

Curriculum Vitae

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Chancellor F. Gray, MD, FAAOS, FAOA

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Education:

8/1999-6/2003	A.B. Princeton University (History of Science), Princeton NJ
8/2004-5/2008	M.D. Jefferson Medical College of Thomas Jefferson University, Philadelphia PA, <i>cum laude</i>

Post-Graduate Training and Fellowships:

1/2020- 10/2021	APEX Leadership program, USC Marshall School of Business and American Orthopaedic Association (AOA), Los Angeles CA
8/2014- 7/2015	Fellow, Division of Adult Reconstruction, Department of Orthopaedics, University of California San Francisco (UCSF) Medical Center, San Francisco CA
7/2009- 6/2014	Resident in Orthopaedic Surgery, Hospital of the University of Pennsylvania, Philadelphia PA, <i>Selected as Administrative/ Academic Chief Resident 2013-2014</i>
7/2010- 6/2011	Research Fellow, McKay Orthopaedic Research Labs, Perelman School of Medicine at the University of Pennsylvania, Philadelphia PA
6/2008- 6/2009	Internship in General Surgery/ Orthopaedic Surgery, Hospital of the University of Pennsylvania, Philadelphia PA

Hospital and Administrative Appointments:

8/2021-Present	Division Chief, Adult Arthroplasty and Joint Reconstruction Section, University of Florida College of Medicine, Department of Orthopaedic Surgery
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7/2020- Present	Associate Professor, University of Florida College of Medicine, Department of Orthopaedic Surgery
7/2016- Present	Associate Physician Director of Quality, University of Florida College of Medicine, Department of Orthopaedic Surgery
9/2015- 6/2020	Assistant Professor, University of Florida College of Medicine, Department of Orthopaedic Surgery
8/2014- 7/2015	Instructor, University of California San Francisco School of Medicine, Department of Orthopaedic Surgery
3/2013- 3/2014	Academic and Administrative Chief Resident, Department of Orthopaedic Surgery, University of Pennsylvania Health System
6/2008- 6/2014	Instructor, Perelman School of Medicine at the University of Pennsylvania, Department of Orthopaedic Surgery

Licensure:

Florida	Active- expires 1/2025
California	Physician and Surgeon
Pennsylvania	Physician
NPI	****9548
DEA	Active- expires 9/2024
ABOS	Diplomate of the American Board of Orthopaedic Surgery (current, 2017-2027)

Awards, Honors, and Membership in Honorary Societies:

6/2022	Winner, Best Poster, Florida Orthopaedic Society Annual Meeting, West Palm Beach, FL
5/2022	AAOS/AJRR Analytics Institute Research Grant: "Comparison of clinical and patient reported outcome measures following cemented versus cementless TKA"
11/2021	Named William Petty Endowed Professor in Orthopaedic Surgery, Department of Orthopaedic Surgery, University of Florida
6/2021	Confirmed to Fellow status, American Orthopaedic Association (AOA)- the oldest honorary society for orthopaedic leaders in the United States
11/2019	Faculty Enhancement Opportunity (FEO) Award, University of Florida
10/2019	Exemplary Teacher Award, University of Florida College of Medicine
8/2019	AAOS/AJRR Analytics Institute Research Grant: "Leveraging PROs to predict outcomes in lower extremity joint arthroplasty patients."
6/2019	"Game Changer: Knee" award winner, International Congress for Joint Reconstruction (ICJR) South Hip and Knee Meeting, Key Largo FL

- 3/2019 Improvement Project Presentation: Highest distinction (top 5 papers); and Winner: Best QI project, UFHealth Patient Safety and Quality Week 2019.
- 3/2019 Team Quality Award: Arthroplasty Division. UFHealth Patient Safety and Quality Week 2019
- 3/2019 Best paper, American Academy of Pain Medicine Annual Meeting, Denver CO
- 11/2018 Clinical Orthopaedics and Related Research (CORR), top 50 reviewer (reserved for less than 5% of all manuscript peer-reviewers)
- 6/2018-8/2018 Florida Orthopaedic Society Emerging Leaders Program
- 6/2018 Chairman, Adult Reconstruction Breakout Session, Florida Orthopaedic Society (FOS) 2018 Annual Meeting
- 4/2018 Elected one of six top posters, UF Health Quality and Safety Initiative 2018
- 6/2017 Chairman's Annual Quality Award, UF Department of Orthopaedic Surgery
- 10/2016 Customer Service is Key Award, UF Health and Shands Hospital
- 6/2016 Chairman's Annual Quality Award, UF Department of Orthopaedic Surgery
- 1/2016 Selected as American Association of Hip and Knee Surgeons (AAHKS) Health Policy Fellow, 2016-2017
- 6/2013 Selected to attend Resident Leadership Forum, American Orthopaedic Association Annual Meeting, Denver CO
- 3/2013 Elected by faculty and peers as Administrative/Academic Chief Resident, Department of Orthopaedic Surgery, University of Pennsylvania Health System
- 2/2012 Best Poster, Shoulder and Elbow category, AAOS/ORS Annual Meeting, San Francisco CA
- 3/2007 Alpha Omega Alpha Honor Medical Society (Junior-inductee, and one of four elected members of Executive Committee), Jefferson Medical College
- 8/2006, 8/2007 Benjamin and Mary Siddons Measey Foundation Award for academic performance, Jefferson Medical College
- 5/2006 Hobart Amory Hare Honor Society, Jefferson Medical College
- 5/2006 Association of Pathology Chairs, National Pathology Honor Society
- 6-8/2005 NIH Summer Research Scholar, Jefferson Medical College

