

ATSU Research

A newsletter produced by the Department of Research Support

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

*“Science is not a collection of facts but a way of interrogating the world.”
~Sharon Begley*

Publications

Abdulkarim HH, Habet B, Ahmadi AG, Wang MYF, Rosales ER, Miley DD. [Digital analysis of dentogingival factors influencing the gingival margin position in the esthetic zone.](#) J Esthet Restor Dent. 2025;37(6):1474-1482.

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Biju N [student], Backer C. [Hidden preeclampsia leading to placental abruption and disseminated intravascular coagulation.](#) Cureus. 2025;17(5):e83469.

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Publications, continued

Cantarella D [visiting scholar], **Park JH**, Karanxha L, Mancini EG, Fabbro MD, Caprioglio A, et al. [Maxillary skeletal expander with 6 miniscrews and tadlock: a case report](#). AJO DO Clin Companion. 2025;5(3):260-269.

Carter SKR [student], Tipton RK [student], Forman CM [student], Mosher AP, **Ostrowski D**, **Ostrowski TD**. [Glutamate stress in the caudal nucleus tractus solitarii \(nTS\): impact on respiratory function and synaptic signaling in an Alzheimer's disease model](#). Exp Neurol. 2025;387:115190.

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DePalma S [adjunct]. [Hypertension: a primer on primary and secondary hypertension](#). Physician Assist Clin. 2025;10(2):201-212.

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Solano L [adjunct]. [Prostate cancer](#). JAAPA. 2025;38(6):45-46.

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Walker CW. [Infectious and inflammatory disorders of the heart: myocarditis, endocarditis, and pericardial disease](#). Physician Assist Clin. 2025;10(2):343-357.

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Yeargin SW, Scarneo-Miller SE, Radzak KN, Hosokawa Y, Bazett-Jones DM, **Welch Bacon CE**, et al. [Writing National Athletic Trainers' Association position statements: new methodology for systematic evidence gathering and recommendation building](#). J Athl Train. 2025;60(6):475-479.

Presentations and abstracts

Allgood L, Jaqua B, Young V, Marble A, Maddix B. TaylorMade: a structured program to support historically underrepresented osteopathic students. Presented at: American Association of Colleges of Osteopathic Medicine 2025 Annual Conference; April 9-11, 2025; Arlington, TX.

Ames K [student], **Martinez-Nieto L, Barragan B.** Visual bias in accent perception: the influence of visual ethnic cues. Poster presented at: 15th International Symposium on Bilingualism; June 9-13, 2025; San Sebastian, Spain.

Anderson EE. Stress, resilience and coping in Black male osteopathic medical students: insights for UME. Poster presented at: American Association of Colleges of Osteopathic Medicine 2025 Annual Conference; April 9-11, 2025; Arlington, TX.

Andrews L, Glenn A, Gross B, Buban R, Carpenter H, De la Montaigne A, et al. Strengthening occupational therapy education through state association and consortium partnerships. Poster presented at: American Occupational Therapy Association 2025 Annual Conference; April 3-5, 2025; Philadelphia, PA.

Barragan B. The motor face of bilingual word recognition. Presented at: 15th International Symposium on Bilingualism; June 9-13, 2025; San Sebastian, Spain.

Bowman TG, **Valovich McLeod TC**, Hunt TN, **Picha KJ**, Newman T, Kelshaw PM. A qualitative study of athletic trainers' experiences with the social determinants of health in the continuum of care. Presented at: American College of Sports Medicine 2025 Annual Meeting; May 27-30, 2025; Atlanta, GA.

Chang F, Greenberger M, Zanetti C, **Weaver C**, Keller C, Lin M, ... **Misra S**, et al. AI and digital health integration for excellence in teaching and scholarship. Presented at: American Association of Colleges of Osteopathic Medicine 2025 Annual Conference; April 9-11, 2025; Arlington, TX.

Choe MC, Bunt S, Feddermann N, Frémont P, Hashida K, Hunzinger KJ, ... **Valovich McLeod TC**, et al. Development of educational resources to support knowledge transfer related to the Amsterdam consensus. Poster presented at: 2025 Concussion in Sport Group Symposium; April 30-May 1, 2025; Milwaukee, WI. Abstract published in: BMJ Open Sport Exerc Med. 2025;11(suppl 3).

