

ATSU Research

A newsletter produced by the Department of Research Support

Image (bovine lens epithelial cells) courtesy of Dr. Patricia Sexton

*“Scientists have become the bearers of the torch of discovery
in our quest for knowledge.” ~Stephen Hawking*

Publications

- Adkins B [alum], **Bernstein J.** [Perceived effectiveness of student assessment methods in occupational therapy education.](#) J Occup Ther Educ. 2024;8(3):3.
- Aguillera M, Miller L [student], Sharma S, Lemus VV, Pittman M, Wallach T. [Don't forget to turn around: a case of hematochezia and tenesmus driven by anorectal inflammatory cloacogenic polyp.](#) JPGN Rep. 2024;5(3):357-359.
- Aiman S, Ali Y, Malik A, Alkholief M, Ahmad A, **Akhtar S**, Ali S, Khan A, Li C, Shams S. [Immunoinformatic-guided novel mRNA vaccine designing to elicit immunogenic responses against the endemic Monkeypox virus.](#) J Biomol Struct Dyn. 2024;42(12):6292-6306.
- Alabdulkader S, Alzaben AS, Almoayad F, Mortada EM, Benajiba N, Aboul-Enein BH, Dodge E, **Bernstein J**, Bawazeer N. [Evaluating attitudes toward soft drink consumption among adults in Saudi Arabia: five years after selective taxation implementation.](#) Prev Med Rep. 2024;44:102808.
- Alqutaibi AY, Hamadallah HH, **Rahhal MM**, Ibrahim WI. [Modified two-step impressions via the incorporation of venting holes: a technical report.](#) Cureus. 2024;16(7):e64642.
- Barbarek SC, Shah R, Paul S, Alvarado G, Appala K, Phillips C [student], Henderson EC, Strandquist ET, Pokorny A, **Singh VK**, Gatto C, Dahl JU, Hines KM, Wilkinson BJ. [Lipidomics of homeoviscous adaptation to low temperatures in *Staphylococcus aureus* utilizing exogenous straight-chain unsaturated fatty acids.](#) J Bacteriol. 2024;206(7):e0018724.
- Bernard KS, **Derr JN**, McMoon M [adjunct], Moore Gottschalk M [adjunct], Moore SJ [adjunct], Lipke L, Hoover EB. [The contribution of postprofessional doctorates to the career development of healthcare workers: a scoping review.](#) J Allied Health. 2024;53(3):e191-e200.
- Brooks L, Reinert JP [adjunct]. [Phenobarbital dosing for the treatment of alcohol withdrawal syndrome: a review of the literature.](#) J Pharm Technol. 2024;40(4):186-193.

Publications, continued

Caballero C, Rodriguez F, Cortellari GC, Scarano A, Prados-Frutos JC, De Aza PN, **Fernandes GVO**, Gehrke SA. [Mechanical behavior of five different Morse taper implants and abutments with different conical internal connections and angles: an in vitro experimental study](#). J Funct Biomater. 2024;15(7):177.

Campione E, **Doublestein D**. [2023 ACS–LANA lymphedema summit forward momentum: future steps in lymphedema management](#). Med Oncol. 2024;41:230.

Catarino M, Castro F, Macedo JP, Lopes O, Pereira J, Lopes P, **Fernandes GVO**. [Mechanisms of degradation of collagen or gelatin materials \(hemostatic sponges\) in oral surgery: a systematic review](#). Surgeries. 2024;5(3):532-548.

Cavallario JM, Detwiler KR [alum], Jones LE, White IB, **Welch Bacon CE**. [Athletic trainers' experiences with and perceptions of salary negotiation decision-making during the hiring process](#). J Athl Train. 2024;59(8):868-883.

Cunningham S [alum], Penning J [alum], Barboza S [alum], Hansen B [alum], Tonks T [alum], Varnell K [alum], Zhu A [student], Lobato de Faria J, **Bright HS**, **Dahl-Popolizio S**, **Wolf RL**. [Breastfeeding in US working mothers: a systematic review](#). Work. 2024;78(4):851-871.