Memberships in Professional and Scientific Societies and Other Professional Activities (Include Offices Held):

- National: American Academy of Orthopaedic Surgeons (Fellow Member)
Member of AAOS Assessments and Examinations Committee (2020-2026)

- American Joint Replacement Registry, Member of Risk Calculator Task Force (2020-)
- American Association of Hip and Knee Surgeons (Fellow Member)
American Orthopaedic Association
Fellow Member (2021-)
Emerging Leaders Program (2014-2022)
- National Committee for Quality Assurance (NCQA): Expert Work Group on Electronic Clinical Quality Measures (eCQMs) for Total Hip and Knee Arthroplasty (2022-)
- Regional: Florida Orthopaedic Society (member)

Editorial and Review Positions:

- 2018- Editorial Board, RAEducation.com
- 2018- Scientific manuscripts peer-reviewer, *PLOSOne*
- 2017- Scientific manuscripts peer-reviewer, *Journal of Arthroplasty*
- 2017- Scientific manuscripts peer-reviewer, *Clinical Orthopaedics and Related Research*
- 2011-2012 Associate Editor, Head of Special Projects, *University of Pennsylvania Orthopaedic Journal, Volume 22, June 2012*
- 2010-2011 Editor-in-Chief, *University of Pennsylvania Orthopaedic Journal, Volume 21, May 2011*

Academic and Institutional Committees:

- 2022 Committee Lead, UFHealth/Disney Institute Patient Care and Satisfaction Improvement Project, UF College of Medicine
- 2022 Chair Search Committee, Department of Orthopaedic Surgery and Sports Medicine, UF College of Medicine
- 2022 Member, College of Medicine Compensation Committee, UF College of Medicine
- 2022-2023 Orthopaedic Surgery Resident Selection Committee, UF College of Medicine
- 2021 Chair Search Committee, Department of Emergency Medicine, UF College of Medicine
- 2020-22 Marion County UFHealth Strategy planning committee
- 2019 Committee Member, Arthroplasty Oversight Committee, UF Health
- 2015-2019 Co-chair, Guiding Committee, Patient and Family Centered Care (PFCC) Program, Department of Orthopaedic Surgery, UF Health
- 2014-2015 Team Member, LEAN Kaizen Program, Department of Orthopaedic Surgery, UCSF Medical Center
- 2010-2013 Class Representative, Orthopaedics Residency Class of 2014, Graduate Medical Education Committee, Department of Orthopaedic Surgery, University of Pennsylvania Health System
- 2011-2012 Member, Curriculum Committee, Department of Orthopaedic Surgery, University of Pennsylvania Health System

Teaching Experience:

- 2020-Present Associate Professor, Department of Orthopaedic Surgery, University of Florida College of Medicine
- 2015-2020 Assistant Professor, Department of Orthopaedic Surgery, University of Florida College of Medicine
- 2014-2015 Clinical Instructor, Department of Orthopaedic Surgery, University of California San Francisco School of Medicine
- 2010-2011 Instructor, Medical Student Orthopaedic Exam Review Course, University of Pennsylvania School of Medicine
- 2010 Instructor, Musculoskeletal Medicine Course, University of Pennsylvania School of Medicine

Conferences and Lectures:

- 2/2023 "Robotics in Joint Arthroplasty: a Value Proposition, or Just a Prop?"
Alachua County Medical Society, Gainesville FL
- 2/2023 "Robotics in Knee Arthroplasty" Visiting Professor lecture, University of Miami Miller School of Medicine, Miami FL
- 9/2022 "Should We be Cementing More Hips in the USA in 2022?" UCSF
Arthroplasty for the Modern Surgeon: Hip, Knee, and Health Innovation
Technology in Sonoma, Sonoma CA
- 9/2022 "Outpatient Total Joint Arthroplasty: Key Protocols for Success" UCSF
Arthroplasty for the Modern Surgeon: Hip, Knee, and Health Innovation
Technology in Sonoma, Sonoma CA
- 6/2022 "Introduction to Quality Improvement and Quality Curriculum" Intern
Boot Camp, UF Department of Orthopaedics, Gainesville FL
- 6/2022 "Measuring Outcomes in Total Joint Arthroplasty," Resident/ Fellow
Arthroplasty Conference, UF Department of Orthopaedics, Gainesville FL
- 12/2021 "Building a Culture of Quality," PDQ presentation for Medical Operations
Committee, UFHealth, Gainesville FL
- 11/2021 "Tribology in Total Hip Arthroplasty," Resident/ Fellow Arthroplasty
Conference, UF Department of Orthopaedics, Gainesville FL
- 5/2021 "Why I Care about Value-Based Care," visiting professor, STARS/Value
Based Care Group, New York Medical College and Dell Medical College,
Valhalla NY and Austin TX
- 5/2021 "Management of Geriatric Hip Fractures: Roundtable Discussion," invited
lecture, American Society for Regional Anesthesia (ASRA) Annual
Meeting, Orlando FL
- 5/2021 "Who's In and Who's Out: Appropriate Patient Selection for Outpatient
Total Joint Arthroplasty," invited lecture, American Society for Regional
Anesthesia (ASRA) Annual Meeting, Orlando FL

