

ATSU Research

A newsletter produced by the Department of Research Support

Image (nerve fibers near a putative muscle spindle) courtesy of Dr. Keith Emslie and Dr. Ranuka Ramachandra

*“The common facts of today are the products of yesterday’s research.”
~Duncan MacDonald*

Publications

Abidogun TM, Ramnarine LA, Fouladi N, Owens J, Abusalih HH, **Bernstein J**, Aboul-Enein BH. [Female genital mutilation and cutting in the Arab League and diaspora: a systematic review of preventive interventions](#). Trop Med Int Health. 2022;27(5):468-478.

Ando A, Han PP, **Patel S**. [Thinking outside the tooth: diagnosis and management of patients with neuropathic orofacial pain](#). Dent Clin North Am. 2022;66(2):229-244.

Balkaran R, Esnard T, **Perry M**, Virtanen JI. [Challenges experienced in the dental care of persons with special needs: a qualitative study among health professionals and caregivers](#). BMC Oral Health. 2022;22:116.

Bansal S, Connolly M [alum], Harder T [alum]. [Impact of a whole-foods, plant-based nutrition intervention on patients living with chronic disease in an underserved community](#). Am J Lifestyle Med. 2022;16(3):382-389.

Barpujari A, Mehra M, Singh R, Wang K [student], Sherman B, Gopali R, Deme P, Reddy VP, Hoyt DB. [Political campaign contributions of surgeons in the United States throughout the 2020 election cycle](#). JAMA Surg. 2022;157(6):515-522.

Bass MB, Molina RL, Reardon EE, Porcello L, Goldberg J, Nickum A, **Lipke L**, Zeigen L, Eldredge JD, Wallerstein NB. [Trends in...controlled vocabulary and health equity](#). Med Ref Serv Q. 2022;41(2):185-201.

Batbold M, Lim SH, Jeong SR, Oh JS, Kim SJ, Kim YJ, Cho JH, Kang KH, Kim M, Hong M, Sung SJ, Kim YH, **Park JH**, Baek SH. [Vertical bony step between proximal and distal segments after mandibular setback is related with relapse: a cone-beam computed tomographic study](#). Am J Orthod Dentofacial Orthop. 2022;161(6):e524-e533.

Bordenave LM, Tovin MM, Blackinton M, Canbek J. [Volunteer leadership in the American Physical Therapy Association: a phenomenological study of early career physical therapists](#). Phys Ther. 2022;102(5):pzac024.

Breitenbach E, Adler K [adjunct], Pazdernik V. [Writing self-efficacy and performance among students in an online doctoral program](#). Int J Innov Teach Learn High Educ. 2022;3(1):1-14.

Publications, continued

Brennan ZJ, Young G [student], Packer K. [A tooth decaying in the appendix: an unusual cause of appendicitis](#). *Cureus*. 2022;14(4):e24086.

Burch AL, Salas-Provance MB, Kuamo'o A. [Higher education leaders' framing of organizational decisions during COVID-19](#). *J Allied Health*. 2022;51(2):e59-e63.

Dhanani Z, Huynh N [student], Tan L, Kottakota H, Lee R, Poulos P. [Deconstructing ableism in health care settings through case-based learning](#). *MedEdPORTAL*. 2022;18:11253.

Greer S [student], **Cramberg MJ, Young BA.** [Morphometrics of the spinal cord and surrounding structures in *Alligator mississippiensis*](#). *Biology (Basel)*. 2022;11(4):514.

Han BH, Cofell B [student], Everhart E [student], Humpal C [student], Kang SS, Lee SK, Kim-Han JS. [Amentoflavone promotes cellular uptake and degradation of amyloid-beta in neuronal cells](#). *Int J Mol Sci*. 2022;23(11):5885.

Heistermann P, Lang T [student], Heilmann C, Meyer-Treschan T. [A brief introduction to PAs in Germany](#). *JAAPA*. 2022;35(6):52-55.

