

2018 CHS Faculty Scholarly Work

Alvarez J, Del Rio M, Mayorga T, Dominguez S, Flores-Montoya MG, **Sobin C.A.** Comparison of Child Blood Lead Levels in Urban and Rural Children Ages 5-12 Years Living in the Border Region of El Paso, Texas. *Arch Environ Contam Toxicol.* 2018 Nov;75(4):503-511. doi: 10.1007/s00244-018-0549-3. Epub 2018 Jul 28. PMID: 30056617.

An, S, **Jung, H**, Lee, S. (2018). Moderating Effects of Community Social Capital on Depression in Later Years of Life: A Latent Interaction Model. *Clinical gerontologist.* 42. 1-10. 10.1080/07317115.2018.1516263.

Bezyak, J, **Umucu, E**, Wu, J-R, Lee, B, Chen, X. (2018). Strategies for Recruiting, Engaging and Retaining Members in a Community of Practice for Disability Employment: A Qualitative Content Analysis. *Journal of Rehabilitation.* 84. 40-47.

Brooks JM, **Umucu E**, Huck GE, Fortuna K, Sánchez J, Chiu C, Bartels SJ. Sociodemographic characteristics, health conditions, and functional impairment among older adults with serious mental illness reporting moderate-to-severe pain. *Psychiatr Rehabil J.* 2018 Sep;41(3):224-233. doi: 10.1037/prj0000316. PMID: 30160508; PMCID: PMC6123826.

Brooks, J, **Umucu, E**, Eagle, D, Morrison, B, et al. Further Validation of the Leisure Time Physical Activity Instrument in People with Chronic Musculoskeletal Pain. *European Journal of Adapted Physical Activity,* 11(1), 1-9

Chan, F, Kaya, C, **Umucu, E**, & Bezyak, J. (2018). Evaluating Turkish university students' preferences for mental health therapists: A conjoint analysis approach. *European Journal of Psychotherapy & Counselling,* 20. 411-428. 10.1080/13642537.2018.1529689.

Concha, J.B. Approaches to enhancing patient-centered communication in caring for Hispanic/Latino patients with diabetes. *JCOM* 25(3)

Coovert D, Evans LD, Jarrett S, Lima C, Lima N, **Gurovich AN.** Blood flow patterns during incremental and steady-state aerobic exercise. *J Sports Med Phys Fitness.* 2018 Oct;58(10):1537-1543. doi: 10.23736/S0022-4707.17.07142-0. Epub 2017 May 30. PMID: 28558444.

Duarte-Gardea MO, Gonzales-Pacheco DM, Reader DM, Thomas AM, Wang SR, Gregory RP, Piemonte TA, Thompson KL, Moloney L. Academy of Nutrition and Dietetics Gestational Diabetes Evidence-Based Nutrition Practice Guideline. *J Acad Nutr Diet.* 2018 Sep;118(9):1719-1742. doi: 10.1016/j.jand.2018.03.014. Epub 2018 May 30. PMID: 29859757.

Dufek, Janet & Harry, John & **Eggleston, Jeff** & Hickman, Robbin. (2018). Walking Mechanics and Movement Pattern Variability in Monozygotic Twins with Autism Spectrum Disorder. *Journal of Developmental and Physical Disabilities.* 30. 10.1007/s10882-018-9620-2.

Eggleston JD, Harry JR, Dufek JS. Lower extremity joint stiffness during walking distinguishes children with and without autism. *Hum Mov Sci.* 2018 Dec;62:25-33. doi: 10.1016/j.humov.2018.09.003. Epub 2018 Sep 13. PMID: 30218847; PMCID: PMC6251740.

Eggleston JD, Landers MR, Bates BT, Nagelhout E, Dufek JS. Weighted Walking Influences Lower Extremity Coordination in Children on the Autism Spectrum. *Percept Mot Skills.* 2018 Dec; 125(6):1103-1122. doi: 10.1177/0031512518803178. Epub 2018 Oct 14. PMID: 30319016.

Fernández-Verdejo, R., **Bajpeyi, S.**, Ravussin, E., & Galgani, J. E. (2018). Metabolic flexibility to lipid availability during exercise is enhanced in individuals with high insulin sensitivity. *American journal of physiology. Endocrinology and metabolism,* 315(4), E715-E722. <https://doi.org/10.1152/ajpendo.00126.2018>

Garrand, Kiersten PT, DPT; **Pechak, Celia PT, PhD, MPH**; Jimenez, Liliana PT, DPT; Gell, Nancy PT, PhD, MPH Survey of Disability Competence Teaching and Assessment Strategies in Physical Therapist Education, *Journal of Physical Therapy Education:* March 2018 - Volume 32 - Issue 1 - p 55-64. doi: 10.1097/JTE.0000000000000026

Gibson, Todd & **Summers, C.** (2018). A perceptual study of cross-language influence on vocal fry use in women exposed to two languages. *International Journal of Bilingual Education and Bilingualism.* 24. 1-13.

