

# 2022 -2023 Key Publications

## Publications 7.1.22 to 6.30.23

*	denotes publication or presentation by/includes PM&R Resident Physician
#	denotes publication or presentation by/includes student (pre-doctoral, med, and/or graduate)
^	denotes publication or presentation by/includes Fellow
+	denotes publication or presentation by/includes staff from Department of Therapies at CR
++	denotes publication or presentation by/includes staff from Nursing (starting on 5/26/2021 contributions from Nursing added to the list)
\$	denotes publication or presentation by/includes staff from Department of Neuropsychology (starting 7/15/21 contributions from Neuropsychology added to the list).
&	denotes publication or presentation representing Wake Forest/Atrium integration

1. Patel B, Raj V, Michell C, Rathore F. A Brief Review of Inpatient Palliative Rehabilitation. Accepted on May 12 2023.
2. Yeh JC, Ambady L, Lewis R, Mehta AK, Asher A, **Raj VS**, Engle JP. Palliative care education in US physical medicine and rehabilitation residency programs: Current practices, perceived needs, and barriers. *Journal of Palliative Medicine*. 2023; Jun 16. doi: 10.1089/jpm.2022.0606. Online ahead of print. doi: 10.1089/jpm.2022.0606. [Epub ahead of print]. PMID: 37335750
3. ^Hoyer EH, Kumble S, Pruski A, Daley KN, Langton-Frost N, **Patel B**, Liu Y, Vaidya D, Lavezza A, Celnik PA. Improving hospital outcomes using an acute hospital rehabilitation intensive service (ARISE) for patients with COVID-19. *J Intern Med*. 2023;293(5):659-661. doi:10.1111/joim.13613 PMID: 36883271
4. Gomes ESA, Van den Heuvel OA, Rietberg MB, De Groot V, **Hirsch MA**, Van de Berg WDJ, Jaspers RT, Vriend C, Vanbellingen T, van Wegen EEH. (HIIT-The Track) High-intensity interval training for people with Parkinson's disease: Individual response patterns of (non-)motor symptoms and blood-based biomarkers—A crossover single-case experimental design. *Brain Sciences*. 2023;13(6):849. <https://doi.org/10.3390/brainsci13060849> (published May 24, 2023).
5. Haley KL, Jacks, AJ, Kim S, Rodriguez M, **Johnson LP**. Normative values for word syllable duration with interpretation in a large sample of stroke survivors with aphasia. *American Journal of Speech-Language Pathology*. Accepted, May 2023.
6. Werneburg GT, Welk B, Averbek MA, Blok BFM, Hamid R, **Kennelly MJ**, Liao L, Musco S, Vasudeva P, Kessler TM. Neuro-urology: Call for universal, resource-independent guidance. *Biomedicines*. 2023 Jan 29;11(2):397. doi: 10.3390/biomedicines11020397. PMID: 36830934
7. Gupta E, **Mitchell CH**, Ngo-Huang A, Mann R, Stout NL. Addressing social determinants of health to reduce disparities among individuals with cancer: Insights for rehabilitation professionals. *Current Oncology Reports* (2023). <https://doi.org/10.1007/s11912-023-01396-3> Published March 30, 2023.