Hong HR, Lee NK, **Park JH**, Ku JH, Kim J, Bayome M, Mo SS, Kook YA. [Long-term CBCT evaluation of mandibular third molar changes after distalization in adolescents](#). *Appl Sci*. 2022;12(9):4613.

Hoover EB, Butaney B, LeLacheur S, Straker H, **Bernard K**, Coplan B, Carr C, Blesse-Hampton L, Naidu A. [Wellness in physician assistant education: exploring mindfulness, well-being, and stress](#). *J Physician Assist Educ*. 2022;33(2):107-113.

Howell SEI, Fukuoka B. [Teledentistry for patient-centered screening and assessment](#). *Dent Clin North Am*. 2022;66(2):195-208.

Huertas-Zurriaga A, Palmieri PA [adjunct], Aguayo-Gonzalez MP, Dominguez-Cancino KA, Casanovas-Cuellar C, Vander Linden KL, Cesario SK, Edwards JE, Leyva-Moral JM. [Reproductive decision-making of Black women living with HIV: a systematic review](#). *Womens Health (Lond)*. 2022;18:17455057221090827.

Jurado CA, Mourad F, Cortes Trevino DA, Gouveia DN, Hyer J [student], Elgreatly A, Mahrous AM, Garcia-Godoy F, Tsujimoto A. [Comparison of full and partial coverage crowns with CAD/CAM leucite reinforced ceramic blocks on fracture resistance and fractographic analysis](#). *Dent Mater J*. 2022;41(2):295-301.

Kai A [resident], **Park JH, Bay C.** [The effectiveness of virtual interviews for postgraduate orthodontic residencies in North America](#). *J World Fed Orthod*. 2022;11(2):74-79.

Kawamura J, **Park JH**, Tamaya N, Oh JH, Chae JM [visiting scholar]. [Biomechanical analysis of the maxillary molar intrusion: a finite element study](#). *Am J Orthod Dentofacial Orthop*. 2022;161(6):775-782.

Khalafalla MG, Tran HN, **Khalafalla FG.** [P2Y purinergic signaling in prostate cancer: emerging insights into pathophysiology and therapy](#). *Biochim Biophys Acta Rev Cancer*. 2022;1877(3):188732.

Kim KJ, **Park JH**, Chang NY, Seo HY, Chae JM [visiting scholar]. [A cone-beam computed tomography evaluation of posterior available space in both arches relative to various skeletal patterns](#). *Am J Orthod Dentofacial Orthop*. 2022;161(6):798-808.

Lee GH, **Park JH**, Moon D, Lee SM. [Use of temporary skeletal anchorage devices for intrusive root movement of maxillary incisors in adult patients with Class II Division 2 malocclusion](#). *Am J Orthod Dentofacial Orthop Clin Companion*. 2022;2(2):152-166.

Publications, continued

Lindsay SL [alum], **Mathieson KM**. [Authentic leadership: does it relate to job satisfaction and engagement?](#) Nurs Manage. 2022;53(6):24-30.

Marshall AN [alum], Root HJ [alum], **Valovich McLeod TC, Lam KC**. [Patient-reported outcome measures for pediatric patients with sport-related injuries: a systematic review](#). J Athl Train. 2022;57(4):371-384.

McGinagle KL, Spangler EL, Pichel AC, Ayyash K, Arya S, Settembrini AM, Garg J, Thomas MM, Dell KE, Swiderski IJ [alum], Lindo F, Davies MG, Setacci C, Urman RD, Howell SJ, Ljungqvist O, de Boer HD. [Perioperative care in open aortic vascular surgery: a consensus statement by the Enhanced Recovery After Surgery \(ERAS®\) Society and Society for Vascular Surgery](#). J Vasc Surg. 2022;75(6):1796-1820.

McKinney G [student], Tidman MM [adjunct]. [Physical exercise versus intensive balance programs: a review of the effects exercise has on balance for patients with TBI and use of the BESS](#). J Exerc Physiol Online. 2022;25(2):70-81.