Gibson, Todd & **Summers, Connie**. (2018). Polysyllabic shortening in speakers exposed to two languages. *Bilingualism: Language and Cognition*. 21. 1-8. 10.1017/S1366728918000068.

Gleason CE, Norton D, Anderson ED, Wahoske M, Washington DT, **Umucu E**, Koscik RL, Dowling NM, Johnson SC, Carlsson CM, Asthana S; Alzheimer's Disease Neuroimaging Initiative. Cognitive Variability Predicts Incident Alzheimer's Disease and Mild Cognitive Impairment Comparable to a Cerebrospinal Fluid Biomarker. *J Alzheimers Dis*. 2018;61(1):79-89. doi: 10.3233/JAD-170498. PMID: 29125485; PMCID: PMC5714663.

Gurovich, Alvaro N. PT, PhD, FACSM1; Heiser, Brittany MS2; Hayes, Chase MS2; Marshall, Emily MS2; Roath, Stephanie MS2; Kabous, Neil G. MD3 Clinical Markers of Exercise Intensity as a Surrogate for Blood Lactate Levels Only During Low-Intensity Exercise in Patients With Coronary Artery Disease, Cardiopulmonary Physical Therapy Journal: October 2018 - Volume 29 - Issue 4 - p 144-151. doi: 10.1097/CPT.0000000000000082

Hernandez Ochoa, TA, Gomez Bull, KG, **Ibarra-Mejia, G**, Vargas Salgado, MM, Maynez Guaderrama, A. Implementación de poka-yoke en herramiental para disminución de PPMS en estacion de ensamble. *CULCyT*, 15(64), 57-63. ISSN:2007-0411

Huck GE, Finnicum C, Morrison B, Kaseroff A, **Umucu E**. Consumer perspectives on physical activity interventions within assertive community treatment programs. *Psychiatr Rehabil J*. 2018 Dec;41(4):312-318. doi: 10.1037/prj0000311. Epub 2018 Jul 12. PMID: 29999334.

Kalhapure, R.S., Bolla, P., **Dominguez, D.C.**, Dahal, A., Boddu, S., & Renukuntla, J. (2018). FSE-Ag complex NS: preparation and evaluation of antibacterial activity. *IET nanobiotechnology*, 12(6), 836–840. <https://doi.org/10.1049/iet-nbt.2017.0284>

Kim, Y, Lee, S, **Jung, H**, Jaime, J, & Cubbin, C. (2018). Is neighborhood poverty harmful to every child? Neighborhood poverty, family poverty, and internalizing and externalizing behaviors among young children. *Journal of Community Psychology*, 47. 10.1002/jcop.22140.

Koelsch KA, Cavett J, Smith K, **Moore JS**, Lehoux SD, et al. Evidence of Alternative Modes of B Cell Activation Involving Acquired Fab Regions of N-Glycosylation in Antibody-Secreting Cells Infiltrating the Labial Salivary Glands of Patients With Sjögren's Syndrome. *Arthritis Rheumatol.* 2018 Jul;70(7):1102-1113. doi: 10.1002/art.40458. Epub 2018 May 11. PMID: 29457375; PMCID: PMC6019603.

Loza O, Alvarez CR, Peralta-Torres D. Healthcare and Social Services Providers Who Serve Sexual and Gender Minorities in a U.S.-Mexico Border City. *J Immigr Minor Health.* 2018 Dec; 20(6):1537-1540. doi: 10.1007/s10903-018-0688-7. PMID: 29335809.

Mezuk B, Thornton W, Sealy-Jefferson S, Montgomery J, Smith J, Lexima E, Mejia Ruiz MJ, **Concha JB**. Successfully Managing Diabetes in a Community Setting: Evidence From the YMCA of Greater Richmond Diabetes Control Program. *Diabetes Educ.* 2018 Aug;44(4):383-394. doi: 10.1177/0145721718784265. Epub 2018 Jun 26. PMID: 29944067.

Moya, E, Chavez-Baray, S, Martinez, O, Mattera, B, Adcox, C. Bridging the gap between micro and macro practice to address homelessness in the U.S.-Mexico Border region: Implications for practitioners and community stakeholders. *Reflections Narratives of Professional Helping*, 24 (1), 102-118

Paat, Y-F, Hope, T, **Zamora, H**, Lopez, LC, Salas, CM. Inside the lives of Mexican origin ex-convicts: Pre- and post-incarceration. *International Journal for Crime, Justice and Social Democracy*, 7(4), 83-99

Pape JL, Brismée JM, Sizer PS, Matthijs OC, **Browne KL**, Dewan BM, Sobczak S. Increased spinal height using propped slouched sitting postures: Innovative ways to rehydrate intervertebral discs. *Appl Ergon.* 2018 Jan; 66:9-17. doi: 10.1016/j.apergo.2017.07.016. Epub 2017 Aug 5. PMID: 28958435.