Dahl-Popolizio S, Radziak J, Story A, Andrews L, Lobato de Faria J, Hartman T. The impact of a lower extremity robotic exoskeleton on an in-home functional independence. Presented at: American Occupational Therapy Association 2025 Annual Conference; April 3-5, 2025; Philadelphia, PA.

Donjoian IM [student], **Pisano MD, Stuart MK.** Neutrophil chemotaxins produced by *Trichomonas tenax*. Poster presented at: American Society for Microbiology (ASM) Microbe 2025; June 19-23, 2025; Los Angeles, CA.

Duong ML White B, Gohlke E, Spolarich AE, Morales K. Compassion workshop as an emotional learning tool. Presented at: 23rd Annual Conference of the American Academy of Developmental Medicine and Dentistry; June 5-8, 2025; Scottsdale, AZ.

Fulwider B, Delbridge M, Story A. Integrating perspectives: a mixed-methods study on interprofessional education experiences among speech-language pathology and occupational therapy graduate students. Presented at: American Occupational Therapy Association 2025 Annual Conference; April 3-5, 2025; Philadelphia, PA.

Glenn A, Andrews L. Impact of an IPE on DO students' perception of the role of OT in gerontology. Poster presented at: American Occupational Therapy Association 2025 Annual Conference; April 3-5, 2025; Philadelphia, PA.

Hashemi S [student], **Barragan B.** Two languages in one mind: bilingual benefits for aging brains. Poster presented at: Arizona Speech-Language-Hearing Association 2025 Convention; April 11-12, 2025; Tempe, AZ.

Presentations and abstracts, continued

Hines T. Inclusive classrooms in action: strategies for equity and engagement. Presented at: 26th Annual Institute for Human Development Evidence for Success Disability Conference; June 23-24, 2025; Chandler, AZ.

Hines T. Innovative approaches to client-centered therapy for speech sound disorders. Presented at: Arizona Speech-Language-Hearing Association 2025 Convention; April 11-12, 2025; Tempe, AZ.

Hoerner C [student], **Barragan B**, Mendez L, Simon-Cerejido G. The bimodal bilingual advantage. Poster presented at: Arizona Speech-Language-Hearing Association 2025 Convention; April 11-12, 2025; Tempe, AZ. Presented at: National Black Association for Speech-Language and Hearing 47th Annual Convention; April 23-26, 2025; Long Beach, CA.

Honrado J [alum]. Joint hypermobility risk reduction strategies. Presented at: 76th National Athletic Trainers' Association Clinical Symposia; June 24-27, 2025; Orlando, FL.

Hortz B [adjunct], **Falsone S.** Dry needling for soft tissue injury management: current issues and concerns. Presented at: 76th National Athletic Trainers' Association Clinical Symposia; June 24-27, 2025; Orlando, FL.

Ingram BM, Oyesanya TO, **Picha KJ**, Kerr ZY, DeFreese JD, Register-Mihalik JK. Factors influencing concussion disclosure among emerging adults. Poster presented at: 76th National Athletic Trainers' Association Clinical Symposia; June 24-27, 2025; Orlando, FL. Abstract published in: J Athl Train. 2025;60(suppl 6):S211.

Jaqua B, Nielsen C [alum], **Marble A.** Yoga and mindfulness activities for stress reduction and mindful self-care in OME: a pilot project. Presented at: American Association of Colleges of Osteopathic Medicine 2025 Annual Conference; April 9-11, 2025; Arlington, TX.

Kikkawa A, Simon-Cerejido G, Mendez L, **Barragan B.** The role of code-switching and language entropy on semantic accuracy in heritage speakers. Presented at: 15th International Symposium on Bilingualism; June 9-13, 2025; San Sebastian, Spain.

Kwon S, Marshall AN [alum], **Huxel Bliven KC**, Graves JA, **Snyder Valier AR.** Characteristics of sports-related injuries among high school baseball players: a report from the Athletic Training Practice-Based Research Network. Poster presented at: 76th National Athletic Trainers' Association Clinical Symposia; June 24-27, 2025; Orlando, FL. Abstract published in: J Athl Train. 2025;60(suppl 6):S227.