Nouri-Nikbakht R [student], Honsa ES. [The impact of vaginal microbiome composition, race, and immunological factors on preterm birth](#). Rev Res Med Microbiol. 2022;33(2):65-73.

Nurrohman H, Carter L [student], Barnes N [student], Zehra S [student], **Singh V**, Tao J, Marshall SJ, Marshall GW. [The role of process-directing agents on enamel lesion remineralization: fluoride boosters](#). Biomimetics (Basel). 2022;7(2):54.

Omar H, Musawi A, Allinson RD, Batista GR. [Effectiveness of an interactive training software on the accuracy of inferior alveolar nerve block \(IANB\) injection at a preclinical level \(pilot study\)](#). J Dent Educ. 2022;86(suppl 1):837-838.

Papademetriou M, Halim IA [resident], Kai A [resident], **Park JH**. [The use of a modified miniscrew-assisted rapid palatal expander to correct bilateral posterior crossbite and unilateral Class II malocclusion](#). Am J Orthod Dentofacial Orthop Clin Companion. 2022;2(3):272-282.

Park JH. [Autotransplantation and alveolar bone regeneration](#). Am J Orthod Dentofacial Orthop Clin Companion. 2022;2(3):207-208.

Park JH. [Gummy smile: its etiology and treatment options](#). Am J Orthod Dentofacial Orthop Clin Companion. 2022;2(2):123-124.

Park JH, Kim KW, Lee NK, Ku JH, Kim J, Kook YA, Chou AHK, Kim Y. [The effects of a corticotomy on space closure by molar protraction using TSADs in patients with missing mandibular first molars](#). Orthod Craniofac Res. 2022;25(2):159-167.

Pendlebury GA, Oro P [student], Haynes W [student], **Byrnes TR, Keane J, Goldstein L**. [Advocacy for change: an osteopathic review of traumatic brain injury among combat veterans](#). Cureus. 2022;14(5):e25051.

Peterson S [adjunct], Weible K, Halpert B, Rhon DI. [Continuing education courses for orthopedic and sports physical therapists in the United States often lack supporting evidence: a review of available intervention courses](#). Phys Ther. 2022;102(6):pzac031.

Pulia MS, Anderson J, Ye Z, Elsayed NS, Le T, Patitucci J, Ganta K, Hall M, **Singh VK**, Shukla SK. [Expression of Staphylococcal virulence genes in situ in human skin and soft tissue infections](#). Antibiotics (Basel). 2022;11(4):527.

Schoenfuss ES [student]. [Diagnosis, management, and prevention of acute rheumatic fever in the United States](#). JAAPA. 2022;35(5):21-27.

Publications, continued

Stacer RJ, Smith HE, **Blessing D**, Head J. [A pilot elective course to enhance geriatric medical education using cognitive stimulation therapy](#). Gerontol Geriatr Educ. 2022;43(2):173-184.

Tidman MM [adjunct], White D [student], White T [alum]. [Effects of an low carbohydrate/healthy fat/ketogenic diet on biomarkers of health and symptoms, anxiety and depression in Parkinson's disease: a pilot study](#). Neurodegener Dis Manag. 2022;12(2):57-66.

VanSickle C, Liese KL, Rutherford JN. [Textbook typologies: challenging the myth of the perfect obstetric pelvis](#). Anat Rec (Hoboken). 2022;305(4):952-967.

White DR [student], Palmieri PA [adjunct]. [Women caring for husbands living with Parkinson's disease: a phenomenological study protocol](#). J Pers Med. 2022;12(5):659.

Xi AS, **Jaqua B**, Johnson W, Swope K, Belfer J, Jardine D, Dewey JJ. [What do stakeholders want from resident conference programming?](#) J Grad Med Educ. 2022;14(3):365-368.

Yeon BM, Lee NK, **Park JH**, Kim JM, Kim SH, Kook YA. [Comparison of treatment effects after total mandibular arch distalization with miniscrews vs ramal plates in patients with Class III malocclusion](#). Am J Orthod Dentofacial Orthop. 2022;161(4):529-536.

