

CURRICULUM VITAE

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Christopher David Flanagan, MD

Business Address

13020 Telecom Parkway N.
Temple Terrace, Florida
33637-0925

Business Telephone

(813) 978-9700

Personal Data

Date of Birth: 09/04/1989
Place of Birth: Arlington Heights, IL
County of Birth (if applicable): DuPage

License Information –

State	Medical License#	Status of License (e.g. active, expired)
FL	ME147624	Active

Board Certifications

American Board of Orthopaedic Surgery, Part 1
Eligible
Scheduled: July 14, 2021

Employment History

Florida Orthopaedic Institute
13020 N Telecom Pkwy
Temple Terrace, Florida 33637
Contact: Joanna Mullins
Phone: 813-253-2068
Dates: 07/23/2021- 07/31/2021

University Hospitals Cleveland Medical Center
11100 Euclid Ave
Cleveland, OH 44106
Contact: Kerwin Samson
Phone: 216-844-3233
Dates: 07/01/2016 – 06/30/2021

Graduate Medical Training

Fellowship

Florida Orthopaedic Institute
Department Head: Dr. Roy Sanders
13020 Telecom Parkway N
Temple Terrace, Florida 33637-0925
Contact Telephone # 813-978-9700 ext.7146
Contact: Joanna Mullins
Dates: 07/23/2021- 07/31/2022

Residency

University Hospitals Cleveland Medical Center/Case Western Orthopaedic Surgery
Department Head: James Voos, MD
11100 Euclid Ave
Cleveland, OH 44106
Contact: Kerwin Samson
Phone: 216-844-3233
Dates: 07/01/2016 – 06/30/2021

Internship

University Hospitals Cleveland Medical Center/Case Western Orthopaedic Surgery
Department Head: James Voos, MD
11100 Euclid Ave
Cleveland, OH 44106
Contact: Kerwin Samson
Phone: 216-844-3233
Dates: 07/01/2015 – 06/30/2016

Medical School

University of Chicago Pritzker School of Medicine
Department Head: Holly Humphrey, MD
924 E. 57th Street, #104
Chicago, IL 60637
Phone: 773-702-1937
Dates: 08/01/2011 – 06/13/2015

Undergraduate

Vanderbilt University
Department Head: Nicholas Zeppos
2201 West End Ave
Nashville, TN
Phone: 615-322-7311

Honors and Awards:

- 2018 The Alvin Freehafer, M.D., Award Winner
Presented annually to the second year Orthopaedic resident who excels in clinical care and exhibits the highest level of professionalism with patients, peers, and staff
- 2017 First Place, Clinical Research, MetroHealth Research Day. Clinical Project.
Flanagan, C., Wysong, E., Ramey, J., Vallier, H. (2017) Factors predictive of inpatient and post-discharge opiate prescription consumption in an orthopaedic trauma population. MetroHealth Research Symposium. Cleveland, OH.
- 2015 Top Quartile – Graduating Class of 2015

Professional Affiliations/Memberships:

- 01/01/2020—Present Orthopaedic Trauma Association

Publications

Joseph, NM., Benedick, A., **Flanagan, CD.**, Breslin, M., Vallier, HA. Risk factors for post-traumatic stress disorder in acute trauma patients. *Journal of Orthopaedic Trauma*. 2021 Mar 15.

Joseph, NM., **Flanagan, CD.**, Heimke, IM., Cho, E., Pothireddy, S., Scarcella, N., Vallier, HA. Factors influencing functional outcomes following operative fixation of acetabular fractures. *Injury*. 2020. Nov 16.

Flanagan, CD., Tamer, P., Cooperman, DR., Crisco, JJ., Ladd, AL., Liu, RW. An anatomic evaluation of the trapezium and its relationship to basilar joint osteophytic change. *Hand*. 2020 Sep 16:1558944720946490.

Scollan, JP., Bertsch, ML., **Flanagan, CD.**, Chughtai, M., Bafus, BT. Acute Compartment Syndrome of the Deltoid: A Case Report and Systematic Review of the Literature. *JSES International*. 2020. Sept 7.

Flanagan CD, Joseph NM, Benedick A, Vallier HA. Five-year trends in opioid prescribing following orthopaedic trauma. *JAAOS Global Research & Reviews*. 2020 Aug 1;4(8):e20.

Joseph, NM., Benedick, A., **Flanagan, CD.**, Simpson, M., Kalina, M., Hendrickson, S., Breslin, M., Vallier, HA. Prevalence of post-traumatic stress disorder in acute trauma patients. Orthopaedic Trauma Association International. 2020 Mar 3;(1).

Du, J., **Flanagan, CD.**, Bensusan, J., Knusel, K., Akkus, O., Rimnac, C. Raman Biomarkers are Associated with Cyclic Fatigue Life of Human Allograft Cortical Bone. Journal of Bone and Joint Surgery America. 2019 Sept; 101(17):85

Rascoe, AS., **Flanagan, CD.**, Kim, C., Vallier, HA. Variations in revenue generation for the care of orthopaedic trauma patients. JAAOS-Journal of the American Academy of Orthopaedic Surgeons. 2019 Jun 17.