- 5/2021 "Outpatient Arthroplasty: A Value-Based Asset in a Pandemic World," invited lecture/ podcast, Wolters-Kluwer AudioDigest
- 12/2020 "Predicting Outcomes: Leveraging Patient Data and Functional Scores," UF Rehab Symposium, Gainesville FL
- 9/2020 "Compliance vs. Quality- The Difference Lies in Physician Leadership," Invited Grand Rounds Lecture, UF Department of General Surgery, Gainesville, FL
- 5/2020 "Value-Based Care and Alternative Payment Models in Total Joint Arthroplasty," Arthroplasty Resident Conference, UF Department of Orthopaedics, Gainesville FL
- 2/2020 "Pain Management and the CJR Model: Opioid Reduction and Mitigation Strategies," CMS Hospital Improvement and Innovation Network Webinar
- 9/2019 "Value-Based Care for the Total Joint Arthroplasty Surgeon," UCSF Arthroplasty for the Modern Surgeon: Hip, Knee, and Health Innovation Technology in Sonoma, Sonoma CA
- 9/2019 "Top Four Knee Articles, Clinical Orthopaedics and Related Research," UCSF Arthroplasty for the Modern Surgeon: Hip, Knee, and Health Innovation Technology in Sonoma, Sonoma CA
- 7/2019 "A comprehensive redesign to improve surgical safety: impacting multiple outcomes," CMS Hospital Improvement and Innovation Network Webinar
- 6/2019 "Unique considerations in varus vs. valgus total knee arthroplasty," UF Rehab symposium, Gainesville FL
- 5/2019 "Revision Total Knee Arthroplasty," Arthroplasty Resident Conference, UF Department of Orthopaedics, Gainesville FL
- 3/2019 "Dissolving Barriers to Continuity Across the Care Spectrum," paper presentation at UF Quality and Patient Safety Week, Gainesville FL (**Winner, Best Quality Improvement Project Presentation**)
- 2/2019 "Becoming a destination center of total joint excellence," presentation before UFHealth Senior Leadership, Gainesville FL
- 11/2018 "Rapid Cycle Business Development in Total Joint Arthroplasty Care," Annual Leadership Meeting, Academic Orthopaedic Consortium, University of Pennsylvania, Philadelphia PA
- 11/2018 "The Evolution of Total Joint Arthroplasty Care: Embracing Value," Annual Fall Meeting, William F. Enneking Society Annual Meeting, UF Department of Orthopaedics, Gainesville FL
- 10/2018 "Operative Management of Geriatric Hip Fractures," Arthroplasty Resident Conference, UF Department of Orthopaedics, Gainesville FL

- 9/2018 "Patient and Family Centered Care: The Evolution of Arthroplasty Care," Presentation at Quality and Patient Safety Committee, UFHealth Shands Hospital, Gainesville FL
- 9/2018 "THA Principles and Approaches: Primaries and Revisions" cadaver lab for residents/ students/ fellows, UF Orthopaedic and Sports Medicine Institute (OSMI) Cadaver Lab, Gainesville FL
- 6/2018 "Bundled Payment Creep: Improvements in Revision Arthroplasty Quality Metrics Following Care Redesign for Primary TJA Patients," Adult Reconstruction Breakout session, FOS Annual Meeting, St. Petersburg FL
- 5/2018 "UFHealth: A Destination Total Joint Center of Excellence," presentation before UF Health Leadership FUN Committee, Gainesville FL
- 12/2017 "Bearing surfaces in total hip arthroplasty," Arthroplasty Resident Conference, UF Department of Orthopaedics
- 5/2017 "Thriving in Any Payment Model: Using PROs to Build a Value Based Practice," Adult Reconstruction Breakout session, FOS Annual Meeting, Key Largo FL
- 2/2017 "Principles of Primary TKA" cadaver lab for residents, UF Orthopaedic and Sports Medicine Institute (OSMI) Cadaver Lab, Gainesville FL
- 11/2016 "Evolution of stem design in total hip arthroplasty," Arthroplasty Resident Conference, UF Department of Orthopaedics
- 5/2016 "THA Principles and Approaches" cadaver lab for residents, UF Orthopaedic and Sports Medicine Institute (OSMI) Cadaver Lab, Gainesville FL

Bibliography:

Research Publications, peer-reviewed (current H-index 14, September 2022)

1. Silverberg AJ, Parvataneni HK, Prieto HA, Deen JT, Vasilopoulos T, Horodyski MB, **Gray CF**. "A physician-led care redesign blunts predictors of length of stay after total hip and knee arthroplasty." *J Surg Orthop Adv*. 2023. In press.
2. Chen DQ, Parvataneni HK, Miley EN, Deen JT, Pulido L, Prieto HA, **Gray CF**. "Lessons Learned from The Comprehensive Care for Joint Replacement (CJR) Model at an Academic Tertiary Center: the Good, the Bad, and the Ugly." *J Arthroplasty*. 2023. Doi: <https://doi.org/10.1016/j.arth.2023.02.014>. Epub ahead of print. PMID: 36781061
3. Cavallari L, Cicali E, Wiisanen K, Fillingim R, Chakraborty H, Myers R, Blake K, Asiyabola b, Baye J, Bronson W, Cook K, Elwood E, **Gray CF**, Gong Y, Hines L, Kannry J, Kucher N, Lynch S, Nguyen K, Obeng A, Pratt V, Prieto HA, Ramos M, Sadeghpour A, Singh R, Rosenman M, Starostik P, Thomas C, Tillman E, Dexter P, Horowitz C, Orlando L, Peterson J, Skaar T, Van Driest S, Volpi S, Voora D, Parvataneni HK, and Johnson J. "Implementing a Pragmatic Clinical Trial to Tailor Opioids for Acute Pain on behalf of the IGNITE ADOPT PGx Investigators." *Clin*