Presentations and abstracts

Addison J [student], **Alexander JL**. Are advanced practice providers able to educate patients and effectively manage potential rabies exposures? Poster presented at: National Environmental Health Association 85th Annual Educational Conference; June 28-July 1, 2022; Spokane, WA.

Allareddy V, Frazier-Bowers S, **Park JH**, Gilbert GH. Updates from the National Dental Practice-Based Research Network, Funding: NIH/NIDCR-U19-DE-028717, NIH/NIDCR-U01-DE-028727. Presented at: 2022 American Association of Orthodontists' Annual Session; May 21-24, 2022; Miami Beach, FL.

Berg V [student], **Starks Z**, **Degenhardt B**. Diagnostic palpatory force asymmetries persist throughout OMM training. Poster presented virtually at: International Consortium on Manual Therapies 2022 Conference; May 4-June 3, 2022.

Bobier B [alum], **Snyder Valier AR**, Marshal AN [alum], **Lam KC**. Use of region-specific patient-reported outcome measures by athletic trainers. Presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA. Abstract published in: J Athl Train. 2022;57(suppl 6):S44.

Brooks WJ, **Johnson JC**, **Degenhardt BF**. Assessment of the safety of osteopathic manipulative treatment based on patient report: an observational study conducted by DO-Touch.NET. Poster presented virtually at: International Consortium on Manual Therapies 2022 Conference; May 4-June 3, 2022.

Chang Y, Dagat LA [alum], Yusuf A [alum], Zahriya Y [student], Staputyte K [alum], Worley E, Holt A [alum], Canuteson N [student], Messieha V [student], Halila K [student]. Interactions between β 3-adrenergic receptors and bFGF-induced effects in rat aortic smooth muscle cells. Poster presented at: Experimental Biology 2022; April 2-5, 2022; Philadelphia, PA. Abstract published in: FASEB J. 2022;36(suppl 1):R2633.

Cimino GK [alum], **Lam KC**. Epidemiology of wrestling-related injuries treated in US emergency departments, 2007-2020. Presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA. Abstract published in: J Athl Train. 2022;57(suppl 6):S60.

Presentations and abstracts, continued

Cohen GW, Van Lunen BL, Cavallario JM, Vela LI, Jones BC [postdoctoral fellow]. Preceptors' perceptions of clinical reasoning in athletic training practice. Poster presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA. Abstract published in: *J Athl Train.* 2022;57(suppl 6):S200.

Cravens E [student], Thekkumkara T, **Yesudas R**. Downregulation of angiotension type 1 receptor by ferulic acid in rat liver epithelial cells. Poster presented at: Experimental Biology 2022; April 2-5, 2022; Philadelphia, PA. Abstract published in: *FASEB J.* 2022;36(suppl 1):R3650.

Degenhardt BF. Participating in the scientific process, a clinician's role. Presented virtually at: International Consortium on Manual Therapies 2022 Conference; May 4-June 3, 2022.

Duong ML, Morales K. Sedation dentistry in outpatient clinical settings. Presented at: Special Care Dentistry Association 34th Annual Meeting; May 5-7, 2022; Columbus, OH.

Duszynski HM [alum], Weber Rawlins ML [alum], **Valovich McLeod TC**. Perceptions of academic concerns and performance ability among adolescents following a sport-related concussion. Poster presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA. Abstract published in: *J Athl Train.* 2022;57(suppl 6):S180.

Johnson JC, Degenhardt BF. Patient-reported outcomes following a single session of osteopathic manipulative treatment: a prospective, observational study conducted by DO-Touch.NET. Poster presented virtually at: International Consortium on Manual Therapies 2022 Conference; May 4-June 3, 2022.

Jones E, Eberline A, Kybartas T, Lee J, **Weemer M**, Kostelnick J, Calderon S, Finan L, Meyers A, Wu N. Collective action for school-wellness: an ecological example. Presented at: International Association for Physical Education in Higher Education (AIESEP) 2022 World Congress; June 15-18, 2022; Gold Coast, Australia.

