 - Goodman SM, BD Springer, AF Chen, M Davis, DR Fernandez, M Figgie, H Finlayson, et al. "2022 American College of Rheumatology/American Association of Hip and Knee Surgeons guideline for the perioperative management of antirheumatic medication in patients with rheumatic diseases undergoing elective total hip or total knee arthroplasty." *The Journal of Arthroplasty* 37, no. 9 (2022): 1676-1683.
 - Ravi B, R Croxford, S Hollands, JM Paterson, E Bogoch, H Kreder, and GA Hawker. "Increased risk of complication following total joint arthroplasty in patients with rheumatoid arthritis." *Arthritis & Rheumatology* 66, no. 2 (2014): 254-263.
- **Osteonecrosis**
 - Relevant Literature:
 - Banerjee S, K Issa, R Pivec, BH Kapadia, HS Khanuja, and MA Mont. "Osteonecrosis of the hip: treatment options and outcomes" *Orthopedic Clinics* 44, no. 4 (2013): 463-476.
- **Post-Traumatic Arthritis**

- **Hip-Spine Relationship**
 - Relevant Literature:
 - Luthringer TA, and JM Vigdorich. "A preoperative workup of a "hip-spine" total hip arthroplasty patient: a simplified approach to a complex problem." *The Journal of Arthroplasty* 34, no. 7 (2019): S57-S70.
 - Grammatopoulos G, M Innmann, P Phan, R Bodner, and G Meermans. "Spinopelvic challenges in primary total hip arthroplasty." *EFORT Open Reviews* 8, no. 5 (2023): 298-312.

- **Techniques for Primary THA:**
 - **Surgical Approaches for THA**
 - Videos:
 - THA Surgical Approaches: Pros & Cons: <https://www.vumedi.com/video/tha-surgical-approaches-pros-cons/>
 - Anterior Total Hip Arthroplasty Using a Standard Table Technique: <https://www.vumedi.com/video/anterior-total-hip-arthroplasty-using-a-standard-table-technique/>
 - Anterolateral Approach to Total Hip Arthroplasty: <https://www.vumedi.com/video/anterolateral-approach-to-total-hip-arthroplasty-dr-frank-ebert/>
 - Total Hip Arthroplasty using a Posterior Approach <https://www.vumedi.com/video/total-hip-arthroplasty-using-a-posterior-approach/>
 - Relevant Literature:
 - Petis S, JL Howard, BL Lanting, and EM Vasarhelyi. "Surgical approach in primary total hip arthroplasty: anatomy, technique and clinical outcomes." *Canadian Journal of Surgery* 58, no. 2 (2015): 128.

 - **Cement in THA**
 - Relevant Literature:
 - Blankstein M, B Lentine, and NJ Nelms. "The use of cement in hip arthroplasty: a contemporary perspective." *JAAOS-Journal of the American Academy of Orthopaedic Surgeons* 28, no. 14 (2020): e586-e594.

 - **Conversion THA**
 - Videos:
 - Conversion THA: Tips and Tricks: <https://www.vumedi.com/video/conversion-tha-tips-and-tricks/>
 - Relevant Literature:
 - Baghoolizadeh M, and R Schwarzkopf. "The Lawrence D. Dorr Surgical Techniques & Technologies Award: conversion total hip arthroplasty: is it a primary or revision hip arthroplasty." *The Journal of arthroplasty* 31, no. 9 (2016): 16-21.
 - Douglas SJ, EA Remily, OC Sax, SS Pervaiz, RE Delanois, and AJ Johnson. "How does conversion total hip arthroplasty compare to primary?." *The Journal of Arthroplasty* 36, no. 7 (2021): S155-S159.