Flanagan, CD., Rascoe, AS., Wang, D., Vallier, HA. The trauma service line: Revenue from subsequent injury and non-injury related care. Journal of Orthopaedic Trauma. 2019 Apr.

Morrison, TA., **Flanagan, CD.**, Ivanov, S., Wera, GD. Appropriate Use Criteria for the Nonarthroplasty Treatment of Knee Osteoarthritis in Veterans. Federal Practitioner. 2019 Mar;36(3):116.

Flanagan CD, Wysong-Fuell, E, Ramey, JS,, Vallier, HA. Understanding the opioid epidemic: Factors predictive of in-patient and post-discharge prescription opioid use in an orthopaedic trauma population. Journal of Orthopaedic Trauma. 2018 Oct 1;32(10):e408-14.

Flanagan CD., Wysong-Fuell, E, Ramey, JS,, Vallier, HA. Healthcare providers likely under-detect the prevalence of substance use in orthopaedic trauma patients. Case Orthopaedic Journal. 2018

Flanagan, CD, Rascoe, AS, Wang, DM, Vallier, HA. Revenue for initial orthopaedic trauma care: effect of patient and injury characteristics. Journal of Orthopaedic Trauma. 2018 Sep 1;32(9):433-8.

Flanagan CD, Childs BR, Moore TA, Vallier HA. Early Tracheostomy in Patients with Traumatic Cervical Spinal Cord Injury Appears Safe and May Improve Outcomes. Spine. 2018 Aug 1;43(16):1110-6.

Flanagan CD., Wysong-Fuell, E, Ramey, JS, Gunasekar, A, Vallier, HA. Traumatic orthopaedic injury is not an independent risk factor for high post-discharge opioid consumption. Journal of the American Academy of Orthopaedic Surgery Global Research and Reviews. 2017; 00e 58.

Flanagan, CD., Unal M, Akkus O, Rimnac CM. Raman spectral markers of collagen denaturation and hydration in human cortical bone tissue are affected by radiation sterilization and high cycle fatigue damage. Journal of the Mechanical Behavior of Biomedical Materials. 2017 Jul 13.

Zhou C, Huang Z, Ding L, Deel ME, Arain FM, Murray CR, Patel RS, **Flanagan CD**, Gallagher MJ. Altered cortical GABAA receptor composition, physiology, and endocytosis in a mouse model of a human genetic absence epilepsy syndrome, *Journal of Biological Chemistry*, July 2013, 21458-21472.

BOOK CHAPTERS

Flanagan, CD., Vallier, HA. Fractures: The polytraumatized patient. *Musculoskeletal disorders*. Springer Publishing.

Presentations

PODIUM PRESENTATION:

Flanagan, CD., Joseph, NM., Heimke, IM, Cho, E., Pothireddy, S., Scarcella, N., Vallier, HA. Heterotopic ossification is associated with worse functional outcomes following operative fixation of acetabular fractures. *American Academy of Orthopaedic Surgeons Annual Meeting*. Accepted. September 2021.

Talus fracture study group. Risk factors for avascular necrosis following talus fractures. *Orthopaedic Trauma Association Annual Meeting*. October 2020.

Joseph, NM., Benedick, A., **Flanagan, CD.**, Simpson, M., Kalina, M., Hendrickson, S., Breslin, M., Vallier, HA. Prevalence of post-traumatic stress disorder in acute trauma patients. *American Academy of Orthopaedic Surgeons Annual Meeting*. Orlando, Florida. March 2020.

Du, J., **Flanagan, CD.**, Bensusan, J., Knusel, K., Rimnac, C.. Raman biomarkers predict cyclic fatigue life of human allograft cortical bone. *American Academy of Orthopaedic Surgeons Annual Meeting*. Las Vegas, NV. March 12, 2019.

Flanagan, CD., Tamer, P., Cooperman, D., Crisco, J., Ladd, A., Liu, R. An osteological evaluation of the trapezium and its relationship to basilar joint arthritis. *3rd International Thumb Osteoarthritis Workshop*. Palo Alto, CA. November 8-9, 2018

Du, J., **Flanagan, CD.**, Bensusan, J., Knusel, K., Akkus, O., Rimanc, C. Raman biomarkers predict cyclic fatigue life of human allograft cortical bone. *Summer Meeting of the Hip Society*. New York, NY. October 5, 2018.

Morrison, T., **Flanagan, CD.**, Ivanov, S., Wera, G. Evaluation of the American Academy of Orthopaedic Surgeons appropriate use criteria for non-arthroplasty treatment of knee osteoarthritis. *AAOS Annual Meeting—Veterans Affairs Subsection*. New Orleans, LA. March 10, 2018.

Flanagan, CD., Wysong, E., Ramey, J., Vallier, H. Factors predictive of inpatient and post-discharge opiate prescription consumption in an orthopaedic trauma population. Cleveland Orthopaedic Society. Cleveland, OH. January 2018.