Lakhani M [student], **Ahmad Z**. Inhibition of *Escherichia coli* ATP synthase by dietary pomegranate phenolics. Poster presented at: Experimental Biology 2022; April 2-5, 2022; Philadelphia, PA. Abstract published in: *FASEB J.* 2022;36(suppl 1):0R819.

Lam KC. Making clinical data work for you: an interactive, hands-on experience in turning data into usable information for quality improvement efforts. Presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA.

Lam KC, Marshall AN [alum]. The immediate impact of ankle and knee injuries on health-related quality of life in adolescent athletes: a report from the Athletic Training Practice-Based Research Network. Presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA. Abstract published in: *J Athl Train.* 2022;57(suppl 6):S15.

Lammers CL, Reagan VC, Decoster LC, Hollingworth AT, **Welch Bacon CE, Valovich McLeod TC, Beltz EM**. Reliability of a novel concussion documentation audit tool. Presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA. Abstract published in: *J Athl Train.* 2022;57(suppl 6):S105.

Lepley L, **Lam KC**. NATA Foundation research grants workshop: strategies and best practices. Presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA.

Line D, **McNatt MK, Thomas S, Presley M**. Long COVID's impact on Southwestern American Indian populations. Presented at: National Rural Health Association 45th Annual Rural Health Conference; May 10-13, 2022; Albuquerque, NM.

Presentations and abstracts, continued

Makin IRS, Jabs H, Mast TD, Radziemski L. Charging of devices for healthcare applications, using ultrasound wireless power. Presented at: 182nd Meeting of the Acoustical Society of America; May 23-27, 2022; Denver, CO. Abstract published in: J Acoust Soc Am. 2022;151(4 pt 2):A245.

Marshall AN [alum], Needle AR, **Lam KC**. Does treatment provided for lateral ankle sprains differ between patients with recurrent and first-time injuries? A report from the Athletic Training Practice-Based Research Network. Presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA. Abstract published in: J Athl Train. 2022;57(suppl 6):S152.

McCann RS, Suttmiller AM, **Welch Bacon C**, Gribble PA, Cavallario JM. Outcomes assessed by athletic trainers to determine return-to-activity following an ankle sprain. Poster presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA. Abstract published in: J Athl Train. 2022;57(suppl 6):S266.

Memmini AK, Freeman D, Palincsar AS, Popovich MJ, Schuyten KH, Herring SA, Scott KL, Clugston JR, Choe MC, Bailey CM, Brooks MA, Anderson SA, McCrea MA, Kontos AP, Wallace JS, Register-Mihalik JK, Kasamatsu TM, **Valovich McLeod TC**, Weber Rawlins ML [alum], Snedden T, Akani B, Orr LCL, Kaplan ML, Hasson RE, Rifat SF, Broglio SP. Development of the post-concussion collegiate return-to-learn protocol using a modified Delphi approach. Presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA. Abstract published in: J Athl Train. 2022;57(suppl 6):S110.

Meyer JT [student], **Baer RW**. Does macrophage stimulation by CCL5 alter melanoma migratory behavior? Poster presented at: Experimental Biology 2022; April 2-5, 2022; Philadelphia, PA. Abstract published in: FASEB J. 2022;36(suppl 1):R3446.

Milius C [student], Jepson L [student], Maclaskey D [student], Pazdernik V, **Kondrashova T**. Development of hands-on skills in diagnostics of lung diseases using ultrasonography while reducing medical student contact with each other during the pandemic. Poster presented virtually at: International Association of Medical Science Educators 2022 Annual Meeting; June 4-7, 2022; Denver, CO.

Park JH. Class II correction with maxillary distalization and TADs. Presented at: 2022 American Association of Orthodontists' Annual Session; May 21-24, 2022; Miami Beach, FL.

