

Brain Injury Research Publications

2023 PUBLICATIONS

Dams-O'Connor K, Juengst SB, Bogner J, Chiaravalloti ND, Corrigan JD, Giacino JT, Harrison-Felix CL, Hoffman JM, Ketchum JM, Lequerica AH, Marwitz JH, Miller AC, Nakase-Richardson R, Amanda R. Rabinowitz AR, Sander AM, Zafonte R; **Hammond FM**. Traumatic brain injury as a chronic disease: insights from the United States Traumatic Brain Injury Model Systems Research Program. *The Lancet Neurology*. 2023, ISSN 1474-4422, [https://doi.org/10.1016/S1474-4422\(23\)00065-0](https://doi.org/10.1016/S1474-4422(23)00065-0).

Hammond FM, Ketchum J, Patni V, Nejadnik B, Bates D, Weintraub A. Determining The Minimally Clinically Important Difference For The Disability Rating Scale In Persons With Chronic Traumatic Brain Injury. *Neurotrauma Reports* Jul 4, 2023 <https://doi.org/10.1089/neur.2023.0038>

Hoffman JM, Ketchum JM, Agtarap S, Dams-O'Connor K, **Hammond FM**, Martin AM, Sevigny M, Walker WC, Harrison-Felix C, Zafonte R, Nakase-Richardson R. Characterizing Extreme Phenotypes for Pain Interference in Persons With Chronic Pain Following Traumatic Brain Injury: A NIDILRR and VA TBI Model Systems Collaborative Project. *J Head Trauma Rehabil*. 2023 Nov 6. doi: 10.1097/HTR.0000000000000909. Epub ahead of print. PMID: 38032832.

Hoffman JM, Ketchum JM, Agtarap S, Dams-O'Connor K, **Hammond FM**, Martin AM, Sevigny M, Walker WC, Harrison-Felix C, Zafonte R, Nakase-Richardson R. Characterizing Extreme Phenotypes for Perceived Improvement From Treatment in Persons With Chronic Pain Following Traumatic Brain Injury: A NIDILRR and VA TBI Model Systems Collaborative Project. *J Head Trauma Rehabil*. 2023 Nov 6. doi: 10.1097/HTR.0000000000000905. Epub ahead of print. PMID: 38032837.

Katta-Charles S, Adams LM, Chiaravalloti ND, **Hammond FM**, Perrin PB, Rabinowitz AR, Venkatesan UM, Weintraub AH, Bombardier CH. Depression, Anxiety, and Suicidality in Individuals With Chronic Traumatic Brain Injury Before and During the COVID-19 Pandemic: A National Institute on Disability, Independent Living, and Rehabilitation Research Traumatic Brain Injury Model Systems Study. *Arch Phys Med Rehabil*. 2023 Apr;104(4):619-630. doi: 10.1016/j.apmr.2022.10.017. Epub 2023 Jan 9. PMID: 36632965; PMCID: PMC9827731.

Katta-Charles, S., Ivanhoe, CB., Russell, ME., Reed, E. Inpatient Rehabilitation Following Traumatic Brain Injury: Unique care and benefits of inpatient rehabilitation facilities compared with other settings. *Practical Neurology*. April 2023.

<https://practicalneurology.com/articles/2023-apr/inpatient-rehabilitation-following-traumatic-brain-injury>

Ketchum JM, Hoffman JM, Agtarap S, **Hammond FM**, Martin AM, Walker WC, Zafonte R, Harrison-Felix C, Nakase-Richardson R. Relationship Between Extreme Pain Phenotypes and Psychosocial Outcomes in Persons With Chronic Pain Following Traumatic Brain Injury: A NIDILRR and VA TBI Model Systems Collaborative Project. *J Head Trauma Rehabil.* 2023 Nov 6. doi: 10.1097/HTR.0000000000000908. Epub ahead of print. PMID: 38032831.

Klyce DW, Kritzianel M, Alexander E, **Neumann DM**, **Hammond FM**, Sander AM, Bogner JA, Bushnik T, Chung JS, Finn JA. Perceived Care Partner Burden at 1-Year Post Injury and Associations with Emotional Awareness, Functioning, and Empathy after Traumatic Brain Injury: A TBI Model Systems Study. *Neurorehabilitation* 2023;52(1):59-69. DOI: 10.3233/nre-220128. PMID: 36617759.

