

Marian University College of Osteopathic Medicine

Books & Publications – AY2021/22

Books & Edited Volumes:

1. Mullings J, Arbor S, **Cumbay M**. *Health-Related Quality of Life: Measurement Tools, Predictors and Modifiers*. Intechopen. 2022.

Articles:

1. **Ahmad A, Akbar S**. Molecular characterization of bacterial community composition in the rhizosphere of invasive plant species amur honeysuckle (*Lonicera maackii*) in an urban wetland forest. *Advances in Microbiology*. In press.
2. **Ahmad A, Akbar S**. Detection of *Aeromonas* spp. in environmental DNA from fish production ponds in southern Indiana using 16S rDNA gene sequence analyses. *Proceedings of the Indiana Academy of Science* 2021.
3. **Anloague A, Patel D, Henderson S, Rolfs H, Powell M, Patel SB, LaFave NM, Marshall VR, Wacker BG, Young CM, Hum JM, Gries K, Lowery JW**. "A call for research on soft tissue manipulation (STM) as a bone anabolic therapy." *Journal of Rehabilitation Therapy*. 2021;3(1):31-34.
4. **Arbor S**. Ethical Issues Which Have Prevented the U.S. from Maximizing Quality of Life Years. Appears in *Quality of Life Modifiers Due to Biological, Psychological, and Societal Factors*. IntechOpen, 2021. DOI: 10.5772/intechopen.97561.
5. Badin JK, **Eggenberger C**, Rodenbeck SD, Hashmi ZA, Wang IW, Garcia JP, Alloosh M, Sturek M. Intracellular Ca²⁺ Dysregulation in Coronary Smooth Muscle Is Similar in Coronary Disease of Humans and Ossabaw Miniature Swine. *J Cardiovasc Transl Res*. 2022 Feb;15(1):167-178.
6. Barjon K, **Mikhail L**. Uterine Leiomyomata. In: *StatPearls*. Treasure Island (FL): StatPearls Publishing; 2021 August.
7. Barnes PL, Casella FJ, Lai H, Airaksinen O, **Kuchera ML**. Retention of tissue texture change after cervical muscle energy and high velocity low amplitude intervention: implications for treatment intervals. *J Osteopath Med*. 2022 Jan 24. doi: 10.1515/jom-2021-0187. PMID: 35077638.
8. **Baughner EC, Batarseh TR, Becker AK, Cantu AJ, Carr EW, Sakthi Velavan S**. Multiple Osteochondromas Comorbid With Enlarged Parietal Foramina, Elongated Styloid Processes, and Tibiofibular Synostosis. *Am J Clin Pathol*. 2021 Sep 8;156(4):513-520. doi: 10.1093/ajcp/aqaa282. PMID: 33769443.
9. **Bennett K, Vincent T, Sakthi-Velavan S**. The Patellar Ligament: A Comprehensive Review. *Clin Anat*. 2021 Sep 23. doi: 10.1002/ca.23791. Epub ahead of print. PMID: 34554600.
10. Biernbaum EN, Gnezda A, **Akbar S**, Franklin R, Venturelli PA, McKillip JL. Lactoferrin as an antimicrobial against *Salmonella enterica* and *Escherichia coli* O157:H7 in raw milk. *JDS Communications*. 2021, 2(3):92-97.
11. Biruete A, Metzger CE, Chen NX, Swallow EA, **Vrabec C**, Clinkenbeard EL, Stacy AJ, Srinivasan S, O'Neill K, Avin KG, Allen MR, Moe SM. Effects of ferric citrate and intravenous iron sucrose on markers of mineral, bone, and iron homeostasis in a rat model of CKD-MBD. *Nephrol Dial Transplant*. 2022 Apr 28:gfac162. doi: 10.1093/ndt/gfac162. Epub ahead of print. PMID: 35482713.
12. Brooks K, Holman M, **Steding C**, Tucker M. A founder CHEK2 pathogenic variant in association with kidney cancer. *Cancer Genet*. 2021 Dec 23;262-263:40-42. doi: 10.1016/j.cancergen.2021.12.007. Epub ahead of print. PMID: 34992046.
13. **Bundy JA**, Yang JT, Morscher MA, Steiner RP, Adamczyk MJ, Weiner DS, Jacquet RD, Landis WJ. Induced hypothyroidism alters articular cartilage in skeletally immature miniature swine. *Connect Tissue Res*. 2021 Nov;62(6):643-657. PMID: 33073630.
14. **Chicoine NH**, Griffith-Linsley J, Goh J, Manaloor JJ, Raskin JS. Giant actinomyces brain abscess in an immunocompetent child: A management strategy. *Surg Neurol Int* 2021;12:325.
15. De Seta F, Johnson Z, Stabile G, Martin A, **Larsen B**. Rational development and evaluation of novel formulations for urinary health. *Eur J Obstet Gynecol Reprod Biol*. 2021 Dec 28;269:90-97. PMID: 34979364.
16. De Seta F, **Larsen B**. Antimicrobial Activity of a Vaginal Gel Formulation: Considerations Related to Vaginal Infection and Dysbiosis. *Pathogens*. 2021 Dec 3;10(12):1576.