Dahl-Popolizio S, Sauber TM, Ogaard M, Mookadam M, Cambala SV, Trembath FE. [Primary care occupational therapy: diagnoses, outcomes, reimbursement, and team satisfaction](#). Open J Occup Ther. 2024;12(3):12.

Eiseman M [student]. [Febrile seizures: a clinical review and focus on caregiver education](#). JAAPA. 2024;37(9):37-41.

Eisenberg DM, Cole A, Maile EJ, Salt M, Armstrong E, Leib EB, ... **Misra S**, et al. [Proposed nutrition competencies for medical students and physician trainees: a consensus statement](#). JAMA Netw Open. 2024;7(9):e2435425.

Ferreira LG, Silva FBM, Scarano A, Gehrke SA, **Fernandes GVO**, Resende RFB. [Zekrya bur fracture during extraction: how can this type of complication be avoided? A literature review](#). Ann Stomatol. 2024;2(2):78-82.

Fujita E, Takeshima N, Sato H, Kohama T, Kusunoki M, Oba Y, **Brechue WF**. [Test-retest reliability of movement displacement during a 20-s stepping-in-place test in community-dwelling older adults with and without supportive care](#). Gerontology. 2024;70(9):970-977.

Garrett LR, Harveson AT, Ayars C [adjunct]. [Shift schedule effects on firefighter health and fitness](#). Work. 2024;78(4):1115-1122.

Huamann-Morillo SR, Vander Linden KL, Palmieri PA [adjunct]. [Metaphors describing the gendered organization in the career advancement of women: an integrative review](#). Adm Sci. 2024;14(9):196.

Johnson JC, Smith CK, **Degenhardt BF**. [Hassles during the first year of medical school: can a student wellness program make a difference?](#) OBM Integr Complement Med. 2024;9(3):057.

Publications, continued

Kang SG, Lim SH, Kim HM, Park SJ, Kim EJ, **Park JH**. [Uprighting a mesially impacted mandibular second molar with scissor bite using simple tubes](#). J World Fed Orthod. 2024;13(4):189-196.

Kasamatsu TM, Nottingham SL, **Bay RC**, **Welch Bacon CE**. [Improving athletic trainers' knowledge of clinical documentation through novel educational interventions: a randomized controlled trial](#). J Athl Train. 2024;59(9):969-978.

Khan N, Kakakhel S, Malik A, Nigar K, **Akhtar S**, Khan AA, Khan A. [Genetic substructure and host-specific natural selection trend across vaccine-candidate ORF-2 capsid protein of hepatitis-E virus](#). J Viral Hepat. 2024;31(9):524-534.

Larkin A [alum], Kim JS, Kim N, Baek SH, Yamada S, Park K, Tai K, Yanagi Y, **Park JH**. [Accuracy of artificial intelligence-assisted growth prediction in skeletal Class I preadolescent patients using serial lateral cephalograms for a 2-year growth interval](#). Orthod Craniofac Res. 2024;27(4):535-543.

Lee YJ, **Park JH**, Chae JM, Chang NY. [Comparison of the shear bond strength between a self-etching ceramic primer and conventional bonding systems used in bonding metal brackets to a ceramic surface](#). Clin J Korean Assoc Orthod. 2024;14(2):81-89.

Liaw JLL, **Park JH**, Wang SH, Lin SJ, Liao DH, Chang CC. [Interdisciplinary management of orthodontic-dental implant-restorative patients](#). Br Dent J. 2024;237(5):379-388.

Liza, Hussain G, Malik A, **Akhtar S**, Anwar H. [Artemisia vulgaris extract as a novel therapeutic approach for reversing diabetic cardiomyopathy in a rat model](#). Pharmaceuticals (Basel). 2024;17(8):1046.

Manton C, **Conley Q**, Cleland JA, Puentedura EJ. [The effectiveness of instruction on lumbar spine thrust joint manipulation task performance](#). J Phys Ther Educ. 2024;38(3):212-220.