8. Venkatesan UM, et al. Among authors: **Pinto SM**. Societal participation of people with traumatic brain injury before and during the COVID-19 pandemic: A NIDILRR Traumatic Brain Injury Model Systems study. *Arch Phys Med Rehabil*. 2023. PMID: 36736808
9. \***Howard A, Theiss R, John A**. Peroneus tendon disorders: Evaluation and non-operative management. *Current Physical Medicine and Rehabilitation Reports*. Accepted 2/27/2023.
10. +**Miller D**, et al. A qualitative analysis of adolescents and adults' perceptions of experiences of sensory-based interventions. *American Journal of Occupational Therapy*. Accepted for publication 1/31/2023.
11. Moon S, Kletzel SL, Santos FH, York MK, Foster ER, Goldman JG, **Hirsch MA**, Devos H, Leroi I. A patient's guide to memory changes in Parkinson's disease. *Arch Phys Med Rehabil*. Accepted for publication 1/26/2023.
12. Colletta K, Kletzel S, **Hirsch M**, van Wegen E, Gross M, Walker S, Devos H. Practical strategies for managing freezing of gait at home for people living with Parkinson's disease. *Arch Phys Med Rehabil*. Accepted for publication 01/12/2023.
13. Martin AM, **Pinto S**, Tang X, Hoffman J, Schwartz DJ, Wittine L, Walker WC, Schwartz DJ, Kane G, Takagishi SC, Nakase-Richardson R. Associations between early sleep-disordered breathing following moderate-to-severe traumatic brain injury and long-term chronic pain status: a Traumatic Brain Injury Model System study. *J Clin Sleep Med*. 2023;19(1):135–143.
14. +**Hyslop AM**, Hadgis N, Presti R. Physical therapy and occupation therapy management of a person with bilateral transradial amputations: A case report. *Disability and Rehabilitation*. 2022; published online Dec 5, 2022. DOI: 10.1080/09638288.2022.2153180. Accepted Nov 24, 2022.
15. Wong DC, **Hirsch MA**, van Wegen EEH, Hein A, Sood P, Heyn PC, Johnson L. Falls prevention, home safety, and rehabilitation services for people with Parkinson's disease: A client and caregiver guide. *Arch Phys Med Rehabil*. Accepted for publication 11/30/2022.
16. Zanwar PP, Sasson C, Heyn PC, Pinto SM, Magasi S, **Hirsch MA**, Negm A. Why get vaccinated and stay up to date for the coronavirus COVID-19 vaccine? *Arch Phys Med Rehabil*. Accepted for publication 10/25/2022. In press, available online 10 December 2022.
17. \*+Perreault T, **Ball A**, Dommerholt J, **Theiss R**, Fernandez-de-las-Penas C, Butts R. Intramuscular electrical stimulation to trigger points: Insights into mechanisms and clinical applications – A scoping review. *J. Clin Med (ISSN 2077-0383)* on 10 October 2022 (manuscript #jcm-1933906).
18. \*#Casey S, **Westerbeck E**, Kiser A, Carpenito E, **Pugh T**. A rare case of Geschwind Syndrome associated with Glioblastoma Multiforme. *PM R*. 2022 Sep 24. doi: 10.1002/pmrj.12905. Epub ahead of print. PMID: 36152316.
19. van Wegen EEH, Rietberg MB, Vanbellingen T, **Hirsch MA**. Physical Rehabilitation of Patients with Parkinson's Disease. Chapter 20. In E. Wolters (Ed.), *Parkinson Disease and Other Movement Disorders*, 2022, accepted for publication August 2022.

# 2023 Conference Posters and Presentations

1. Crawford K. Behavior management and behavior plans. Charlotte Area of Health Education Center, Brain Injury: Behavioral and Medical Intervention Series Lecturer, May 24, 2023.
2. Crawford K. Addressing sexuality on the rehab unit via Carolinas Rehabilitation Clinical Pathways Qatar Rehabilitation Institute Lecturer, June 21, 2023.
3. Raj VS. Global impact of cancer and opportunities for the future within the ISPRM cancer rehabilitation SIG. Oral Presentation. The 17th World Congress of the International Society of Physical and Rehabilitation Medicine. Cartagena, Columbia, June 5, 2023.
4. Francisco GE, Raj VS. Working together to achieve shared goals: The ISPRM Special Interest Groups (SIGS). Oral Presentation. The 17th World Congress of the International Society of Physical and Rehabilitation Medicine. Cartagena, Columbia, June 6, 2023.
5. Rider M, Haak J, Raj VS, Valbuena AD, Steinberg D, Shapiro L. Not Admitting Defeat: Overturning Rehab Admission Denials. Oral Presentation; American Academy of Physical Medicine and Rehabilitation Inpatient Rehabilitation Community Meeting; Virtual, May 4, 2023.
6. +Hyslop AM. Flipping the classroom in neurologic physical therapy residency education. American Council on Academic Physical Therapy Forging Ahead: The Future of Clinical Reasoning Conference, April 14-15, 2023, Phoenix, AZ. Poster.
7. McConaghy M, Corcos D, de Vries N, Hirsch MA. Exercise in Parkinson's disease, live panel, 2023 Insight Into Parkinson's: Parkinson's Online Conference For Parkinson's Awareness Month, April 12, 2023. <https://www.pdwarriorplus.com/insight/>
8. Johnson L, Rodrigues M, Hirsch MA, Jacks A, Haley K. Modification of the Quick Aphasia Battery (QAB) to improve ease of scoring and rater agreement for research and clinical use. 5th Aphasia Access Leadership Summit, Raleigh-Durham, NC, March 23-25, 2023.
9. Jacks A, Johnson L, Hirsch MA, Kim S, Rodrigues M, Haley K. The rest of the iceberg: What do we know about people who decline research studies? 5th Aphasia Access Leadership Summit, Raleigh-Durham, NC, March 23-25, 2023.
10. Goldman J, Raj V, Pugh T, Tiongco C, Norbury J. A cross sectional survey to understand the perception of cancer rehabilitation amongst healthcare professionals in a rural community. Annual Meeting of the Association of Academic Physiatry, Anaheim, California, February, 21-24, 2023.
11. \*Edmonds R, Pham C, Payne CL. Development of parosmia after cerebrovascular accident. Annual Meeting of the Association of Academic Physiatry, Anaheim, California, February, 21-24, 2023.
12. \*Viscusi A, Crawford KM. Central pontine myelinolysis: A rare complication of COVID-19. Annual Meeting of the Association of Academic Physiatrists, Anaheim, CA, February 21-24, 2023.