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17. Falls ME, **Vincze JL**, Meleca JB, Vernon DJ, Lee HBH, Shipchandler TZ. Patient Reported Outcome Measures for Functional and Aesthetic Rhinoplasty. *Curr Otorhinolaryngol Rep* (2022). <https://doi.org/10.1007/s40136-022-00397-3>.
18. Fodstad JC, **Greve KT**, Curtin MJ, Lagges AM. Treatment of Typically Developing Toddlers with Hair-Pulling Behavior and Concurrent Poor Sleep Hygiene: A Case Series. *J Dev Behav Pediatr*. 2021 Oct-Nov 01;42(8):677-681. PMID: 33734098.
19. Fry D, Groepper D, MacCarrick G, Demo EM, Thomas MJ, Wilkes MJ, Lyons MJ, Tucker ME, **Steding C**, Fleischer J. Loey-Dietz syndrome caused by 1q41 deletion including TGFB2 is associated with a neurodevelopmental phenotype. *Am J Med Genet A*. 2022 Jul;188(7):2237-2241. doi: 10.1002/ajmg.a.62758. PMID: 35426477.
20. **Gelfman DM**. Appropriately Targeting Treatment of Atrial Fibrillation to Maximize Benefits in Older Adults. *Amer J Med*. 2022 Jan;135(1):3-4. PMID: 34343518.
21. **Gelfman DM**. We Need to Inform COVID-19 Vaccinating Clinics Concerning Polyethylene Glycol Allergy. *J Am Soc Echocardiogr*. 2021 Nov;34(11):1229-1230. doi: 10.1016/j.echo.2021.08.010. Epub 2021 Aug 23. PMID: 34438025; PMCID: PMC8381617.
22. **Gelfman DM**. The history of polio and cigarettes, and the need for a COVID-19 vaccine mandate. *Hektoen Inter*. Summer 2021.
23. **Gelfman DM**. Reflections on quinine and its importance in dermatology today. *Clin Dermatol*. 2021 Sep-Oct;39(5):900-903. doi: 10.1016/j.clindermatol.2021.08.017. Epub 2021 Aug 12. PMID: 34785019.
24. **Gelfman DM**. A detailed depiction of a “crime scene” circa 1455. *Hektoen Inter*. Winter 2022.
25. **Gries KJ, Zysik VS, Jobe TK, Griffin N, Leeds BP, Lowery JW**. Muscle-derived factors influencing bone metabolism. *Seminars in Cell and Development Biology*. 2021 Oct 29:S1084-9521(21)00272-X. doi: 10.1016/j.semcdb.2021.10.009.
26. Gunderson ZJ, **Campbell ZR**, McKinley TO, Natoli RM, Kacena MA. A comprehensive review of mouse diaphyseal femur fracture models. *Injury*. 2020 Jul;51(7):1439-1447.
27. Hales JB, Reitz NT, **Vincze JL**, Ocampo AC, Leutgeb S, Clark RE. A role for medial entorhinal cortex in spatial and nonspatial forms of memory in rats. *Behav Brain Res*. 2021 Jun 11;407:113259. doi: 10.1016/j.bbr.2021.113259. PMID: 33775779; PMCID: PMC8143915.
28. Hamby T, Wilson DP, Bui P, **Lowery J**, Basha R. Medical student research opportunities: a survey of osteopathic medical schools in the United States. *J Osteopath Med*. 2022 Mar 2;122(6):289-295. doi: 10.1515/jom-2021-0242. PMID: 35245010; PMCID: PMC9131179.
29. Hammer MF, Pan Y, **Cumbay M**, Pendziwiat M, Afawi Z, Goldberg-Stern H, Johnstone L, Helbig I, Cummins TR. Whole exome sequencing and co-expression analysis identify an SCN1A variant that modifies pathogenicity in a family with Genetic Epilepsy and Febrile Seizures Plus (GEFS+). *Epilepsia*. 2022 May 20. doi: 10.1111/epi.17296. Epub ahead of print. PMID: 35592948.
30. **Hernon CA**, Elsayed A, Vicente RM, Zamarioli A, Kacena MA, **Lowery JW**. The Effects of Caloric Restriction and/or Intermittent Fasting on Bone Health. *J Rehab Therapy*. 2021;3(2):10-13.
31. Houserman DJ, Raszewski JA, Palmer B, Chavan B, **Sferrella A**, Campbell M, Santanello S. The Impact of the Fascia Iliaca Block Beyond Perioperative Pain Control in Hip Fractures: A Retrospective Review. *Geriatr Orthop Surg Rehabil*. 2022 Jun 30;13:21514593221099107. doi: 10.1177/21514593221099107. PMID: 35794869; PMCID: PMC9251979.
32. **Hsiao YT, Manikowski KJ, Snyder S, Griffin N, Orr AL, Hulsey EQ, Born-Evers G, Zukosky T, Squire ME, Hum JM, Metzger CE, Allen MR, Lowery JW**. NMUR1 in the NMU-Mediated Regulation of Bone Remodeling. *Life (Basel)*. 2021 Sep 29;11(10):1028. doi: 10.3390/life11101028. PMID: 34685399; PMCID: PMC8538501.
33. **Jackson KL, Ogunbekun O, Nick B, Griffin N, Hamby T, Herber J, Hum JM, Zahl S, Baumann M, Lowery JW**. Addressing Motivations and Barriers to Research Involvement during Medical School among Osteopathic Medical Students in the United States. *Education Sciences*. 2022; 12(6):407. <https://doi.org/10.3390/educsci12060407>
34. **Liesen MP**, Noonan ML, Ni P, Agoro R, **Hum JM**, Clinkenbeard EL, Damrath JG, Wallace JM, Swallow EA, Allen MR, White KE. Segregating the effects of ferric citrate-mediated iron utilization and FGF23 in a mouse model of CKD. *Physiol Rep*. 2022 Jun;10(11):e15307. doi: 10.14814/phy2.15307. PMID: 35656701.