- **Advanced Technologies in Primary Total Hip Arthroplasty**
 - Videos:
 - Robotics and Navigation in Total Hip Arthroplasty: Current Debates and Solutions: <https://www.vumedi.com/video/robotics-and-navigation-in-total-hip-arthroplasty-current-debates-and-solutions/>
 - Robotics for the Complex THA: Not Just the Cup Position: <https://www.vumedi.com/video/robotics-for-the-complex-tha-not-just-the-cup-position/>
 - Relevant Literature:
 - Fontalis A, B Kayani, JW Thompson, R Plastow, and FS Haddad. "Robotic total hip arthroplasty: Past, present and future." *Orthopaedics and Trauma* 36, no. 1 (2022): 6-13.
 - Ng N, P Gaston, PM Simpson, GJ Macpherson, JT Patton, and ND Clement. "Robotic arm-assisted versus manual total hip arthroplasty: a systematic review and meta-analysis." *The Bone & Joint Journal* 103, no. 6 (2021): 1009-1020.

Revision Hip Arthroplasty:

- **Evaluation and Workup in Revision Total Hip Arthroplasty**
 - Overview:
 - "THA Revision" *Orthobullets*. <https://www.orthobullets.com/recon/5009/tha-revision>
 - Relevant Literature:
 - Barrack RL, and RS Burnett. "Preoperative planning for revision total hip arthroplasty." *JBJS* 87, no. 12 (2005): 2800-2811.
- **Complications:**
 - Overview:
 - "THA Complications" *Hip and Knee Book*. <https://hipandkneebook.com/tha-complications-1>
 - **Nerve Injury**
 - Relevant Literature:
 - Hasija R, JJ Kelly, NV Shah, JM Newman, JJ Chan, J Robinson, and AV Maheshwari. "Nerve injuries associated with total hip arthroplasty." *Journal of clinical orthopaedics and trauma* 9, no. 1 (2018): 81-86.
 - **Limb Length Discrepancy**
 - Relevant Literature:
 - Clark CR, HD Huddleston, EP Schoch III, and BJ Thomas. "Leg-length discrepancy after total hip arthroplasty." *JAAOS-Journal of the American Academy of Orthopaedic Surgeons* 14, no. 1 (2006): 38-45.
 - **Periprosthetic Fractures**
 - Overview:

- “THA Periprosthetic Fracture” *Orthobullets*.
<https://www.orthobullets.com/recon/5013/tha-periprosthetic-fracture>
- Relevant Literature:
 - Davidson D, J Pike, D Garbuz, CP Duncan, and B Masri. "Intraoperative periprosthetic fractures during total hip arthroplasty: evaluation and management." *JBJS* 90, no. 9 (2008): 2000-2012.
 - Haidukewych GJ, J Langford, and F Liporace. "Revision for periprosthetic fractures of the hip and knee." *JBJS* 95, no. 4 (2013): 368-376
 - Pike J, D Davidson, D Garbuz, CP Duncan, PJ O'Brien, and BA Masri. "Principles of treatment for periprosthetic femoral shaft fractures around well-fixed total hip arthroplasty." *JAAOS-Journal of the American Academy of Orthopaedic Surgeons* 17, no. 11 (2009): 677-688.
- **Adverse Local Tissue Reaction - Metal on Metal**
 - Relevant Literature:
 - Drummond J, T Phong , and F Camdon. "Metal-on-metal hip arthroplasty: a review of adverse reactions and patient management." *Journal of functional biomaterials* 6, no. 3 (2015): 486-499.
- **Aseptic Loosening After Total Hip Arthroplasty**
 - Overview
 - “Osteolysis & Aseptic Loosening” *Hip and Knee Book*.
<https://hipandkneebook.com/tha-complications/2017/3/13/aseptic-loosening>
 - Relevant Literature:
 - Cherian JJ, JJ Jauregui, S Banerjee, T Pierce, and MA Mont. "What host factors affect aseptic loosening after THA and TKA?." *Clinical Orthopaedics and Related Research*® 473 (2015): 2700-2709.
 - Anil U, V Singh, and R Schwarzkopf. "Diagnosis and detection of subtle aseptic loosening in total hip arthroplasty." *The Journal of Arthroplasty* 37, no. 8 (2022): 1494-1500.
- **Hip Instability**
 - Relevant Literature:
 - Parvizi J, E Picinic, and PF Sharkey. "Revision total hip arthroplasty for instability: surgical techniques and principles." *JBJS* 90, no. 5 (2008): 1134-1142.
 - Wera GD, NT Ting, M Moric, WG Paprosky, SM Sporer, and CJ Della Valle. "Classification and management of the unstable total hip arthroplasty." *The Journal of arthroplasty* 27, no. 5 (2012): 710-715.
- **Periprosthetic Joint Infection**
 - Videos:
 - AAOS Guidelines on PJI: An Update
<https://www.vumedi.com/video/aaos-guidelines-on-pji-an-update/>
 - Relevant Literature:

- Parvizi J, N. Shohat, and T. Gehrke. "Prevention of periprosthetic joint infection: new guidelines." *The bone & joint journal* 99, no. 4_Supple_B (2017): 3-10.
- Parvizi, Javad, TL Tan, K Goswami, C Higuera, C Della Valle, AF Chen, and N Shohat. "The 2018 definition of periprosthetic hip and knee infection: an evidence-based and validated criteria." *The Journal of arthroplasty* 33, no. 5 (2018): 1309-1314.
- **Polyethylene Wear and Osteolysis**
 - Relevant Literature:
 - Dumbleton JH, MT Manley, and AA Edidin. "A literature review of the association between wear rate and osteolysis in total hip arthroplasty" *Journal of Arthroplasty* 17, no. 5 (2002): 649-661.
- **Revision Total Hip Arthroplasty Techniques:**
 - **Component Removal in Revision Total Hip Arthroplasty**
 - Videos:
 - Strategies for Acetabular Component Removal in Hip Revision Surgery <https://www.vumedi.com/video/strategies-for-acetabular-component-removal-in-hip-revision-surgery/>
 - Exposure and Component Removal in Revision THA <https://www.vumedi.com/video/exposure-and-component-removal-in-revision-tha/>
 - Relevant Literature:
 - Masri BA, PA Mitchell, and CP Duncan. "Removal of solidly fixed implants during revision hip and knee arthroplasty." *JAAOS-Journal of the American Academy of Orthopaedic Surgeons* 13, no. 1 (2005): 18-27.
 - **Acetabular Component Revision**
 - Videos:
 - Cup/Cage Construct for the Management of Pelvic Discontinuity: <https://www.vumedi.com/video/cupcage-construct-for-the-management-of-pelvic-discontinuity/>
 - Relevant Literature:
 - Sheth N, CL Nelson, BD Springer, TK Fehring, W Paprosky. "Acetabular Bone Loss in Revision Total Hip Arthroplasty: Evaluation and Management" *JAAOS* 21, no. 10 (2013): 601-612.
 - Fryhofer GW, Sireesh Ramesh, and Neil P. Sheth. "Acetabular reconstruction in revision total hip arthroplasty." *Journal of Clinical Orthopaedics and Trauma* 11, no. 1 (2020): 22-28.
 - Driesman, Adam S., Jaclyn A. Konopka, Oren Feder, Vinay Aggarwal, and Ran Schwarzkopf. "Management Principles of Massive Acetabular Bone Loss in Revision Total Hip Arthroplasty: A Review of the Literature." *Bulletin of the NYU Hospital for Joint Diseases* 81, no. 1 (2023): 4-10.
 - **Femoral Component Revision**
 - Book Chapters:
 - Fink, Bernd. "Principles of Femoral Revision." In *Femoral Revision Arthroplasty*, pp. 19-20. Cham: Springer International Publishing, 2022.