13. \*Kurtz J, Crawford KM. Don't dismiss dantrolene induced urinary retention: A case study. Annual Meeting of the Association of Academic Physiatrists, Anaheim, CA, February 21-24, 2023.
14. Desai S (course director), Crawford KM, Edwards J. Mobility and fragility: Geriatric traumatic brain injury care and management. Annual Meeting of the Association of Academic Physiatrists, Anaheim, CA, February 22, 2023

### **PM&R Medical Student Research Mentorship Program**

15. \*[Sidwell A](#), Gillund M, Crawford KM, Rupp N. Wheelchair dependent to golfing 18 holes: Drastic functional improvement after delayed cranioplasty in syndrome of trephined. Annual Meeting of the Association of Academic Physiatrists, Anaheim, CA, February 21-24, 2023.
16. \*[Schultze W](#), Andrews P, Crawford KM. Complete tear of the proximal extensor carpi radialis longus: A rare case of non-operative recovery. Annual Meeting of the Association of Academic Physiatrists, Anaheim, CA, February 21-23, 2023.
17. \*[Quinn M](#), Mathern R, Crawford KM. Bilateral vertebral arterial dissection: A rare complication of cervical manipulation. Annual Meeting of the Association of Academic Physiatrists, Anaheim, CA, February 21-24, 2023.
18. \*[#Crees N](#), John A, Pugh T. Buerger's disease complications for consideration in lymphedema management: Poor wound healing leading to amputation. Annual Meeting of Association of Academic Physiatrists, Anaheim, California, February 21-24, 2023. Poster.
19. \*Theiss R, Aggarwal P, [Khatab Y](#). A unique case of peroneal nerve injury secondary to excessive Peloton use. Annual Meeting of Association of Academic Physiatrists, Anaheim, California, February 21-24, 2023. Poster.
20. [Srivastava S](#), Kennelly M, Tsai T. Athletic injury in a non-athlete: Obturator internus strain associated with tonic-clonic seizure in a non-ambulatory child with tetraplegia. Annual Meeting of Association of Academic Physiatrists, Anaheim, California, February 21-24, 2023. Poster.
21. \*[Brown KM](#), Moore ME, Desai SA. Novel treatment of Lance-Adams Syndrome in an adult with dual brain injury using brivaracetam: A case report. Annual Meeting of Association of Academic Physiatrists, Anaheim, California, February 21-24, 2023. Poster.
22. \*Viscusi AR, Mahmoud MA, Desai SA. No Z's with Zolpidem: A case report. Annual Meeting of Association of Academic Physiatrists, Anaheim, California, February 21-24, 2023. Poster.
23. Raj VS. Deep dive: Integrated rehabilitation. Oral Presentation; Arab Health Conference 2023; Dubai, United Arab Emirates (Virtual) January 31, 2023.
24. Welsh K. The PHQ & GAD module/variable questions via survey/ follow up calls given to the TBIMS follow- up subjects The TBIMS Data Collectors Conference, Arlington, VA November 29-30, 2022.
25. Johnson LP, Guerrier T, Hirsch M, Jacks A, Kim S, Rodriguez M, Thomas G, Welsh K, Haley K. Perspectives on encouraging diversity and inclusion among stroke rehabilitation research teams. Annual Meeting of the American Congress of Rehabilitation Medicine. Chicago, IL, November 11,