Makin IR, Veisheh H [student], Abrams J, Jabs H, Lin O, Gettleman B, **Spolarich A.** Apical patency-dependent flow characterization with a computer-controlled microflow system. Poster presented at: 103rd International Association for Dental, Oral, and Craniofacial Research General Session and Pan European Regional Congress; June 25-28, 2025; Barcelona, Spain.

McKenney MT, **Welch Bacon CE.** Athletic training educators' preparation for simulation development and implementation. Presented at: 76th National Athletic Trainers' Association Clinical Symposia; June 24-27, 2025; Orlando, FL. Abstract published in: J Athl Train. 2025;60(suppl 6):S99.

McNatt MK, Presley M [alum], Probst JC. Disenfranchised and unheard: political determinants of indigenous health. Presented at: National Rural Health Association 2025 Rural Health Access Conference; May 19-20, 2025; Atlanta, GA.

Moscrip A [student], Kelcho K [student], **Barragan B.** Effect of tongue and lip restriction on bilingual auditory processing. Poster presented at: Arizona Speech-Language-Hearing Association 2025 Convention; April 11-12, 2025; Tempe, AZ.

Presentations and abstracts, continued

Nottingham SL, Cavallario JM, Kasamatsu TM, **Welch Bacon CE**. Athletic trainers' experiences completing guided and mentored quality improvement projects to improve clinical documentation. Presented at: 76th National Athletic Trainers' Association Clinical Symposia; June 24-27, 2025; Orlando, FL. Abstract published in: J Athl Train. 2025;60(suppl 6):S47.

Park JH. 3D Correction with TADs and aligners in contemporary orthodontics. Presented at: Oklahoma Orthodontic Society 2025 Annual Meeting; April 4, 2025; Oklahoma City, OK.

Park JH. 3D Tooth movement with TADs, clear aligners, and surgery. Presented at: 2025 Surgidontics Conference; May 1-3, 2025; Austin, TX.

Park JH. ABO update. Presented at: American Association of Orthodontists 2025 Annual Session; April 25-27, 2025; Philadelphia, PA.

Park JH. Mandibular distalization vs maxillary protraction in Class III correction with TADs (part 2). Presented at: American Association of Orthodontists 2025 Annual Session; April 25-27, 2025; Philadelphia, PA.

Patel S. Trigger point injection as an adjunctive therapy for the management of myofascial pain in patients treated for head and neck cancers: a case series. Poster presented at: 2025 Joint Meeting of the American Academy of Oral Medicine and the European Association of Oral Medicine; May 14-17, 2025; Las Vegas, NV.

Picha KJ, Bowman TG, **Valovich McLeod TC**, Newman TJ, **Bay RC**, Hunt T, et al. Observations of social determinants of health during concussion care: insights from athletic trainers. Presented at: 76th National Athletic Trainers' Association Clinical Symposia; June 24-27, 2025; Orlando, FL. Abstract published in: J Athl Train. 2025;60(suppl 6):S72.

Picha KJ, **Welch Bacon CE**, **Bay RC**, **Snyder Valier AR**. Athletic trainers' needs and access to social determinants of health resources in the secondary school setting. Presented at: 76th National Athletic Trainers' Association Clinical Symposia; June 24-27, 2025; Orlando, FL. Abstract published in: J Athl Train. 2025;60(suppl 6):S26.

Pike Lacy AM [alum], Cavallario JM, Wright SM, **Welch Bacon CE**. Athletic trainers' perspectives on barriers to and facilitators of unlearning in clinical practice. Presented at: 76th National Athletic Trainers' Association Clinical Symposia; June 24-27, 2025; Orlando, FL. Abstract published in: J Athl Train. 2025;60(suppl 6):S53.

Rojas-Rueda S, **Hernandez AI**, Abuhammoud S, Jurado CA, Fu CC, Lawson N. Fracture resistance of chairside CAD/CAM lithium disilicate partial and full coverage crowns and veneers for maxillary canines. Presented at: 59th Annual Carl O. Boucher Prosthodontic Conference; April 25, 2025; Dublin, OH. Presented at: 103rd International Association for Dental, Oral, and Craniofacial Research General Session and Pan European Regional Congress; June 25-28, 2025; Barcelona, Spain.