- Transl Sci. 2022 Jul 28. doi: <https://doi.org/10.1111/cts.13376>. Online ahead of print.
PMID: 35899435
4. Gibon E, Vasilopoulos T, Sipavicius E, Deen JT, Prieto HA, **Gray CF**, Parvataneni HK, Pulido L. Surgical Management of Tibial Bone Loss in Revision Total Knee Arthroplasty: Clinical Outcomes and Radiographic Analysis of Tantalum Cones, Titanium Cones and Titanium Sleeves. *Iowa Orthop J*. 2022 Jun;42(1):145-153. PMID: 35821926; PMCID: PMC9210416.
 5. Mi X, Zou B, Rashidi P, Baharloo R, Fillingim RB, Wallace MR, Crispen PL, Parvataneni HK, Prieto HA, **Gray CF**, Machuca TN, Hughes SJ, Murad GJA, Thomas E, Iqbal A, Tighe PJ. "Temporal Postoperative Pain Signatures (TEMPOS) Group. Effects of Patient and Surgery Characteristics on Persistent Postoperative Pain: A Mediation Analysis." *Clin J Pain*. 2021 Nov 1;37(11):803-811. doi: [10.1097/AJP.0000000000000979](https://doi.org/10.1097/AJP.0000000000000979). PMID: 34475340; PMCID: PMC8511273.
 6. Cameron DT, Parvataneni HK, **Gray CF**, Deen JT, Prieto HA, Pulido LF, Elsely AR, Elwood EN, Starostik P, Gong Y, Fillingim RB, Johnson JA, Cavallari L. "A Hybrid Implementation-Effectiveness Randomized Trial of CYP2D6 Guided Post-operative Pain Management." *Genet Med*. 2021 Apr; 23(4): 621-628. doi: <https://doi.org/10.1038/s41436-020-01050-4>. PMID: 33420349.
 7. Smith CR, Baharloo R, Nickerson P, Wallace M, Zou B, Fillingim RB, Crispen P, Parvataneni HK, **Gray CF**, Prieto HA, Machuca T, Hughes S, Murad G, Rashidi P, Tighe PJ. "Predicting long-term postsurgical pain by examining the evolution of acute pain." *Eur Jour Pain* Nov 2020. DOI: <https://doi.org/10.1002/ejp.1698> [Epub ahead of print.] PMID: 33171546.
 8. Prieto HA, Deen JT, Gibon EF, Gordon K, **Gray CF**, Parvataneni HK. "A Learner-Centered Education Strategy: Optimizing an Interactive and Multimodal Learning Format in Orthopaedic Hip & Knee Arthroplasty." *J Surg Educ*, 2020 Nov 4:S1931-7204(20)30393-7. Doi: <https://doi.org/10.1016/j.jsurg.2020.10.016> [Epub ahead of print.] PMID: 33160943.
 9. Deen JT, Stone WZ, **Gray CF**, Prieto HA, Boezaart AP, Iams D, Parvataneni HK. "A simple, personalized stratification pathway to reduce opioid utilization." *Arthroplast Today*, 2020 Dec; 6(4): 731-735. Doi: <https://doi.org/10.1016/j.artd.2020.07.005>. [Epub ahead of print.] PMID: 32923559.
 10. Thomas WC, Parvataneni HK, Vlasak RG, **Gray CF**, "Response to Letter to the Editor on 'Early Polyethylene Failure in a Modern Total Hip Prosthesis: A Note of Caution'". *J Arthroplasty*. 2020 May 28:S0883-5403(20)30586-6. doi: <https://doi.org/10.1016/j.arth.2020.05.046>. Online ahead of print. PMID: 32561258.
 11. Dibra F, Parvataneni HK, **Gray CF**, Vasilopoulos T, Prieto HA. "The Risk Assessment and Prediction Tool Accurately Predicts Discharge Destination after Revision Total Hip and Knee Arthroplasty." *J Arthroplasty*, 2020 May 29:S0883-5403(20)30598-2. doi: <https://doi.org/10.1016/j.arth.2020.05.057>. Online ahead of print. PMID: 32561259.
 12. Deen JT, Stone WZ, **Gray CF**, Prieto HA, Boezaart AP, Iams D, Parvataneni HK. "Revision Arthroplasty Does Not Require More Opioids Than Primary Arthroplasty: A Review of Prescribing Practices Over a 5 Year Period Following Implementation of a Structured Perioperative Pain Management Strategy." *J Arthroplasty*, 2020. doi: <https://doi.org/10.1016/j.arth.2020.04.003>. [Epub ahead of print]. PMID: 32482474.