Martins SCR, Marques MC, Vidal MG, Tolentino PHM, Dinelli RG, **Fernandes GVO**, Shibli JA. [Is the facial bone wall critical to achieving esthetic outcomes in immediate implant placement with immediate restoration? A systematic review](#). Adv Clin Exp Med. 2024;33(9):979-997.

Maurotto M, Costa LG, Manso MC, Mosley GA [student], Fernandes JCH, **Fernandes GVO**, Castro F. [Correlation between periodontitis and gastritis induced by Helicobacter pylori: a comprehensive review](#). Microorganisms. 2024;12(8):1579.

Miller L [student], Cho HG, Banayan C, Lemus VV, Sharma A, Wallach T. [Achalasia in Klinefelter syndrome: a suspected pediatric case as well as prevalence analysis suggesting increased risk in this population](#). JPGN Rep. 2024;5(3):374-376.

Monterroso PS, Knight K [adjunct], Roesler MA, Sample JM, Poynter JN. [Remote field application of digital technology for hearing assessments in a cohort of pediatric germ cell tumor survivors](#). Cancer Epidemiol Biomarkers Prev. 2024;33(9):1177-1184.

Morena D, Leitão-Almeida B, Pereira M, Resende R, Fernandes JCH, **Fernandes GVO**, Borges T. [Comparative clinical behavior of zirconia versus titanium dental implants: a systematic review and meta-analysis of randomized controlled trials](#). J Clin Med. 2024;13(15):4488.

Publications, continued

- Muller R, Bilich L, Jones M. [Impact of an oral health education program on the oral health literacy of refugees](#). J Immigr Minor Health. 2024;26(4):699-710.
- Norman J [student], Soliman M. [Unraveling complexity: acute intermittent porphyria complicated by rhabdomyolysis and acute pancreatitis](#). Cureus. 2024;16(7):e65826.
- Nottingham SL, Kasamatsu TM, Cavallario JM, **Welch Bacon CE**. [Athletic trainers' perceptions of and experiences with professional development approaches for enhancing clinical documentation](#). J Athl Train. 2024;59(8):857-867.
- Owens J, Aboul-Enein BH, **Bernstein J**, Dodge E, Kelly PJ. [Reducing violence against women and girls in the Arab League: a systematic review of preventive interventions](#). Trauma Violence Abuse. 2024;25(3):2219-2233.
- Parker S [student], **Cramberg M**, Scott A [student], Sopko S [student], Swords A [student], Taylor E [student], **Young BA**. [On the spinal venous sinus of *Alligator mississippiensis*](#). Anat Rec (Hoboken). 2024;307(9):2953-2965.
- Probst JC, Yell N, Benavidez GA, **McNatt MK**, Browne T, Herbert L, Zahnd WE, Crouch E. [Dialysis more available than patient education in counties with high diabetes prevalence](#). Prev Chronic Dis. 2024;21:240052.
- Shafiq M, Ahmed I, Saeed M, Malik A, Fatima S, **Akhtar S**, Khurshid M, Hyder MZ. [Predominance of bla_{NDM}- and bla_{IMP}-harboring *Escherichia coli* belonging to clonal complexes 131 and 23 in major university hospital](#). Medicina (Kaunas). 2024;60(9):1528.
- Simon T, Walczyk E, DePalma SM [adjunct], Walker CS. [The importance, benefits, and contributions of PAs in healthcare leadership](#). JAAPA. 2024;37(9):42-44.
- Smith RJ [adjunct], **Dishman L**, **Fick JW**, Thomas KM [adjunct]. [Investigating the perceived impact of surgeons' burnout on surgical physician associates' wellness in United States ambulatory surgery centers](#). Patient Exp J. 2024;11(2):44-55.
- Stouder A, Ayars CL [adjunct]. [Burnout, personal, and occupational factors as predictors of physician assistant faculty intent to leave after the COVID-19 pandemic](#). J Physician Assist Educ. 2024;35(3):228-236.
- Talukdar J, Malik A, Kataki K, Choudhury BN, Baruah MN, Bhattacharyya M, ... **Akhtar S**, et al. [Expression of interleukin-8, interleukin-12 and interleukin-13 in esophageal squamous cell carcinoma: biomarker potentiality and prognostic significance](#). J Gastrointest Cancer. 2024;55(3):1239-1255.
- Tidman MM [adjunct], Reid White D [alum], White TA [alum]. [Impact of a keto diet on symptoms of Parkinson's disease, biomarkers, depression, anxiety and quality of life: a longitudinal study](#). Neurodegener Dis Manag. 2024;14(3-4):97-110.
- Traylor DO [adjunct], **Anderson E**, Allenbrand CK, Kaur T, Gill H, Singh H. [The prevalence of sexual misconduct in US medical education: examining the intersecting vulnerabilities of gender and sexual orientation](#). Cureus. 2024;16(7):e63681.