Root H [alum], DiStefano L. Leveraging mobile applications to design and implement personalized injury prevention programs. Presented at: 76th National Athletic Trainers' Association Clinical Symposia; June 24-27, 2025; Orlando, FL.

Schneider K, Tomchuk D [alum]. Cracking the code: a clinician's guide to using artificial intelligence in athletic training. Presented at: 76th National Athletic Trainers' Association Clinical Symposia; June 24-27, 2025; Orlando, FL.

Sexton PS, Tvito L. Building bridges: cultivating meaningful connections. Presented at: American Association of Colleges of Osteopathic Medicine 2025 Annual Conference; April 9-11, 2025; Arlington, TX.

Presentations and abstracts, continued

Smart M [alum], Dennison A [alum]. Moving and shifting: techniques to realign. Presented at: 76th National Athletic Trainers' Association Clinical Symposia; June 24-27, 2025; Orlando, FL.

Smith D, Bhargava N [student], Ouamara VA [student], LaFentres E [student], Acharya S [student], Soltani L. Impact of cost-sharing on self-measured blood pressure (SMBP) patient cost and prescription abandonment for home BP monitor in a large FQHC. Poster presented at: El Rio Health 9th Annual Poster Fair; May 6, 2025; Tucson, AZ. *Relevance Award*

Snyder Valier A. Quality improvement: solutions for practice problems. Presented at: 76th National Athletic Trainers' Association Clinical Symposia; June 24-27, 2025; Orlando, FL.

Snyder Valier AR, Lam KC. Using patient-reported outcomes instruments to drive high-quality healthcare. Presented at: AT100 Conference; April 25, 2025; Charlotte, NC.

Spolarich AE, Gohlke E, Duong ML, White B, Moralez K. A social emotional tool for special care dentistry. Presented at: 23rd Annual Conference of the American Academy of Developmental Medicine and Dentistry; June 5-8, 2025; Scottsdale, AZ.

Terry R, Long AA, **LaBaere RJ II**, What's next for osteopathic recognition: follow up on a national landmark study. Presented at: American Association of Colleges of Osteopathic Medicine 2025 Annual Conference; April 9-11, 2025; Arlington, TX.

Turner S, **Quezada C**, Powell L, Reeder C, Prinster S, Zarandy J, et al. SLDP: are matriculants to osteopathic medical school less prepared for pre-clinical academic success? Presented at: American Association of Colleges of Osteopathic Medicine 2025 Annual Conference; April 9-11, 2025; Arlington, TX.

Valovich McLeod T. Are we heeding the warnings on youth sport specialization? Presented at: 76th National Athletic Trainers' Association Clinical Symposia; June 24-27, 2025; Orlando, FL.

Valovich McLeod TC, Snyder Valier AR, Lam KC, Bay RC. The Concussion Quality of Life Scale-Youth validates and complements the Post-Concussion Symptom Inventory on days 3 and 10 post-concussion. Poster presented at: 2025 Concussion in Sport Group Symposium; April 30-May 1, 2025; Milwaukee, WI. Abstract published in: *BMJ Open Sport Exerc Med*. 2025;11(suppl 3).

Valovich McLeod TC, Snyder Valier AR, Lam KC, Bay RC. The relationship between acute concussion symptoms and quality of life in adolescent patients. Poster presented at: 76th National Athletic Trainers' Association Clinical Symposia; June 24-27, 2025; Orlando, FL. Abstract published in: *J Athl Train*. 2025;60(suppl 6):S215.

Walker C. Behind the blackout: mastering the diagnosis of syncope. Presented at: American Academy of Physician Associates 2025 Annual Conference; May 16-20, 2025; Denver, CO.

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Sorry we missed you last time

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Fourth Quarter FY2025 reports research activity for ATSU faculty, students, and staff for April-June 2025. Issues of *ATSU Research* are available on ATSU News, the University's e-news portal, under [ATSU Research News](#). Visit the [Department of Research Support](#) portal to learn more about the resources we provide for ATSU faculty researchers.