13. **Gray CF**, Parvataneni HK, Bozic KJ, “Physician Activation: healthcare transformation requires physician engagement and leadership.” *Clin Orthop Relat Res*, 2020 May; 478(5):954-957: doi: <https://doi.org/10.1097/CORR.0000000000001234>. PMID: 32217862.
14. Gibon EF, Parvataneni HK, Prieto HA, Photos L, Stone WZ, **Gray CF**, “Outpatient total knee arthroplasty: is it economically feasible in the hospital setting?” *Arthroplast Today*, 2020: doi: <https://doi.org/10.1016/j.artd.2020.02.004> [Epub ahead of print]. PMID: 32577469.
15. Thomas WC, Parvataneni HK, Vlasak RG, **Gray CF**, “Early polyethylene failure in a modern total hip prosthesis: a note of caution.” *J Arthroplasty*, 2020 May; 35(5):1297-1302. doi: 10.1016/j.arth.2019.12.043. [Epub ahead of print] PMID: 31982244.
16. Dibra F, Silverberg AJ, Vasilopoulos T, **Gray CF**, Parvataneni HK, Prieto HA, “Arthroplasty care redesign impacts the predictive accuracy of the risk assessment and prediction tool.” *J Arthroplasty*, 2019 Nov;34(11):2549-2554. doi: <https://doi.org/10.1016/j.arth.2019.06.035>. PMID: 31327649.
17. Stone WZ, **Gray CF**, Parvataneni HK, Prieto HA, “Accuracy of the alpha-defensin test in guiding reimplantation during two-stage revision surgery for prosthetic joint infection.” *J Arthroplasty*, 2019 Mar 13. pii: S0883-5403(19)30242-6. doi: 10.1016/j.arth.2019.03.019. [Epub ahead of print]. PMID: 30952552.
18. **Gray CF**, Prieto HA, Deen JT, Parvataneni HK, “Bundled Payment ‘Creep’: Institutional Redesign for Primary Arthroplasty Positively Affects Revision Arthroplasty.” *J Arthroplasty*, 2019 Feb, 34(2): 206-210. DOI: <https://doi.org/10.1016/j.arth.2018.10.025>. PMID: 30448324
19. Gogineni HC, **Gray CF**, Prieto HA, Deen JT, Boezaart AP, Parvataneni HK, “Transition to outpatient total hip and knee arthroplasty: experience at an academic tertiary care center.” *Arthroplasty Today*, 2018 Nov 28; 5(1):100-105. doi: <https://doi.org/10.1016/j.artd.2018.10.008>. PMID: 31020032.
20. Stone WZ, **Gray CF**, Parvataneni HK, Al-Rashid M, Vlasak RG, Horodyski MB, Prieto HA, “Clinical Evaluation of Synovial Alpha Defensin and Synovial C-Reactive Protein in the Diagnosis of Periprosthetic Joint Infections.” *J Bone Joint Surg-Am*, 2018 Jul 18; 100(14):1184-1190. doi: <https://doi.org/10.2106/JBJS.17.00556>. PMID 30020121.
21. **Gray CF** (Author/ voter panel). American Academy of Orthopaedic Surgeons. Appropriate Use Criteria for the Management of Osteoarthritis of the Hip. www.aaos.org/oahipauc. Published December 8, 2017.
22. **Gray CF**, Prieto HA, Duncan AT, Parvataneni HK, “Arthroplasty care redesign related to the comprehensive care for joint replacement model: results at a tertiary academic medical center.” *Arthroplasty Today*, 2018 Mar 21; 4(2):221-226. PMID 29896557.
23. **Gray CF**, Smith C, Zasimovich Y, Tighe PJ, “Economic considerations of acute pain medicine programs.” *Tech Orthop*, 2017 Dec; 32(4):217-225. PMID: 29403150.
24. Beach, Z. M., Tucker, J. J., Thomas, S. J., Reuther, K. E., **Gray CF**, Lee, C.-S., Glaser, D. L., Soslowsky, L. J. “Biceps tenotomy in the presence of a supraspinatus tear alters the adjacent