Flanagan, CD., Wysong, E., Ramey, J., Vallier, H. Factors predictive of inpatient and post-discharge opiate prescription consumption in an orthopaedic trauma population. MetroHealth Research Symposium. Cleveland, OH. October 2017.

Flanagan CD, Unal M, Akkus O, Rimnac CM. Raman spectral markers of collagen denaturation and hydration in human cortical bone tissue are affected by radiation sterilization and high cycle fatigue damage. Victor M. Goldberg Memorial Lecture Series. Cleveland, OH, USA. October 24, 2017.

POSTER PRESENTATIONS:

Joseph, NM., **Flanagan, CD.,** Heimke, IM., Pothireddy, S., Scarcella, N., Breslin, M., Vallier, HA. Risk factors for poor functional outcomes in acetabular fractures. Orthopaedic Trauma Association Annual Meeting. October 2020. Accepted.

Flanagan, CD., Joseph, NM., Heimke, IM., Pothireddy, S., Scarcella, N., Vallier, HA. Prevention of heterotopic ossification may enhance functional outcomes following fixation of acetabular fractures. Orthopaedic Trauma Association Annual Meeting. October 2020. Accepted.

Flanagan, CD., Joseph, NM., Copp, J., Romeo, N., Alfonso, N., Hirschfeld, AG. Non-weight bearing following intramedullary fixation of femoral diaphyseal fractures slows radiographic healing by 58% and may contribute to non-union risk. Orthopaedic Trauma Association Annual Meeting. October 2020. Accepted.

Vallier, H., **Flanagan, CD.,** Joseph, N. Orthopaedic surgery residents report little subjective or objective familiarity with healthcare costs. American Orthopaedic Association. Baltimore, Maryland. June 2020. Accepted.

Ina, J., Dumaine, A., **Flanagan, CD,** Gilmore, A. Findings associated with non-accidental trauma workup in isolated femoral diaphyseal fractures. American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, Florida. March 2020.

Flanagan, CD., Joseph, N., Benedick, A., Vallier, H. A pilot study: Mental health support may reduce post-injury opioid use in orthopaedic trauma patients who screen positive for PTSD. Orthopaedic Trauma Association Annual Meeting. Sept 2019

Joseph, N., Benedick, A., Breslin, M., **Flanagan, CD.,** Simpson, M., Kalina, M., Gill, B., Hendrickson, S., Vallier, H. Prevalence of post-traumatic stress disorder in acute trauma patients. Orthopaedic Trauma Association Annual Meeting. Sept 2019

Du, J., **Flanagan, CD.**, Bensusan, J., Knusel, K., Akkus, O., Rimnac, C. Raman biomarkers predict cyclic fatigue life of human allograft cortical bone. Orthopaedic Research Society Annual Meeting. Austin, Texas. February 2019.

Flanagan, CD., Rascoe, A., Wang, D., Vallier, H. Value of the trauma service line: Revenue related to injury and non-injury related care. American Academy of Orthopaedic Surgeons Annual Meeting. Las Vegas, NV. March 12, 2019

Du, J., Wang, B., **Flanagan, CD.**, Akkus, O., Rimnac, C. Prospective assessment of the effect of cyclic fatigue on Raman spectral biomarkers of bone tissue. International Combined Meeting of Orthopaedic Research Societies. June 19-22, 2019. Montreal, Quebec, Canada.

Flanagan, CD., Smith, N., Berretta, S., Kraay, M., Lewandowski, J., Ghita, O., Rimnac, C. Pilot Study of Additively Manufactured PEEK-HA: In Vivo Biologic and In Vitro Fracture Properties. Orthopaedic Research Society. New Orleans, LA. 2018

Flanagan, CD., Wysong, E., Ramey, J., Vallier, H. Factors predictive of inpatient and post-discharge opiate prescription consumption in an orthopaedic trauma population. MetroHealth Research Symposium. Cleveland, OH. 2017

Flanagan, CD., Qian, J., Unal, M., Akkus, O., Rimnac, C. Raman spectral markers of collagen hydration and denaturation in bone are affected by radiation sterilization and high cycle fatigue damage. Research ShowCase, Case Western Reserve University, Cleveland, OH. 2017.

Flanagan, CD., Qian, J., Unal, M., Akkus, O., Rimnac, C. Raman spectral markers of collagen hydration and denaturation in bone are affected by radiation sterilization and high cycle fatigue damage. Engineering Week, Case Western Reserve University, Cleveland, OH. 2017

Flanagan, CD., Wysong, E., Ramey, J., Vallier, H. Factors predictive of inpatient and post-discharge opiate prescription consumption in an orthopaedic trauma population. Orthopaedic Trauma Association. Vancouver, BC. 2017.

Flanagan, CD., Hong, Z., Archer, S.L. Deficient DRP1-mediated mitochondrial fission in human ductus arteriosus smooth muscle cells in patent ductus arteriosus. Pritzker School of Medicine Summer Research Program; Chicago IL. 2013

Steffner, R., **Flanagan, CD.**, Haydon, R. Unplanned excision of high-grade subcutaneous sarcomas: who needs adjuvant radiation after re-excision. Musculoskeletal Tumor Society; San Francisco CA. 2013.