Kroenke K, Corigan JD, Ralston RK, Zafonte R, Brunner RC, Giacino JT, Hoffman JM, Esterov D, Cifu DX, Mellick DC, Bell K, Scott SG, Sander AM, **Hammond FM**. Effectiveness of Care Models for Chronic Disease Management: A Scoping Review of Systematic Reviews. *PM&R*. First published: 17 June 2023. <https://doi.org/10.1002/pmrj.13027>

LoBue C, Schaffert J, Dams-O'Connor K, Taiwo Z, Sander A, Venkatesan UM, O'Neil-Pirozzi TM, **Hammond FM**, Wilmoth K, Ding K, Bell K, Munro Cullum C. Identification of Factors in Moderate-Severe TBI Related to a Functional Decline in Cognition Decades After Injury. *Arch Phys Med Rehabil.* 2023 May 7:S0003-9993(23)00285-X. doi: 10.1016/j.apmr.2023.04.017. Epub ahead of print. PMID: 37160187.

Marwitz JH, Perera RA, Klyce DW, Abbasi K, Bergquist TF, **Neumann D**, Agtarap SD, Lengenfelder J, **Hammond FM**, Dreer LE. Caregiver resilience following traumatic brain injury: Findings at six months postinjury. *Rehabilitation Psychology.* 2023 Jun 19. <https://doi.org/10.1037/rep0000503> Epub ahead of print. PMID: 37338441.

Matre, M., Johansen, T., Olsen, A., Tornås, S., Martinsen, AC., Lund, A. Becker, F., Brunborg, C., Spikman, J., Ponsford, J., **Neumann, D.**, McDonald, S. and Løvstad, M. A protocol for the development and validation of a virtual reality-based clinical test of social cognition. *BMC Digital Health.* 1, 34 (2023).

Neumann, D., Backhaus, S. B., Jang, J., Bhamadipalli, S., Winegardner, J., **Helton, B., & Hammond, F.** (2023). Intervention to change attributions that are negative: A feasibility study on reducing anger after brain injury. *Journal of Emotion and Psychopathology*, 1(1), 72–89. <https://doi.org/10.55913/joep.v1i1.5>

O'Neil-Pirozzi TM, Sevigny M, Pinto SM, **Hammond FM**, Juengst SB. Early Factors Predictive of Extreme High and Low Life Satisfaction 10 Years Post-Moderate to Severe Traumatic Brain Injury. *J Head Trauma Rehabil.* 2023 Feb 28. doi: 10.1097/HTR.0000000000000860. Epub ahead of print. PMID: 36854110.

Rich, TJ, Pylarinos, M, Parrott, D., Chen, P. Prism Adaptation Treatment for Right-Sided and Left-Sided Spatial Neglect: A Retrospective Case-Matched Study, *Archives of Rehabilitation Research and Clinical Translation*, 2023, 100263, ISSN 2590-1095, doi.org/10.1016/j.arrct.2023.100263.

Sander AM, Christensen K, Loyo K, Williams M, Leon-Novelo L, Ngan E, Agtarap S, Martin AM, **Neumann D, Hammond FM**, Hanks R, Hoffman J. Coping With Chronic Pain After Traumatic Brain Injury: Role of Race/Ethnicity And Impact On Participation Outcomes In A TBI Model Systems Sample. *Arch Phys Med Rehabil*. 2023 Mar 24:S0003-9993(23)00163-6. doi: 10.1016/j.apmr.2023.03.003. Epub ahead of print. PMID: 36966956.

Sander AM, Pappadis MR, Bushnik T, Chiaravalloti ND, Driver S, Hanks R, Lercher K, **Neumann D**, Rabinowitz A, Seel RT, Weber E, Ralston RK, Corrigan J, Kroenke K, **Hammond FM**. An Umbrella Review of Self-Management Interventions for Health Conditions With Symptom Overlap With Traumatic Brain Injury. *J Head Trauma Rehabil*. 2023 Jun 9. doi: 10.1097/HTR.0000000000000863. Epub ahead of print. PMID: 37294622.

Sander AM, Williams M, Loyo K, Leon-Novelo L, Ngan E, **Neumann D**, Agtarap S, Martin AM, Hoffman J, Christensen K, Hanks R, **Hammond FM**. Disparities in Chronic Pain Experience and Treatment History Among Persons With Traumatic Brain Injury: A Traumatic Brain Injury Model Systems Study. *J Head Trauma Rehabil*. 2023 Mar-Apr 01;38(2):125-136. doi: 10.1097/HTR.0000000000000870. PMID: 36883895.