Patel S, Spolarich A, Perry M. Fluoride compliance and caries incidence among patients undergoing radiation therapy. Presented virtually at: 100th General Session of the International Association for Dental Research/5th Meeting of the Asia Pacific Region; June 20-25, 2022.

Perry M, Gohlke E, Spolarich A. Alpha and omega of teaching special care. Presented at: Special Care Dentistry Association 34th Annual Meeting; May 5-7, 2022; Columbus, OH.

Philpot NJ, Cavallario JM, Strout NR, Walker SE [adjunct], **Welch Bacon CE**. The meaning and importance of contemporary expertise in athletic training. Poster presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA. Abstract published in: J Athl Train. 2022;57(suppl 6):S283.

Picha KJ, Welch Bacon CE, Lewis JH, Snyder Valier AR. Athletic trainers' observations of social determinants of health in the secondary school setting. Poster presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA. Abstract published in: J Athl Train. 2022;57(suppl 6):S188.

Presentations and abstracts, continued

Pike Lacy AM, Strout NR [alum], Cavallario JM, Philpot NJ, Walker SE [adjunct], **Welch Bacon CE**. Athletic trainers' perceived barriers towards developing and maintaining an area of contemporary expertise. Poster presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA. Abstract published in: *J Athl Train.* 2022;57(suppl 6):S278.

Reagan VC, Lammers CL, Hollingworth AT, Decoster LC, **Valovich McLeod TC**, **Welch Bacon CE**, Beltz EM. Development and validation of a novel concussion documentation audit tool. Poster presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA. Abstract published in: *J Athl Train.* 2022;57(suppl 6):S172.

Siddiqui MR, Machireddy N, Faridi HM, Shahid M, **Akhtar S**, Shanley T. Endothelial PP2AC prevents endotoxemia-induced acute lung injury by suppressing STAT3 activity. Poster presented at: Experimental Biology 2022; April 2-5, 2022; Philadelphia, PA. Abstract published in: *FASEB J.* 2022;36(suppl 1):R2448.

Simmons A, **Harris N**. Presence of a Madelung Deformity in a female collegiate volleyball player. Poster presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA. Abstract published in: *J Athl Train.* 2022;57(suppl 6):S244.

Skinner AG [student], Tucker C [student], Fatima A, Siddiqui MR, **Singh V**, **Akhtar S**. Effects of inulin on intestinal barrier function in a Caco-2 cell monolayer model of intestinal barrier. Poster presented at: Digestive Disease Week Meeting 2022; May 21-24, 2022; San Diego, CA. *2022 American Gastroenterological Association Research Foundation Abstract award and Poster of Distinction award.*

Spolarich AE. Who are the long-haulers? Presented at: American Dental Hygienists Association 2022 Annual Conference; June 24-26, 2022; Louisville, KY.

Spolarich AE. Working together: cardiologist and dental hygienist address antibiotic prophylaxis for heart disease. Presented at: American Dental Hygienists Association 2022 Annual Conference; June 24-26, 2022; Louisville, KY.

Starks Z, **Degenhardt B**. Examiners' perception does not agree with objective stiffness measures during the ASIS compression test. Poster presented virtually at: International Consortium on Manual Therapies 2022 Conference; May 4-June 3, 2022.

Swogger SE, **Lipke L**. Building an interprofessional search strategy for manual therapy literature: where's the vocabulary. Poster presented virtually at: International Consortium on Manual Therapies 2022 Conference; May 4-June 3, 2022.

Tipton RK [student], Humphrey CM, Scales DM, Ostrowski D, **Ostrowski TD**. nTS Glutamate signaling in the chemoreflex axis of an Alzheimer's disease rat model. Poster presented at: Experimental Biology 2022; April 2-5, 2022; Philadelphia, PA. Abstract published in: *FASEB J.* 2022;36(suppl 1):R2160.