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35. Liew-Spilger AE, Sorg NR, Brenner TJ, Langford JH, Berquist M, Mark NM, **Moore SH**, Mark J, Baumgartner S, Abernathy MP. Viscoelastic Hemostatic Assays for Postpartum Hemorrhage. *J Clin Med*. 2021 Aug 31;10(17):3946. doi: 10.3390/jcm10173946. PMID: 34501395.
36. Ma L, Sahu SK, Cano M, Kuppuswamy V, **Bajwa J**, McPhatter J, Pine A, Meizlish ML, Goshua G, Chang CH, Zhang H, Price C, Bahel P, Rinder H, Lei T, Day A, Reynolds D, Wu X, Schriefer R, Rauseo AM, Goss CW, O'Halloran JA, Presti RM, Kim AH, Gelman AE, Dela Cruz CS, Lee AI, Mudd PA, Chun HJ, Atkinson JP, Kulkarni HS. Increased complement activation is a distinctive feature of severe SARS-CoV-2 infection. *Sci Immunol*. 2021 May 13;6(59):eabh2259. doi: 10.1126/sciimmunol.abh2259. PMID: 34446527; PMCID: PMC8158979.
37. Marotta DA, Mason MC, **Abraham BM**, Kesserwani H. Myeloneuropathy in the Setting of Hypocupremia: An Overview of Copper-Related Pathophysiology. *Cureus* 13(7): e16254.
38. Mayrovitz HN, **Berthin T**. Assessing Potential Circadian, Diurnal, and Ultradian Variations in Skin Biophysical Properties. *Cureus*. 2021 Sep 2;13(9):e17665. doi: 10.7759/cureus.17665. PMID: 34650847; PMCID: PMC8489538.
39. McKinley TO, Childress P, Jewell E, Griffin KS, Wininger AE, Tucker A, Gremah A, **Savaglio MK**, Warden SJ, Fuchs RK, Natoli RM, Shively KD, Anglen JO, Gabriel Chu TM, Kacena MA. Bone Morphogenetic Protein-2 Rapidly Heals Two Distinct Critical Sized Segmental Diaphyseal Bone Defects in a Porcine Model. *Mil Med*. 2021 Sep 24;usab360. doi: 10.1093/milmed/usab360. PMID: 34557897.
40. Mendell NL, **Xu G**, Shelite TR, Bouyer DH, Walker DH. A Murine Model of Waning Scrub Typhus Cross-Protection between Heterologous Strains of *Orientia tsutsugamushi*. *Pathogens*. 2022; 11(5):512. <https://doi.org/10.3390/pathogens11050512>.
41. Metzler-Wilson K, **Wilson TE**, Ausmus SM, Sveteckis AM. Effect of sensory blockade and rate of sensory stimulation on local heating induced axon reflex response in facial skin. *Auton Neurosci*. 2021 Jul;233:102809. doi: 10.1016/j.autneu.2021.102809. Epub 2021 Apr 7. PMID: 33862476.
42. **Peppin JF**, Pergolizzi JV Jr, Gan TJ, Raffa RB. The problem of postoperative respiratory depression. *J Clin Pharm Ther*. 2021 Oct;46(5):1220-1225. doi: 10.1111/jcpt.13382. Epub 2021 Mar 3. PMID: 33655504.
43. **Peppin JF**, Pergolizzi JV Jr, Dahan A, Raffa RB. Are opioid receptor antagonists adequate for "Opioid" overdose in a changing reality? *J Clin Pharm Ther*. 2021 Aug;46(4):861-866.