Snider SB, Temkin NR, Barber J, Edlow BL, Giacino JT, **Hammond FM**, Izzy S, Kowalski RG, Markowitz AJ, Rovito CA, Shih SL, Zafonte RD, Manley GT, Bodien YG; TRACK-TBI Investigators. Predicting Functional Dependency in Patients with Disorders of Consciousness: A TBI-Model Systems and TRACK-TBI Study. *medRxiv* [Preprint]. 2023 Mar 15:2023.03.14.23287249. doi: 10.1101/2023.03.14.23287249. PMID: 36993195; PMCID: PMC10055467.

Snider SS, Temkin NR, Barber J, Edlow BL, Giacino JT, **Hammond FM**, Izzy S, Kowalski RG, Markowitz AJ, Rovito CA, Shih SL, Zafonte RD, Manley GT, Bodien YB, and the TRACK-TBI Investigators. Predicting Functional Dependency in Patients with Disorders of Consciousness: A TBI-Model Systems and TRACK-TBI Study. *Ann Neurol*. 2023 Dec;94(6):1008-1023. doi: 10.1002/ana.26741. Epub 2023 Oct 5. PMID: 37470289.

Sodders MD, Martin AM, Coker J, **Hammond FM**, Hoffman JM. Acupuncture use for pain after Traumatic Brain Injury. Brain Injury: A NIDILRR Traumatic Brain Injury Model Systems cohort study. *Brain Inj*. 2023 Mar 30:1-9. doi: 10.1080/02699052.2023.2187088. Epub ahead of print. PMID: 36998180.

Swank C, Esterov D, Bennett M, **Hammond FM**, Dams-O'Connor K. Relative contribution of acute cognitive and motor functioning on community integration 1 year after moderate-severe

TBI. *Brain Inj.* 2023 May 10:1-10. doi: 10.1080/02699052.2023.2209738. Epub ahead of print. PMID: 37165639.

Venkatesan UM, Adams LM, Rabinowitz AR, Agtarap S, Bombardier CH, Bushnik T, Chiaravalloti ND, Juengst SB, **Katta-Charles S**, Perrin PM, Pinto SM, Weintraub A, Whiteneck GG, **Hammond FM**. 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 Feb 1:S0003-9993(23)00084-9. doi: 10.1016/j.apmr.2023.01.009. Epub ahead of print. PMID: 36736808; PMCID: PMC9889276.

Walker WC, Perera RA, **Hammond FM**, Zafonte R, **Katta-Charles S**, Abbasi KW, Hoffman JM. What Are the Predictors for and Psychosocial Correlates of Chronic Headache After Moderate to Severe Traumatic Brain Injury? *J Head Trauma Rehabil.* 2023 Nov 6. doi: 10.1097/HTR.0000000000000914. Epub ahead of print. PMID: 38032830

Yakhkind A, Niznick N, Bodien Y, **Hammond FM**, Katz D, Luaute J, McNett M, Naccache L, O'Brien K, Schnakers C, Sharshar T, Slomine BS, Giacino JT; Curing Coma Campaign and its Contributing Members. Common Data Elements for Disorders of Consciousness: Recommendations from the Working Group on Behavioral Phenotyping. *Neurocrit Care.* 2023 Sep 19. doi: 10.1007/s12028-023-01844-9. Epub ahead of print. PMID: 37726548.

2022 PUBLICATIONS

Abouzeid CA, Wolfe AE, Ni P, Carrougher GJ, Gibran NS, **Hammond FM**, Holavanahalli R, McMullen KA, Roaten K, Suman O, Stewart BT, Wolf S, Zafonte R, Kazis LE, Ryan CM, Schneider JC. Are Burns a Chronic Condition? Examining Patient Reported Outcomes up to 20 Years after Burn Injury - A Burn Model System National Database Investigation. *J Trauma Acute Care Surg.* 2022 Jan 25. doi: 10.1097/TA.0000000000003547. PMID: 35081598.

Anders, D. M., Logan, D. M., Shelton, J. A., Walters, G. J., Perry, S., Carter, K. D., **Malec, J.F.** (2022, in press). An observational cohort study of the role of level of effort in post-acute brain injury rehabilitation. *Arch Phys Med Rehab*, doi.org/10.1016/j.apmr.2022.07.013.