Pechak C, Dillon L, Umucu E. Improving Patient-Provider Communication: Evolution of a Tool to Assess Physical Therapist Students' Spanish-Language Proficiency. *Health Commun.* 2019 Nov;34(12):1433-1440. doi: 10.1080/10410236.2018.1495161. Epub 2018 Jul 10. PMID: 29989438.

Pechak C, Summers C, Schoen B, Padilla M, **Lara P**, Velasco J, Capshaw S. Development and Preliminary Assessment of Interprofessional Education Focused on Vulnerable Populations. *J Allied Health*. 2018 Fall;47(3):e75-e81. PMID: 30194834.

Pechak C, Summers C, Velasco J. Improved Knowledge Following an Interprofessional Interpreter-Use Training. *J Allied Health*. 2018 Fall;47(3):159-166. PMID: 30194821.

Peña Ayala, LE, Gómez Bull, KG, Vargas Salgado, MM, **Ibarra Mejía, G.**, Maynez Guaderrama, AI. Determinación de rangos de movimiento del miembro superior en una muestra de estudiantes universitarios mexicanos. (Determination of Range of Motion for Upper Limbs in a Sample of Mexican University Students). *Revista Ciencias de la Salud*. Universidad del Rosario. 16. 64-74. ISSN-e: 2145-4507. ISSN: 16927273

Sajquim de Torres, M, **Lusk, M.** Factors promoting resilience among Mexican migrant women in the USA: Applying a positive deviance approach. *Estudios Fronterizos*, 19(2018), 1-20

Sophajaree, C., Sophajaree, S., Sophajaree, C., **Ibarra-Mejía, G.** Prevalence and Risk Factors of Low Back Pain Among School Teachers in Uttaradit and Phitsanulok Provinces. *Nursing Journal*, 44(4), 76-87. ISSN: 0125-5118. NLM ID: 9426121

Tansey, T.N., Smedema, S., **Umucu, E.**, Iwanaga, K., Wu, J.-R., Cardoso, E. d. S., & Strauser, D. (2018). Assessing college life adjustment of students with disabilities: Application of the PERMA framework. *Rehabilitation Counseling Bulletin*, 61(3), 131–142.
<https://doi.org/10.1177/0034355217702136>

Toledo FGS, Johannsen DL, Covington JD, **Bajpeyi S**, Goodpaster B, Conley KE, Ravussin E. Impact of prolonged overfeeding on skeletal muscle mitochondria in healthy individuals. *Diabetologia*. 2018 Feb;61(2):466-475. doi: 10.1007/s00125-017-4496-8. Epub 2017 Nov 17. PMID: 29150696; PMCID: PMC5770194.

Umucu, E., Brooks, J.M., Lee, B., Iwanaga, K., Wu, J.-R., Chen, A., & Chan, F. (2018). Measuring dispositional optimism in student Veterans: An item response theory analysis. *Military Psychology*, 30(6), 590-597. <https://doi.org/10.1080/08995605.2018.1522161>

Umucu, E., Iwanaga, K., Wu, J.-R., Brooks, J.M., Ditchman, N., Flowers-Benton, S., & Chan, F. (2018). Preliminary validation of a short form of the Perceived Stress Questionnaire for use in clinical rehabilitation counseling research and practice. *Rehabilitation Research, Policy and Education*, 32(4), 232–243. <https://doi.org/10.1891/0889-7018.32.4.232>

Wei, X., Zhou, W., Sanjay, S. T., Zhang, J., Jin, Q., Xu, F., **Dominguez, D.C.**, & Li, X. (2018). Multiplexed Instrument-Free Bar-Chart SpinChip Integrated with Nanoparticle-Mediated Magnetic Aptasensors for Visual Quantitative Detection of Multiple Pathogens. *Analytical chemistry*, 90(16), 9888–9896. <https://doi.org/10.1021/acs.analchem.8b02055>

Welton M, Rodriguez-Lainz A, **Loza O**, Brodine S, Fraga M. Use of lead-glazed ceramic ware and lead-based folk remedies in a rural community of Baja California, Mexico. *Glob Health Promot*. 2018 Mar;25(1):6-14. doi: 10.1177/1757975916639861. Epub 2016 Jun 14. PMID: 27301977.