2022. Poster.

26. Lofton L, Weeks EC, Simpson J, Orban A, Werts K. No skin off my back: An interdisciplinary model for managing pressure ulcers in inpatient rehabilitation. Annual Meeting of the American Congress of Rehabilitation Medicine. Chicago, IL, November 11, 2022. Symposium.
27. Gadd C, Raj V, Eaddy R. COVID decompression: Creating and operating a medical/surgical unit within an acute rehabilitation setting. Annual Meeting of the American Congress of Rehabilitation Medicine. Chicago, IL, November 11, 2022, Symposium.
28. Squarize F, Yow R, Pugh T et al. Management of patients with hematological malignancies in the inpatient rehabilitation setting. Annual Meeting of the American Congress of Rehabilitation Medicine. Chicago, IL, November 10, 2022, Symposium.
29. Lorden B, Bensky A, Savodnik A, England H, Patel B, Raj V. Navigating unique cancer rehabilitation considerations. Annual Meeting of the American Congress of Rehabilitation Medicine. Chicago, IL, November 9, 2022, Symposium.
30. +Sewell KL, Gentile D, Williams A, Werts K, Desai SA, Crawford KM, Cline J. The Hope for Home Program: A new model of rehab for unfunded patients. Annual Meeting of the American Congress of Rehabilitation Medicine. Chicago, IL, November 9, 2022, Symposium.
31. Hirsch MA, Anokye R, Ries JD, Heyn PC, Sood P, Buard I, van Wegen EEH. Current perspectives on exercise in people with neurodegenerative conditions. Annual Meeting of the American Congress of Rehabilitation Medicine, Chicago, IL, November 8, 2022, Symposium.
32. Hirsch MA, van Wegen EEH. Exercise and neuroplasticity in rehabilitation of human Parkinson's disease. Annual Meeting of the American Congress of Rehabilitation Medicine, Chicago, IL, November 10, 2022, Symposium.
33. Gan D, Hirsch MA, Sakamoto M. Community-engaged research for brain health. Annual Meeting of the American Congress of Rehabilitation Medicine, Chicago, IL, November 8, 2022, Symposium.
34. Hirsch MA, Heyn PC, Oyesanya T, Downer B, Ogawa E, Lofton L, Desai SA, Siengsukon C, van Wegen EEH, Faieta J. Perspectives on mentoring rehabilitation researchers who identify as members of racial/ethnic minority groups. Annual Meeting of the American Congress of Rehabilitation Medicine, Chicago, IL, November 9, 2022, Symposium.
35. York MK, Goldman JG, Hirsch MA, Kletzel S. Advantages and disadvantages of neuromodulation in the treatment of Parkinson's disease. Annual Meeting of the American Congress of Rehabilitation Medicine, Chicago, IL, November 11, 2022, Symposium.
36. Buard I, Hirsch MA, Shelton J, Goldman J. A glimpse into Parkinson's disease through arts. Annual Meeting of the American Congress of Rehabilitation Medicine, Chicago, IL, November 10, 2022, Symposium.
37. AbouZeki D, Hirsch MA, van Wegen EEH. Digital health solutions for monitoring and management of patients with multiple sclerosis. Annual Meeting of the American Congress of Rehabilitation Medicine, Chicago, IL, November 11, 2022, Symposium.