Chen, P., Hreha, K., Gonzalez-Snyder, C., Rich, T. J., Gillen, R. W., **Parrott, D.**, & Barrett, A. M. (2022). Impacts of Prism Adaptation Treatment on Spatial Neglect and Rehabilitation Outcome: Dosage Matters. *Neurorehabilitation and Neural Repair*.
[doi:10.1177/15459683221107891](https://doi.org/10.1177/15459683221107891).

Cotner BA, Nakase-Richardson R, O'Connor DR, Silva MA, **Hammond FM**, Carlozzi NE, Finn JA, Chung J, Hoffman JM: Barriers and Facilitators to Accessing Rehabilitation Health Care: A Veterans Affairs TBI Model System Qualitative Study. *Archives of Physical Medicine and Rehabilitation* Published October 17, 2022. <https://doi.org/10.1016/j.apmr.2022.09.020>

Fisher, L. B., Curtiss, J. E., Klyce, D. W., Perrin, P. B., Juengst, S. B., Gary, K. W., Niemeier, J. P., **Hammond, F. M.**, Bergquist, T. F., Wagner, A. K., Rabinowitz, A. R., Giacino, J. T., & Zafonte, R. D. Using Machine Learning to Examine Suicidal Ideation After TBI: A TBI Model Systems National Database Study. *American Journal of Physical Medicine & Rehabilitation*. 2022 Jun. DOI: 10.1097/phm.0000000000002054. PMID: 35687765.

Garcia, P., Peramo, J., **Katta-Charles, S.**, Moreno, F. Rehabilitation Disparities: Examining the Micro and Macro-level barriers among ethnic and racial populations recovering from a brain injury. *Health Equity in Traumatic Brain Injury, BIP*. 2022 Sep;19(2):22-23.

Hamilton JA, Ketchum JM, **Hammond FM**, Peterson MD, Zasler ND, Eapen BC, Adamson MM, Galhotra PP, Harris O, Nakase-Richardson R. Comparison of Veterans Affairs and Civilian Traumatic Brain Injury Model Systems Participants with Disorders of Consciousness. *Brain Injury*. <https://doi.org/10.1080/02699052.2022.2158226>

Lercher K, Kumar RG, **Hammond FM**, Zafonte R, Hoffman J, Walker W, Verduzco-Gutierrez M, Dams-O'Connor K. Rehospitalization Update. *J Head Trauma Rehab ePAP*: September 13, 2022.

Kumar RG, Ketchum JM, **Hammond FM**, Novack TA, O'Neil-Pirozzi TM, Silva MA, Dams-O'Connor K. Health and cognition among adults with and without Traumatic Brain Injury: A matched case-control study. *Brain Inj*. 2022 Feb 10:1-9. doi: 10.1080/02699052.2022.2034190. PMID: 35143349.

Kumar RG, Zhong X, Whiteneck GG, Mazumdar M, **Hammond FM**, Egorova N, Lercher K, Dams-O'Connor K. Development and Validation of a Functionally Relevant Comorbid Health Index in Adults Admitted to Inpatient Rehabilitation for Traumatic Brain Injury. *J Neurotrauma*. 2022 Jan;39(1-2):67-75. doi: 10.1089/neu.2021.0180. Epub 2021 Nov 24. PMID: 34779252; PMCID: PMC8917887.

Maas AIR, Menon DK, Manley GT, Abrams M, Åkerlund C, Andelic N, Aries M, Bashford T, Bell MJ, Bodien YG, Brett BL, Büki A, Chesnut RM, Citerio G, Clark D, Clasby B, Cooper DJ, Czeiter E, Czosnyka M, Dams-O'Connor K, De Keyser V, Diaz-Arrastia R, Ercole A, van Essen TA, Falvey É, Ferguson AR, Figaji A, Fitzgerald M, Foreman B, Gantner D, Gao G, Giacino J, Gravesteyn B, Guiza F, Gupta D, Gurnell M, Haagsma JA, **Hammond FM**, Hawryluk G, Hutchinson P, van der Jagt M, Jain S, Jain S, Jiang JY, Kent H, Koliass A, Kompanje EJO, Lecky F, Lingsma HF, Maegele M, Majdan M, Markowitz A, McCrea M, Meyfroidt G, Mikolić A, Mondello S, Mukherjee P, Nelson D, Nelson LD, Newcombe V, Okonkwo D, Orešič M, Peul W, Pisică D, Polinder S, Ponsford J, Puybasset L, Raj R, Robba C, Røe C, Rosand J, Schueler P, Sharp DJ, Smielewski P, Stein MB, von Steinbüchel N, Stewart W, Steyerberg EW, Stocchetti N, Temkin N, Tenovuo O, Theadom A, Thomas I, Espin AT, Turgeon AF, Unterberg A, Van Praag D, van Veen E, Verheyden J, Vyverre TV, Wang KKW, Wiegers EJA, Williams WH, Wilson L, Wisniewski SR, Younsi A, Yue J, Yuh EL, Zeiler FA, Zeldovich M, Zemek R; InTBIR Participants and Investigators. Traumatic brain injury: progress and challenges in