- intact tendons and glenoid cartilage.” *Journal of Biomechanics*, 2017 Oct 3;63:151-157. PMID: 28893394.
25. Dibra F, Prieto HA, **Gray CF**, Parvataneni HK, “Don’t forget the hip: hip arthritis masquerading as knee pain.” *Arthroplasty Today*, 2017 Aug 12;4(1):118-124. PMID: 29560406.
 26. Lopas LA, Belkin NS, **Gray CF**, Mutyaba PL, Hankenson KD, Ahn J, “Fractures in geriatric mice show decreased callus expansion and bone volume.” *Clin Orthop Relat Res* 2014 Nov; 472(11): 3523-32. PMID: 25106797.
 27. Wu CH, **Gray CF**, Lee GC, “Arthrodesis should be strongly considered after failed two-stage reimplantation TKA.” *Clin Orthop Relat Res* 2014 Nov; 472(11): 3295-304. PMID: 24488752.
 28. Reuther KE, Thomas SJ, Tucker JJ, Sarver JJ, **Gray CF**, Rooney SI, Glaser DL, Soslowsky LJ, “Disruption of the anterior-posterior rotator cuff force balance alters joint function and leads to joint damage in a rat model.” *J Orthop Res*. 2014 May;32(5):638-44. Jan 25. doi: 10.1002/jor.22586. PMID: 24464961.
 29. Mutyaba PL, Belkin NS, Lopas LA, **Gray CF**, Dopkin D, Hankenson KD, Ahn J, “Notch signaling in Mesenchymal Stem Cells (MSC) Harvested from Geriatric Mice.” *J Orthop Trauma*. 2014 Apr; Suppl 1:S20-3. 2013 Dec 30; ; PMID: 24378431.
 30. Reuther KE, Thomas SJ, Evans EF, Tucker J, Sarver JJ, Ilkhani-Pour S, **Gray CF**, Voleti PB, Glaser DL, Soslowsky LJ, “Returning to overuse activity following a supraspinatus and infraspinatus tear leads to joint damage in a rat model.” *J Biomech*, 2013; 46(11):1818-24. PMID: 23764174.
 31. Reuther KE, Thomas SJ, Sarver JJ, Tucker J, Lee CS, **Gray CF**, Glaser DL, Soslowsky LJ, “Effect of return to overuse activity following an isolated supraspinatus tendon tear on adjacent intact tendons and glenoid cartilage in a rat model.” *J Orthop Res*, 2013; 31(5):710-5. PMID: 23280495.
 32. Bernstein J, **Gray CF**. “Content Factor: A Measure of a Journal’s Contribution to Knowledge.” *PLoS One*, 2012; 7(7):e41554, Epub 2012 Jul 23. PMID: 22972514.
 33. **Gray CF**, Moore RE, and Lee GC. “Spontaneous dissociation of offset, face-changing polyethylene liners from the acetabular shell: a report of four cases.” *J Bone Joint Surg-Am*, 2012; 94(9): 841-5. PMID: 22552674.
 34. Gong Q, Chipitsyna G, **Gray CF**, Anandanadesan R, and Arfafat HA. “Expression and Regulation of Osteopontin in Type 1 Diabetes.” *Islets*, 2009; 1(1): 34-41. PMID: 21084847.
 35. Chipitsyna G, Gong Q, **Gray CF**, Haroon MY, Kamer E, and Arafat HA. “Induction of Monocyte Chemoattractant Protein-1 (MCP-1) Expression by Angiotensin II (AngII) in the Pancreatic Islets and Beta Cells.” *Endocrinology*, 2007; 148(5): 2198-2208. PMID: 17303665.

Editorials, Reviews, Book Chapters

1. Chapman JP, Hagan DP, **Gray CF**. “The Economics of Surgical Treatment of Knee Arthritis.” In Hansen EN, ed. *Essentials of Cemented Knee Arthroplasty*. Elsevier, Philadelphia, 2022.
2. **Gray CF**, Parvataneni HK, Prieto H (eds): “Knee Arthroplasty.” In *Operative Techniques in Orthopaedics*, Dec 2021.
3. **Gray, C.**: Outpatient Arthroplasty in the Evolving World of Value-based Care. *AudioDigest Orthopaedics* 44:16 (August 21) 2021. (https://legacy.audiogest.org/adfwebcasts/mp3/OR4416/or4416_2.mp3)

4. **Gray CF**, "CORR Insights: Is Geographic Socioeconomic Disadvantage Associated with the Rate of THA in Medicare-aged Patients?" *Clin Orthop Relat Res*, 2021 Mar 1; 479(3): 586-588, doi: <https://doi.org/10.1097/CORR.0000000000001543>. PMID: 33165039.
5. **Gray CF**, "CORR Insights: The EQ-5D-5L is superior to the -3L version in measuring health related quality of life in patients awaiting hip or knee arthroplasty." *Clin Orthop Relat Res*, 2019, doi: <https://doi.org/10.1097/CORR.0000000000000753>. [Epub ahead of print]. PMID: 31206412
6. .
7. **Gray CF**, Bozic KJ. "Epidemiology, Cost, and Health Policy Related to Total Knee Arthroplasty." *Current Orthopaedic Practice*, 2015; 26(3): 212-16.
8. **Gray CF**, "Spine is the most cited orthopaedic journal." Invited editorial, *Spine*, 2013; 38(1):3, PMID: 22972514.
9. **Gray CF**, Mehta S. "What we really think: the device industry in/ with/ against/ versus/ and orthopaedics." *University of Pennsylvania Orthopaedic Journal*, 2012; 22: 82-86.
10. Reuther KE, **Gray CF**, Soslowsky LJ. "Basic Form and Function of Tendon and Ligament." In Einhorn TE (ed.) *Orthopaedic Basic Science*, American Academy of Orthopaedic Surgeons, Rosemont, IL, 2012.
11. **Gray CF**, Bushnel BD, Taft TN. "Pelvic fractures." In: Miller M, MacKnight J, Hart J, eds. *Essential Orthopaedics*. Elsevier, Philadelphia, 2009: pp. 375-378.

Research Publications, peer-reviewed reviews

1. Shah RP, Sheth NP, **Gray CF**, Alesh H, Garino JP, "Periprosthetic Fractures Around Loose Femoral Components." *Journal of the American Academy of Orthopaedic Surgeons*, August 2014; 22(8): 482-90, PMID: 25063746.
2. **Gray CF**, Israelite CL, DellaValle C, "Proximal Femoral Fixation: When Bone Stock Allows." *Seminars in Arthroplasty*, June 2013; 24(2): 111-15.
3. Hankenson KD, Dishowitz MI, **Gray CF**, and Schenker M. "Angiogenesis in Bone Regeneration." *Injury*, June 2011; 42(6): 556-61, PMID: 21489534.