38. York MK, Goldman J, Toledo S, Marchbanks S, Hirsch M, Dobryakova E. Integrative rehabilitation medicine in neurodegenerative disorders: A Parkinson's disease model. Annual Meeting of the American Congress of Rehabilitation Medicine, Chicago, IL, November 10, Special Symposium.
39. Hirsch MA, Cogan A, Ogawa E, Pappadis M, Heyn P. 6th Annual ACRM Women in Rehabilitation Science Special Symposium. Annual Meeting of the American Congress of Rehabilitation Medicine, Chicago, IL, November 9, 2022, Special Symposium.
40. Thommen D, Melton D, Elgart M (Moderators). Osseointegration prosthetics. GCCO - Global Collaborative Conference on Osseointegration, November 3-5, 2022.
41. Thommen D, Prasso L (Moderators). Osseointegration rehabilitation. GCCO - Global Collaborative Conference on Osseointegration, November 3-5, 2022.
42. Thommen D. Optimizing OI functional outcomes with rehabilitative medicine. GCCO - Global Collaborative Conference on Osseointegration, November 3-5, 2022. Oral presentation.
43. Emam M, Argyriou A, Howard A, Naguib A, Moore MA, Raja A. Learning center: Ultrasonography for common entrapment neuropathies of the upper extremity. American Academy of Physical Medicine and Rehabilitation Annual Meeting, Baltimore, MD. October 21, 2022.
44. \*Moore M, Tsai T, Teranishi R. Acute hemorrhagic leukoencephalitis in a pediatric patient with COVID-19 infection: A case report. American Academy of Physical Medicine and Rehabilitation Annual Meeting, Baltimore, MD. October 20-23, 2022. Poster.
45. \*Kennelly M, Rup N, Murphy S, Pinto S. The effect of multi-disciplinary clinic on 30-day avoidable hospital readmission following acute inpatient rehabilitation. American Academy of Physical Medicine and Rehabilitation Annual Meeting, Baltimore, MD. October 22, 2022. Oral presentation.
46. \*Kennelly M, Socha L, Tsai T. Spinal cord infarct in infantile polyarteritis nodosa: A Case report. American Academy of Physical Medicine and Rehabilitation Annual Meeting, Baltimore, MD. October 20-23, 2022. Poster.
47. Emam M, Argyriou A, Howard A, Naguib A, Moore MA, Raja A. Learning center: Ultrasonography for common entrapment neuropathies of the upper extremity. American Academy of Physical Medicine and Rehabilitation Annual Meeting, Baltimore, MD, Friday, October 21.
48. Segal M, Crawford K, Russell ME, Savitz A, Moon D, Ivanhoe CB. What's shaking? Evaluation and management of post stroke and brain injury movement disorders. American Academy of Physical Medicine and Rehabilitation Annual Meeting, Baltimore, MD, Friday, October 21.
49. Ni AY, Dy R, Francisco GE, Raj VS. Global outreach in PM&R: Opportunities, disparities, and new horizons. American Academy of Physical Medicine and Rehabilitation Annual Meeting, Baltimore, MD, Friday, October 21.
50. Darji NB, Ivanhoe CB, Dannenbaum M. From CT to shunt and beyond: The value of physiatry in recognition and management of hydrocephalus after brain injury. American Academy of Physical Medicine and Rehabilitation Annual Meeting, Baltimore, MD, Saturday, October 22, 2022.