Publications, continued

Traylor DO [adjunct], Cameron W, Clark B, **Anderson E**, Henderson R [adjunct], Clark L. [Impact of climate change on human lactation: biological, socioeconomic, and public health implications](#). F1000Res. 2024;13:993.

Traylor DO [adjunct], Enriquez M, Thompson-Robinson M, Yu M, Bloom T, Bullock L. [Barriers and facilitators that influence HIV pre-exposure prophylaxis \(PrEP\)-prescribing behaviors among primary care providers in the southern United States](#). Cureus. 2024;16(8):e66868.

Walker CW. [What is causing this patient's diffuse rash?](#) JAAPA. 2024;37(7):47-49.

Weber Rawlins ML [alum], Johnson RS, Schmidt JD, Lynall RC, O'Brien KH, **Welch Bacon CE**. [University educators' perceptions of academic adjustments following a concussion for student-athletes and non-student-athletes](#). J Am Coll Health. 2024;72(7):2220-2228.

Welch Bacon CE, Cavallario JM, Walker SE, **Bay RC**, Van Lunen BL. [Athletic training students' use of evidence-based practice professional behaviors during clinical experiences: a report from the Association for Athletic Training Education Research Network](#). Int J Athl Ther Train. 2024;29(5):285-290.

Zandinejad A, Zadeh RS, **Nasiry Khanlar L**, Barmak AB, Revilla-León M. [Fracture resistance, marginal and internal adaptation of innovative 3D-printed graded structure crown using a 3D jet printing technology](#). J Prosthodont. 2024;33(7):684-690.

Presentations and abstracts

Alarcon A [student], Jensen C [student], Sangalang E [student], Christensen S [student], Zamanian P [student], Teo R [student], Lewis W [student], Sayegh J [student], Nicholls M [student], **Sivakoff M, Meek B, Appikatla S, Lewis JH**. Fostering wellness: exploring food insecurity and healthy food accessibility in the Adelante Healthcare patient population. Presented at: 2024 Community Health Institute; August 24-26, 2024; Atlanta, GA.

Al-Daouk D [student], Jimenez A [student], Arellano A [student], Chellman C [student], Kourouma P [student], Lehrburger G [student], Lobel S [student], Putris A [student], Satz R [student], **Appikatla S, Lewis JH**. Trauma informed care (TIC) within El Rio's radiology department. Poster presented at: 2024 Community Health Institute; August 24-26, 2024; Atlanta, GA.

Allinson R, Silva H. Building bridges: developing and implementing a sustainable dental outreach program for veterans and underserved populations in Dexter, MO. Poster presented at: 2024 Community Health Institute; August 24-26, 2024; Atlanta, GA.

Anton LM [student], Koenig E [student], Thompson S [student], Ozbeki H [student], Malone L [student], Wu C [student], **Allgood L, Appikatla S, Lewis JH**. Toolkit for improved mental wellness among high school students. Presented at: 2024 Community Health Institute; August 24-26, 2024; Atlanta, GA.