Abstracts/ Poster Presentations

1. Chen DQ, Parvataneni HK, Miley EN, Deen JT, Pulido L, Prieto HA, **Gray CF**. "Lessons Learned From The Comprehensive Care For Joint Replacement (CJR) Model At An Academic Tertiary Center: The Good, The Bad, And The Ugly." Podium presentation, American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting, Las Vegas NV, March 2023.
2. Chen DQ, Parvataneni HK, Miley EN, Deen JT, Pulido L, Prieto HA, **Gray CF**. "Lessons Learned From The Comprehensive Care For Joint Replacement (CJR) Model At An Academic Tertiary Center: The Good, The Bad, And The Ugly." Podium presentation, American Association of Hip and Knee Surgeons Annual Meeting, Dallas TX, November 2022.
3. Silverberg AJ, Rizk PA, Deen JT, Pulido L, Horodyski MB, **Gray CF**. "Radiographic predictors of outcomes for direct anterior total hip arthroplasty." Poster presentation, American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting, Chicago IL, March 2022.
4. **Gray CF**, Jayakumar P, Rizk PA, Huddleston James A III, Bozic KJ, Parvataneni HK. "Predictors of One Year Outcomes after Total Hip Arthroplasty via the American Joint

- Replacement Registry.” Podium presentation, American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting, San Diego CA, September 2021.
5. Gibon E, Sipavicius E, Vasilopoulos T, Deen JT, **Gray CF**, Prieto HA, Parvataneni HK, Pulido LF. “Outcomes of Tibia Tantalum Cones, Titanium Cones and Titanium Sleeves in Revision Knee Arthroplasty.” Podium presentation, American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting, San Diego CA, September 2021.
 6. **Gray CF**, Jayakumar P, Rizk PA, Huddleston James A III, Bozic KJ, Parvataneni HK. “Predictors of One Year Outcomes after Total Hip Arthroplasty via the American Joint Replacement Registry.” Poster presentation, American Orthopaedic Association (AOA) Annual Meeting, Albuquerque NM, June 2021.
 7. **Gray CF**, Jayakumar P, Rizk PA, Huddleston James A III, Bozic KJ, Parvataneni HK. “Predictors of Patient Outcomes after Total Knee Arthroplasty at One Year via the American Joint Replacement Registry.” Poster presentation, American Orthopaedic Association (AOA) Annual Meeting, Albuquerque NM, June 2021.
 8. **Gray CF**, Jayakumar P, Rizk PA, Huddleston James A III, Bozic KJ, Parvataneni HK. “Leveraging patient reported outcome measures from the American Joint Replacement Registry to predict total joint arthroplasty patient outcomes at one year.” Poster presentation, American Association of Hip and Knee Surgeons Annual Meeting, Dallas TX, November 2020.
 9. Silverberg AJ, Parvataneni HK, Prieto HA, **Gray CF**. “Physician-led arthroplasty redesign mitigates traditional predictors of length of stay.” Poster presentation at UF Health Patient Quality and Safety Week, Gainesville FL, March 2020.
 10. Thomas CD, Elsey AR, Starostik P, Gong Y, Deen JT, Pulido LF, Prieto HA, Fillingim R, **Gray CF**, Parvataneni HK, Johnson JA, Cavallari LH. “Precise Pain Control: Feasibility and Efficacy of a Preemptive CYP2D6-Genotype Guided Postoperative Pain Management Paradigm.” *Clin Pharmacol Ther.* 2020;107(S1):S5-S121.
 11. **Gray CF**, Prieto HA, Deen JT, Parvataneni HK. “Dissolving Barriers to Continuity of Care Across the Care Spectrum in Total Joint Arthroplasty.” Poster presentation, Institute for Healthcare Improvement (IHI) National Forum, Orlando FL, December 2019.
 12. Thomas CD, Elsey AR, Starostik P, Gong Y, Deen JT, Pulido LF, Prieto HA, Fillingim R, **Gray CF**, Parvataneni HK, Johnson JA, Cavallari LH. “A Pilot Clinical Trial of a CYP2D6 Genotype-Guided Pain Management Strategy in Patients Undergoing Total Joint Arthroplasty.” Abstract presentation, Pharmacogenomics Research Network, PCRN-ASHG Meeting, Houston TX, October 2019.
 13. Silverberg AP, Dibra FF, **Gray CF**, Parvataneni HK, Prieto HA. “Arthroplasty care redesign impacts the predictive accuracy of the risk assessment prediction tool.” Paper presentation, ICJR South Hip and Knee Meeting, Key Largo FL, June 2019. **Award winner: “Game Changer: Knee”**
 14. **Gray CF**, Prieto H, Deen JT, Parvataneni HK. “Bundled payment ‘creep’: CJR-related institutional redesign for primary arthroplasty positively affects revision arthroplasty.” Poster presentation, AOA Annual Meeting, San Diego CA, June 2019.
 15. Stone WZ, **Gray CF**, Parvataneni HK, Prieto HA. “Clinical Evaluation of Alpha Defensin Test following Staged Treatment of Prosthetic Joint Infections.” Poster presentation, AAOS Annual Meeting, Las Vegas NV, March 2019.