Valovich McLeod TC, **Snyder Valier AR**. Mapping adolescent athletes' perceptions of activity limitations following sport-related concussion to the International Classification of Functioning, Disability, and Health. Presented at: 73rd National Athletic Trainers' Association Clinical Symposia; June 28-July 1, 2022; Philadelphia, PA. Abstract published in: *J Athl Train.* 2022;57(suppl 6):S109.

Vargo RJ. Oral lichenoid contact hypersensitivity reactions to cinnamon: a report of three cases. Presented at: 2022 American Academy of Oral Medicine Annual Conference; May 3-7, 2022; Memphis, TN.

Vida Datario A [student], **Starks Z**, **Degenhardt B**. Reducing diagnostic palpatory force variability after 8-weeks of training with objective feedback. Poster presented virtually at: International Consortium on Manual Therapies 2022 Conference; May 4-June 3, 2022.

Presentations and abstracts, continued

Weslowski MP, **Johnson JC**, **Degenhardt BF**. Osteopathic manipulative treatment techniques nomenclature: is there a need to improve consistency. Poster presented virtually at: International Consortium on Manual Therapies 2022 Conference; May 4-June 3, 2022.

Wolf R, Saffer A, Bonsall A. Experimental education in advocacy for occupational therapy practitioners and students. Presented at: American Occupational Therapy Association Inspire 2022 Annual Conference; March 31-April 3, 2022; San Antonio, TX.

Yesudas R, Ryle W [alum]. Worms with armor: tegumental adaptations of stomach fluke, *Dinurus* sp. (Trematoda: Hemiuridae)—ultrastructural characteristics. Poster presented at: Experimental Biology 2022; April 2-5, 2022; Philadelphia, PA. Abstract published in: FASEB J. 2022;36(suppl 1):L7658.

Zegarra-Parodi R [research affiliate]. Aspectos psicosociales, culturales y espirituales y en la experiencia de dolor musculoesquelético: una herencia de la medicina tradicional o un enfoque basado en la evidencia? Presented at: XII Congreso de la Fundación Europea de MTCI y II Congreso de la Fundación Terapias Naturales; June 3-5, 2022; Peñíscola, Spain.

Sorry we missed you last time

Dolence S, **Tshuma L**. Chronic pain and Buena Vida! (good life!). Presented virtually at: 2022 Society of Teachers of Family Medicine Conference on Medical Student Education; January 26-28, 2022.

Khan A [student], Tidman MM [adjunct]. [Causes of medication error in nursing](#). J Med Res Health Sci. 2022;5(1):1753-1764.

Kook YA, Ku JH, **Park JH**, Park CO, Kim Y. [Treatment of transposed canines and first premolars using miniscrew anchorage](#). J Clin Orthod. 2022;56(3):167-174.

Manes TJ [student], Mohiuddin Z, Bage M. [Pulmonary embolism in transit across a patent foramen ovale](#). Cureus. 2022;14(3):e23026.

Tidman M [adjunct]. [Effects of a ketogenic diet on symptoms, biomarkers, depression, and anxiety in Parkinson's disease: a case study](#). Cureus. 2022;14(3):e23684.

Tshuma L, **Wagner R**. Integration pathways for providers: preceptor development redesigned! Presented virtually at: 2022 Society of Teachers of Family Medicine Conference on Medical Student Education; January 26-28, 2022.

Tshuma L, **Wagner R**, Ruddy M, Dolence S, **Sheridan V**. Community health center-based interprofessional training and practice: developing master adaptive learners through integrated care quality improvement. Presented at: Beyond Flexner 2022 Conference; March 28-30, 2022; Phoenix, AZ.

VanSickle C, Grondel P [student]. Female pelvic dimensions at different ages in parous and nulliparous individuals. Presented at: 91st Annual Meeting of the American Association of Biological Anthropologists; March 23-26, 2022; Denver, CO. Abstract published in: Am J Biol Anthropol. 2022;177(suppl 73):189.

Fourth Quarter reports research activity for April-June 2022. Issues of *ATSU Research* are available on ATSU News, the University's e-news portal, under [ATSU Research News](#).