prevention, clinical care, and research. *Lancet Neurol.* 2022 Sep 29;S1474-4422(22)00309-X. doi: 10.1016/S1474-4422(22)00309-X. Epub ahead of print. PMID: 36183712.

Mainali, S, Aiyagari, V, Alexander, S, Bodien Y, Boerwinkle, V, Boly M, Brown E, Brown J, Claasen J, Edlow BL, Fink EL, Fins JJ, Foreman B, Frontera J, Geocadin RG, Giacino J, Gilmore EJ, Gosseries O, **Hammond F**, Helbok R, Hemphill JC, Hirsch K, Kim K, Laureys S, the Curing Coma Campaign collaborators. Proceedings of the Second Curing Coma Campaign NIH Symposium: Challenging the Future of Research for Coma and Disorders of Consciousness. *Neurocrit Care* 37, 326–350 (2022) <https://doi.org/10.1007/s12028-022-01505-3>

Neumann, D., Juengst, S.B., Bombardier, C.H., Finn, J.A., Miles, S., Zhang, Y., Kennedy, R.E., Rabinowitz, A.R., Thomas, A., Dreer, L.E. Anxiety Trajectories the First 10 Years Following a Traumatic Brain Injury (TBI): A TBI Model Systems Study: A TBIMS Study. *Arch Phys Med Rehabil.* Volume 103, Issue 11, November 2022 Pages 2105-2113 (Featured Article) <https://doi.org/10.1016/j.apmr.2022.07.002>

Neumann D, Mayfield R, Sander AM, Jang JH, Bhamidipalli SS, Hammond FM. Examination of Social Inferencing Skills in Men and Women After Traumatic Brain Injury. *Arch Phys Med Rehabil.* 2022 May;103(5):937-943. doi: 10.1016/j.apmr.2021.10.028. PMID: 34861235.

O'Neil-Pirozzi TM, Pinto SM, Sevigny M, **Hammond FM**, Juengst SB, Bombardier CH. Factors Associated With High and Low Life Satisfaction 10 Years After Traumatic Brain Injury. *Arch Phys Med Rehabil.* 2022 Feb 22;S0003-9993(22)00230-1. doi: 10.1016/j.apmr.2022.01.159. Epub ahead of print. PMID: 35202582.

Parrott DR, Trexler LE. Traumatic Brain Injury in Indiana's Correctional System: Prevalence and Recidivism. *J Correct Health Care.* 2022 Oct;28(5):308-314. doi: 10.1089/jchc.21.01.0003.

Perrin PB, Klyce DW, Fisher LB, Juengst SB, **Hammond FM**, Gary KW, Niemeier JP, Bergquist TF, Bombardier CH, Rabinowitz AR, Zafonte RD, Wagner AK. Relations Among Suicidal Ideation, Depressive Symptoms, and Functional Independence During the 10 Years After Traumatic Brain Injury: A Model Systems Study. *Arch Phys Med Rehabil.* 2022 Jan;103(1):69-74. doi: 10.1016/j.apmr.2021.07.790. Epub 2021 Aug 6. PMID: 34364849.

Rich TJ, Hreha KP, Barrett AM, **Parrott D**, Chen P. The Effect of Missed Items on the Reliability of the Kessler Foundation Neglect Assessment Process. *Arch Phys Med Rehabil.* 2022 Mar. DOI: 10.1016/j.apmr.2022.01.165. PMID: 35304121.

Snider SB, Kowalski RG, **Hammond FM**, Izzy S, Shih SL, Rovito C, Edlow BL, Zafonte RD, Giacino JT, Bodien YG: Comparison of common outcome measures for assessing independence in patients diagnosed with disorders of consciousness: A Traumatic Brain Injury Model Systems Study. *J Neurotrauma* 2022 Jun 20. doi: 10.1089/neu.2022.0076. Epub ahead of print. PMID: 35531895.