16. **Gray CF**, Prieto H, Deen JT, Parvataneni HK. "Dissolving Barriers to Continuity Across the Care Spectrum." Poster and podium presentation at UF Health Quality and Safety Initiative, Gainesville FL, March 2019. **Award winner: best paper.**
17. Boezaart AP, **Gray CF**, Deen JT, Zsimevich Y, Parvataneni HK. "A comprehensive protocol for post-operative pain control in elective total joint arthroplasty drastically reduces opioid prescriptions: A review of prescribing practices and outcomes." Poster and podium presentation at American Academy of Pain Medicine Annual Meeting, March 2019. **Award winner: best paper.**
18. Deen JT, Parvataneni HK, **Gray CF**, Prieto HA, Duncan AT. "There's no place like home: Outcomes after implementation of a patient-centered approach to post-operative disposition following total hip and knee arthroplasty." Poster and podium presentation at UF Health Quality and Safety Initiative, Gainesville FL, April 2018. **Award winner: one of six top posters.**
19. Deen JT, Parvataneni HK, **Gray CF**, Prieto HA, Duncan AT. "Implementation and outcomes of a comprehensive combined protocol for post-operative pain control in elective total joint arthroplasty." Poster presentation at UF Health Quality and Safety Initiative, Gainesville FL, April 2018.
20. **Gray CF**, "AAHKS Health Policy Fellowship: Summary of 2016-2017 Experience." Podium presentation, AAHKS National Meeting, Dallas TX, November 2017.
21. Prieto HA, Stone WZ, **Gray CF**, Iams DA, Vlasak R, Parvataneni HK. "Clinical evaluation of alpha-defensin test in diagnosing periprosthetic joint infections." Podium presentation, AAOS Annual Meeting, San Diego CA, March 2017.
22. Shaw JD, Miller S, Plourde A, **Gray CF**, Lu M, Shaw DL, Hansen EN. "Intraoperative methylene blue staining allows for visualization of microbial biofilm-associated tissue in periprosthetic joint infection." Poster presentation, AAHKS National Meeting, Dallas TX, November 2016.
23. Gray CF, Wu CH, Baldwin KD, Lee GC. "Knee arthrodesis is most likely to control infection and preserve function following failed 2 stage procedure for treatment of infected TKA: A decision tree analysis." Podium presentation at Musculoskeletal Infection Society Meeting, Philadelphia PA, August 2013.
24. Gray CF, Reuther KE, Hsu JE, Lee CS, Sarver JJ, Schulz SM, Sehgal CM, Glaser DL, Soslowsky LJ. "Restoration of Anterior-Posterior Rotator Cuff Force Balance Alters Glenoid Properties in a Chronic Cuff Tear Rat Model." Poster presentation at ORS Annual Meeting, San Francisco CA, February 2012.
25. Reuther KE, Sarver JJ, Thomas SJ, Lee CS, Gray CF, Tucker JJ, Glaser DL, Soslowsky LJ. "Effect of return to overuse activity Following an isolated supraspinatus tendon tear on adjacent intact tendons and glenoid cartilage in a rat model." Poster presentation at ORS Annual Meeting, San Francisco CA, February 2012. Award Winner: Best Poster, Shoulder and Elbow Category.
26. Ilkhani-Pour S, Satchell L, Sarver JJ, Tucker JJ, Gray CF, Edelstein L, Lee CS, Williams GR, Soslowsky LJ. "Effect of immobilization on a new, two-tendon rat rotator cuff repair model." Podium presentation at ORS annual meeting, San Francisco CA, February 2012.
27. Mutyaba PL, Shitaye HS, Gray CF, Belkin NS, Dopkin D, Ahn J, Hankenson KD. "Notch signaling activity in MSC from geriatric mice." Podium presentation at ORS annual meeting, San Francisco CA, February 2012.
28. Gray CF, Bernstein JS. "Content factor: a better method for assessing orthopaedic journals." Poster presentation at AAOS Annual Meeting, San Francisco CA, February 2012.

29. Thomas SJ, Sarver JJ, Tucker JJ, Edelstein L, Reuther KE, Ilkhani-Pour S, Gray CF, Lee CS, Soslowsky LJ. "The Effect of Return to Overuse Activity After a Supraspinatus Tear on Joint Function and Biceps Mechanical Properties in a Rat Model." ASME meeting, Farmington PA, June 2011.
30. Qiaoke Gong, Galina Chipitsyna, Chancellor Gray and Hwya A. Arafat. Serum and pancreatic osteopontin (OPN) expression in non-obese diabetic (NOD) mice: transcriptional regulation of OPN by cytokines and glucose in beta cells. ADA meeting, Washington DC, June 2006.
31. Galina Chipitsyna, Qiaoke Gong, Chancellor Gray, Yasir Haroon, and Hwya A. Arafat. Induction of monocyte chemoattractant protein-1 (MCP-1) expression by angiotensin II in the pancreatic islets and beta cells. ADA meeting, Washington DC, June 2006.
32. Chancellor Gray, Qiaoke Gong, Galina Chipitsyna, and Hwya A. Arafat. Differential regulation of the renin angiotensin system (RAS) in the pancreas is associated with progression to type 1 diabetes. ADA meeting, Washington DC, June 2006.
33. Chancellor Gray, Galina Chipitsyna, Qiaoke Gong, Hwya A. Arafat. Transcriptional Regulation Of Angiotensin Type 1 Receptor By Angiotensin II And Glucose In The Islets And Beta Cells. American Diabetes Association meeting, Chicago IL, June 2007.
34. Galina Chipitsyna, Qiaoke Gong, Chancellor Gray, Hwya A. Arafat. Osteopontin Inhibits The Angiotensin II-mediated Induction Of Monocyte-Chemoattractant Protein-1 In Beta Cells Through Negative Feedback Regulation Of NF-kappaB. ADA meeting, Chicago IL, June 2007.