44. Prendergast HM, Escobar-Schulz S, Del Rios M, Petzel-Gimbar R, McPherson C, Jackson M, **Terrell K**, Heintz SW. Community Targeting of Uncontrolled Hypertension: Results of a Hypertension Screening and Education Intervention in Community Churches Serving Predominantly Racial/Ethnic Minority Populations. *Health Promot Pract*. 2021 Sep;22(5):714-723. doi: 10.1177/1524839920933897. Epub 2020 Jun 17. PMID: 32552138.
45. Razeq AAKA, Elsebaie NA, Gamaleldin OA, AbdelKhalek A, **Mukherji SK**. "Role of MR imaging in head and neck squamous carcinoma." *Magnetic Resonance Imaging Clinics*. 2022;30(1):1-18.
46. Rivera S, **Dykstra C**, Flood A, Herbenick D, DeMaria AL. "Worse Than Disappointing": Prediagnostic Health Care Challenges of Women With Inflammatory Vulvar Dermatoses. *J Low Genit Tract Dis*. 2022 Jan 1;26(1):53-59. PMID: 34928253.
47. **Sakthi-Velavan S, Zahl S**. Integration of Virtual Microscopy Podcasts in the Histology Discipline in Osteopathic Medical School: Learning Outcomes. *Anat Sci Educ*. 2022 Apr 2. doi: 10.1002/ase.2181. Epub ahead of print. PMID: 35366372.
48. Schuette HB, Kraeutler MJ, **Schrock JB**, McCarty EC. Primary Autologous Chondrocyte Implantation of the Knee Versus Autologous Chondrocyte Implantation After Failed Marrow Stimulation: A Systematic Review. *Am J Sports Med*. 2021 Jul;49(9):2536-2541.
49. Stuard W, Oduguwa E, Whelihan J, Loehr P, Rea S, Vogt B, **Luong P**, Atiq Z, Ashruf O. Corneal transplant, not all the rules prevent blindness. *International Journal of Eye Banking*. 2021;9(3).
50. Taylor J, **Wright A, Summers M**. The pandemic silver lining: preparing osteopathic learners to address healthcare needs using telehealth. *J Osteopath Med*. 2021 Oct 21. doi: 10.1515/jom-2021-0162. Epub ahead of print. PMID: 34674408.
51. **Wilson TE, Narra S**, Metzler-Wilson K, **Schneider A, Bullens KA, Holt IS**. Role of Bradykinin Type 2 Receptors in Human Sweat Secretion: Translational Evidence Does Not Support a Functional Relationship. *Skin Pharmacol Physiol*. 2021;34(3):162-166. PMID: 33794540.

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52. Zamarioli A, **Campbell ZR**, Maupin KA, Childress PJ, Ximenez JPB, Adam G, Chakraborty N, Gautam A, Hammamieh R, Kacena MA. Analysis of the effects of spaceflight and local administration of thrombopoietin to a femoral defect injury on distal skeletal sites. *NPJ Microgravity*. 2021 Mar 26;7(1):12.
53. Zaunbrecher N, **Arbor TC**, Samra NS. Anatomy, Abdomen and Pelvis, Internal Iliac Arteries. In: *StatPearls*. Treasure Island (FL): StatPearls Publishing; 2022 Jan.
54. **Zemkewicz JL**, Akwii RG, Mikelis CM, **Doçi CL**. Investigating Epidermal Interactions Through an In Vivo Cutaneous Wound-Healing Assay. *Methods Mol Biol*. 2021;2193:1-11. doi: 10.1007/978-1-0716-0845-6_1. PMID: 32808253.