- Videos:
 - Revision THA: Major Femoral Bone Loss: <https://www.vumedi.com/video/revision-tha-major-femoral-bone-loss/>
 - Relevant Literature:
 - Sheth N, CL Nelson, and W Paprosky. "Femoral Bone Loss in Revision Total Hip Arthroplasty: Evaluation and Management" *JAAOS* 21, no. 10 (2013): 601-612.
 - Restrepo C, M Mashadi, J Parvizi, MS Austin, and WJ Hozack. "Modular femoral stems for revision total hip arthroplasty." *Clinical Orthopaedics and Related Research*® 469 (2011): 476-482.
- **Extended Trochanteric Osteotomy**
- Videos:
 - Extended Trochanteric Osteotomy: A Video-Based Approach: <https://www.vumedi.com/video/extended-trochanteric-osteotomy-a-video-based-approach/>
 - Relevant Literature:
 - Sambandam SN, G Duraisamy, J Chandrasekharan, and V Mounasamy. "Extended trochanteric osteotomy: current concepts review." *European Journal of Orthopaedic Surgery & Traumatology* 26 (2016): 231-245.
 - Meek RM., NV Greidanus, DS Garbuz, Bassam A. Masri, and Clive P. Duncan. "Extended trochanteric osteotomy: planning, surgical technique, and pitfalls." *Instructional Course Lectures* 53 (2004): 119-130.
 - Malahias MA, I Gkias, NA Selemon, RD Filippis, A Gu, A Greenberg, and PK Sculco. "Outcomes and risk factors of extended trochanteric osteotomy in aseptic revision total hip arthroplasty: a systematic review." *The Journal of Arthroplasty* 35, no. 11 (2020): 3410-3416.
- **PJI Management**
- Videos:
 - Single Stage Exchange for PJI of the Hip - Surgical Technique with Clean Phase: <https://www.vumedi.com/video/single-stage-exchange-for-pji-of-the-hip-surgical-technique-with-clean-phase/>
 - Two-Stage Treatment of Infected THA: <https://www.vumedi.com/video/two-stage-treatment-of-infected-tha/>
 - Relevant Literature:
 - Kuzyk PR, HS Dhotar, A Sternheim, AE Gross, O Safir, and D Backstein. "Two-stage revision arthroplasty for management of chronic periprosthetic hip and knee infection: techniques, controversies, and outcomes." *JAAOS-Journal of the American Academy of Orthopaedic Surgeons* 22, no. 3 (2014): 153-164.
 - Nace J, A Siddiqi, CT Talmo, and AF Chen. "Diagnosis and management of fungal periprosthetic joint infections." *JAAOS-Journal of the American Academy of Orthopaedic Surgeons* 27, no. 18 (2019): e804-e818.
 - Chen W, C Klemt, EJ Smith, V Tirumala, L Xiong, and YM Kwon. "Outcomes and risk factors associated with failures of debridement, antibiotics, and implant retention in patients with acute hematogenous

periprosthetic joint infection." *Journal of the American Academy of Orthopaedic Surgeons* 29, no. 23 (2021): 1024-1030.

- Grammatopoulos G, B Kendrick, M McNally, NA Athanasou, B Atkins, P McLardy-Smith, A Taylor, and R Gundle. "Outcome following debridement, antibiotics, and implant retention in hip periprosthetic joint infection—an 18-year experience." *The Journal of arthroplasty* 32, no. 7 (2017): 2248-2255.

- **Soft Tissue Reconstruction**

- Videos:

- Gluteus Maximus Muscle Transfer for the Treatment of Hip Abductor Insufficiency: <https://www.vumedi.com/video/gluteus-maximus-muscle-transfer-for-the-treatment-of-hip-abductor-insufficiency/>
- Reconstruction of the Abductor Mechanism of the Hip: Gluteus Maximus Flap Transfer: <https://www.vumedi.com/video/reconstruction-of-the-abductor-mechanism-of-the-hip-gluteus-maximus-flap-transfer/>

- Relevant Literature:

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 - Preparing Antibiotic Cement & TKA Articulating Spacer:
<https://www.eacademy.hss.edu/courses/preparing-antibiotic-cement-tka-articulating-spacer>
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- Videos:

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