51. Teranishi RK, Crawford K, Myatt JS. Trauma-informed care for individuals admitted to the acute rehabilitation unit. American Academy of Physical Medicine and Rehabilitation Annual Meeting, Baltimore, MD, Saturday, October 22, 2022.
52. \*Kennelly M, Pinto S, Rupp N. Practice management, leadership, and quality improvement. American Academy of Physical Medicine and Rehabilitation Annual Meeting, Live Theatre Research Spotlight. Baltimore, MD. October 22, 2022.
53. ++Gadd C, Eaddy R, Raj V. COVID decompression: Transforming a rehabilitation unit to a medical/surgical unit. 2022 Fall Educational Conference and Expo of the American Medical Rehabilitation Providers Association, October 10, 2022, St Louis Missouri. Oral presentation.
54. ++Ballard S. Well-being and self-care in the workplace post COVID-19: Help is on the way. 2022 Association of Rehabilitation (ARN) Annual Nursing Conference, Sept 20-23, 2022, San Diego, CA. Poster.
55. ++Gadd C. Three-tier preadmission decision tool. 2022 Association of Rehabilitation (ARN) Annual Nursing Conference, Sept 20-23, 2022, San Diego, CA. Poster.
56. ++Gadd C. COVID decompression: Transforming a rehabilitation unit to a medical/surgical unit. 2022 Association of Rehabilitation (ARN) Annual Nursing Conference, Sept 20-23, 2022, San Diego, CA. Poster.
57. ++Hale B, Johnson M. Let's chat! The importance of communication and documentation. 2022 Association of Rehabilitation (ARN) Annual Nursing Conference, Sept 20-23, 2022, San Diego, CA. Podium presentation.
58. ++Hartge M, Schultz A. School of Nursing Outreach Program. 2022 Association of Rehabilitation (ARN) Annual Nursing Conference, Sept 20-23, 2022, San Diego, CA. Podium Presentation.
59. ++Johnson M. One and done – A process for improving CHG bathing compliance. 2022 Association of Rehabilitation (ARN) Annual Nursing Conference, Sept 20-23, 2022, San Diego, CA. Poster.
60. ++Neubauer M. Prevent CLABSI infection and improve CHG compliance. 2022 Association of Rehabilitation (ARN) Annual Nursing Conference, Sept 20-23, 2022, San Diego, CA. Poster.
61. ++Neubauer M, Ajewole L. Welcome family orientation – An interdisciplinary approach. 2022 Association of Rehabilitation (ARN) Annual Nursing Conference, Sept 20-23, 2022, San Diego, CA. Poster.
62. ++Orban A. Enhancing wound care compliance with implementation of interactive wound care educational material. 2022 Association of Rehabilitation (ARN) Annual Nursing Conference, Sept 20-23, 2022, San Diego, CA. Poster.
63. ++Pue J. Sharing practices within a protected environment: Benefits of a patient safety organization (PSO). 2022 Association of Rehabilitation (ARN) Annual Nursing Conference, Sept 20-23, San Diego, CA. Podium Presentation.

64. ++Queen B, Queen E. New graduate orientation. 2022 Association of Rehabilitation (ARN) Annual Nursing Conference, Sept 20-23, 2022, San Diego, CA. Poster.
65. ++Simpson J. Improving ostomy care collaboration between the WOCN and OT. 2022 Association of Rehabilitation (ARN) Annual Nursing Conference, Sept 20-23, 2022, San Diego, CA. Poster.
66. ++Schultz A, Nguyen V. Rehabilitating orientation: Listening to the learners. 2022 Association of (ARN) Annual Nursing Conference, Sept 20-23, 2022, San Diego, CA. Podium Presentation.
67. Martin AM, Pinto S, Tang X, Hoffman J, Schwartz DJ, Wittine L, Walker WC, Kane G, Takagishi SC, Nakase-Richardson R. Sleep apnea as a potential contributor to chronic pain following moderate to severe TBI: A TBI Model Systems Study. Military Health System Research Symposium (MHSRS), Kissimmee, FL. September 12-15, 2022. Poster.
68. +Gentile D, Fields L. Creating a sustainable, effective assistive technology and adaptive equipment program for the spinal cord injury population in a rehabilitation setting. 2022 ASCIP Educational Conference & Expo - Academy of Spinal Cord Injury Professionals, September 7-10, 2022, Kansas City, Missouri, Poster.
69. + ++Fields L, Smith C. An interdisciplinary approach to educating patients and their families on intermittent catheterization. 2022 ASCIP Educational Conference & Expo - Academy of Spinal Cord Injury Professionals, September 7-10, 2022, Kansas City, Missouri, Oral/platform presentation.
70. +Fields L, Lim A. Therapeutic management of the upper extremity following cervical spinal cord injury. 2022 ASCIP Educational Conference & Expo - Academy of Spinal Cord Injury Professionals, September 7-10, 2022, Kansas City, Missouri, Oral/platform presentation.
71. Shall M, Groggs C, Eaddy R, Comeaux D, Hofferbert W, Racharla S, Ross G, Lutwick Z, Price K. Implementation of an emergency department communication tool to assist in the prevention of acute care readmissions. 12 Annual Quality and Patient Experience Sharing Day, poster submitted in July 2022.
72. Nguyen L, Hirsch MA, Nguyen VQC. A qualitative assessment of CITI training from researchers with different experience levels (ID: 5415). Annual Meeting of Academic Physiatrists/International Society of Physical and Rehabilitation Medicine World Congress, Lisboa, Portugal, July 3-7, 2022. Electronic Poster.