Bettridge A, Friedl A [student], Buckley O [student], Siegle B [student], Wadsworth H [student], Awad D [student], Koopal W [alum]. From farm to table: FreshRx cultivating confidence in diabetes self-management. Poster presented at: 2024 Community Health Institute; August 24-26, 2024; Atlanta, GA.

Colussi K [student], **Venkatesh M**. Music during mealtime in residential settings: caregiver experiences and perspectives. Poster presented at: Arizona Alzheimer's Consortium 25th Annual Scientific Conference; September 12, 2024; Tempe, AZ.

Dishman L, Patidar N. Should DEI DIE? Critiques and responses to DEI initiatives: low external pressure, high internal motivation. Presented at: 84th Annual Meeting of the Academy of Management; August 9-13, 2024; Chicago, IL.

Fagen D [student], Love C [student], McCann R [student]. Improving mental health knowledge, attitudes, and beliefs among 7th and 8th grade students through education at a Chicago public school. Presented at: 2024 Community Health Institute; August 24-26, 2024; Atlanta, GA.

Garcia K [student], Jackson S [student], Arias J [student], Bui L [student], Chin G [student], Gutierrez C [student], Pashmineh Azar Y [student], Rodriguez E [student], Saenz-Alvarez A [student], **Quezada C, Appikatla S, Lewis JH**. The roadmap to medicine: addressing the physician shortage in the Central Valley. Poster presented at: 2024 Community Health Institute; August 24-26, 2024; Atlanta, GA.

Hulsey B. Navigating the dizzy patient: a primary care perspective. Presented virtually at: Arizona State Association of Physician Assistants 2024 Fall Live Virtual CME Conference; September 14, 2024.

Kim A [student], Cheema N [student], Arostegui L [student], Bablitz J [student], Catic E [student], Dao K [student], Kakarla H [student], Nguyen W [student], Sheikh I [student], Smith B [student], Broughton S, Shanahan C, **Appikatla S, Lewis JH**. SDOH 101: building confidence and educating nursing students to address social determinants of health with future patients. Presented at: 2024 Community Health Institute; August 24-26, 2024; Atlanta, GA.

Presentations and abstracts, continued

Kuhlmann M, Otey T, Obisesan O [adjunct]. Boosting handoff conversations: increasing efficiency with a standardized nurse handoff shift report. Presented at: 2024 Academy of Medical-Surgical Nurses Annual Convention; September 12-14, 2024; Toronto, Canada.

Loguda-Summers D, Panek A. Supporting curriculum through 3D printing in your library. Presented at: 2024 Missouri Library Association Annual Conference; September 25-27, 2024; Kansas City, MO.

Oei C [student], Welch K [student], Shah K [student], Ago R [student], Botto K [student], Hussaini A [student], Kohn D [student], Lawal J [student], Poppert A [student], Reed H [student], Phelps A, Fein Davis N, **Bereda C**, **Appikatla S**, **Lewis JH**. Empowering communities through Narcan training: an analysis of opioid overdose reversal education in a community setting. Presented at: 2024 Community Health Institute; August 24-26, 2024; Atlanta, GA.

Park JH. Biomechanical vertical control with conventional orthodontics, TADs, and surgery. Presented at: 74th Annual Scientific Session of the Canadian Association of Orthodontists; September 19-21, 2024; Kelowna, Canada.

Park JH. Vertical control with conventional orthodontics, TADs, and surgery. Presented at: 71st Annual Meeting of the Department of Orthodontics at the University of Pennsylvania School of Dental Medicine; September 27, 2024; Philadelphia, PA.

Peckham J [student], Leek M [student], Pfau C [student], Redeman K [student], Sanchez Mora B [student], Schermerhorn M [student], Shank D [student], Suneborn L [student], **Polkey FL**, **Appikatla S**, **Lewis JH**. Self-monitoring blood pressure program impact on community-based primary care in South Carolina low-country. Poster presented at: 2024 Community Health Institute; August 24-26, 2024; Atlanta, GA.

Rahhal MM. A prosthetic approach in implant dentistry. Presented at: Generations Conference 2024; September 27, 2024; Houston, TX.

Rios E [student], Rodriguez Hernandez G [student], Cammon-Thompson D [student], John J [student], Ukadike U [student], Rose B [student], Syed U [student], **Appikatla S**, **Hubbard R**, Carstens S, **Lewis JH**. Evaluating length of stay at Circle the City downtown respite center for the homeless. Presented at: 2024 Community Health Institute; August 24-26, 2024; Atlanta, GA.

Sickles B, Otey T, Obisesan O [adjunct]. Defined uninterrupted nurse breaks: a feasibility study. Presented at: 2024 Academy of Medical-Surgical Nurses Annual Convention; September 12-14, 2024; Toronto, Canada.

Signorino M, Otey T, Obisesan O [adjunct]. Nurses' attitudes, knowledge, and perception of non-ventilated hospital-acquired pneumonia (NV-HAP). Poster presented at: 2024 Academy of Medical-Surgical Nurses Annual Convention; September 12-14, 2024; Toronto, Canada.

Takushi K [student], Akhavan C [student], Balshin M [student], Chmiel B [student], Finley D [student], Jin K [student], Rivera E [student], Spinola K [student], Thompson S [student], Hiu S, **Appikatla S**, **Lewis JH**. Addressing health and wellness in students from Wai'anae High School. Presented at: 2024 Community Health Institute; August 24-26, 2024; Atlanta, GA.

Presentations and abstracts, continued

Tomiser P, Lucas M, Obisesan O [adjunct]. Check before they peck: managing inpatient glycemic events. Poster presented at: 2024 Academy of Medical-Surgical Nurses Annual Convention; September 12-14, 2024; Toronto, Canada.

Tran N [student], Bates A [student], Bents E [student], Conine S [student], Danial L [student], Galvan E [student], Kulbak D [student], Najafi S [student], Pittman H [student], Spradley G [student], Watts LD, De Fontes DC, **Appikatla S, Lewis JH**. Promoting health and wellness: empowering refugee communities in Portland, OR. Poster presented at: 2024 Community Health Institute; August 24-26, 2024; Atlanta, GA.

Underwood R, Otey T, Obisesan O [adjunct]. Learning theories and venipuncture: improving new nurses' peripheral venipuncture self-efficacy. Poster presented at: 2024 Academy of Medical-Surgical Nurses Annual Convention; September 12-14, 2024; Toronto, Canada.

Walker C. Asthma and COPD pharmacology. Presented virtually at: Indiana University Health Advanced Practice Provider Pharmacology Conference; September 27, 2024.

Walker C. From queasy to easy: mastering nausea and vomiting. Presented virtually at: Arizona State Association of Physician Assistants 2024 Fall Live Virtual CME Conference; September 14, 2024.

Sorry we missed you last time

Boever S [student], Johansson A. [Diabetic ketoacidosis presenting as abdominal pain in a two-year-old female: a case report](#). *Cureus*. 2024;16(6):e61730.

English CJ [student], Sodade OE, Austin CL, Causa KA. [Use of split-thickness skin grafts and autologous skin cell suspension in a case of extensive Fournier gangrene](#). *Cureus*. 2024;16(6):e62639.

Kim J, Lee NK, Kook YA, Kim Y, Park CO, Chou AHK, Han SH, **Park JH**. [Long-term skeletodental changes with early and late treatment using modified C-palatal plates in hyperdivergent Class II adolescents](#). *Angle Orthod*. 2024;94(3):303-312.

Lundgren AM [student], Fader JP, Dufek GA, NaThalang-Piñon AG. [Herniation of the right colon, from the cecum to the hepatic flexure, through the foramen of Winslow: a case report](#). *Cureus*. 2024;16(5):e61387.

Muriithi BAK, **Bay RC**. [The effects of occupational disruption during COVID-19 lockdowns on health: a cross-sectional study](#). *PeerJ*. 2024;12:e17594.

First Quarter FY2025 reports research activity for ATSU faculty, students, and staff for July-September 2024. 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.