Trexler LE, Parrott D. The impact of resource facilitation on recidivism for individuals with traumatic brain injury: A pilot, non-randomized controlled study. *Brain Injury*. 2022 Mar:1-8. DOI: 10.1080/02699052.2022.2051207. PMID: 35285357.

Trexler LE, Zappala G. Keeping the brain in cognitive rehabilitation: *The relevance of functional neuroanatomy and neuropathology*. In R Eberle and A Shapiro-Rosenbaum (Eds), *Cognitive Rehabilitation Manual and Textbook*, 2nd Edition. American Congress of Rehabilitation Medicine: Reston, Virginia, 2022.

Vos L, Ngan E, Novelo LL, Williams MW, **Hammond FM**, Walker WC, Clark AN, Lopez APO, Juengst SB, Sherer M. Predictors of Missed Follow-up Visits in the National Traumatic Brain Injury Model Systems Cohort Study. *Arch Phys Med Rehabil*. 2022 Jun 13:S0003-9993(22)00411-7. doi: 10.1016/j.apmr.2022.05.003. Epub ahead of print. PMID: 35709982.

Weintraub A, Okonkwo D, Steinberg G, Kawabori M, Yasuhara T, Kim A, Kondzioka D, Achrol A, Nejadnik B, Bates D, McAllister P. Efficacy and Safety Outcomes for Persons with Chronic Motor Deficits Related to Traumatic Brain Injury: Final Analysis of the Phase 2 STEMTRA Trial. *J Neurotrauma*, Abstracts from 39th Annual NNS proceedings. Vol. 39, No 11-12, June 3, 2022. <https://doi.org/10.1089/neu.2022.29126.abstracts>.

2021 PUBLICATIONS

Bergquist, TF., Rosenbaum, A., Eberle, RD. & **Trexler, L.** (2021). *Cognitive Rehabilitation*. In N Zasler, D Katz and R Zafonte (Eds.), *Brain Injury Medicine*, 3rd Edition. Demos Medical, New York, NY.

Braunling-Mcmorrow, D., **Malec, J. F.**, Groff, A. R., & Salisbury, D. B. (2021). *Posthospital Rehabilitation*. In N. D. Zasler, D. I. Katz, R. D. Zafonte, D. B. Arciniegas, M. R. Bullock, **F. M. Hammond**, J. S. Kreutzer, R. Nakase Richardson, & T. K. Watanabe (Eds.), *Brain Injury Medicine* (pp. 1208-1222). New York: Springer Publishing Company.

Brooks JC, Shavelle RM, Strauss DJ, **Hammond FM**, Harrison-Felix CL. Life expectancy of 1-year survivors of traumatic brain injury, 1988-2019: Updated results from the TBI Model Systems. *Arch Phys Med Rehabil* 2021, Published online August 28, 2021.

Fahey M, Brazg G, **Henderson CE, Plawecki A**, Lucas EH, Reisman DS, Schmit BD, **Hornby TG**. The value of high intensity locomotor training applied to patients with acute-onset neurological injury. *Arch Phys Med Rehabil*. 6 Feb 2021:S0003-9993(21)00146-5. doi:10.1016/j.apmr.2021.02.001. PMID: 33561437

Fann JR, Hart T, Ciol MA, Moore M, Bogner J, Corrigan JD, Dams-O'Connor K, Driver S, Dubiel R, **Hammond FM**, Kajankova M, Watanabe TK, Hoffman JM. Improving transition from inpatient rehabilitation following traumatic brain injury: Protocol for the BRITE pragmatic

comparative effectiveness trial. *Contemporary Clinical Trials*. 2021 Feb;104:106332. doi: 10.1016/j.cct.2021.106332.

Hammond FM, Davis CS, Hirsch MA, Snow JM, Kropf ME, Schur L, Kruse D, Ball AM. Qualitative Examination of Voting Empowerment and Participation Among People Living With Traumatic Brain Injury. *Arch Phys Med Rehabil*. 2021 Jun;102(6):1091-1101. doi: 10.1016/j.apmr.2020.12.016. Epub 2021 Jan 23. PMID: 33493439.

Hammond FM, Guerrier T, Rickard S: Who will care for my family member with brain injury when I am no longer able to provide care?: Securing the future through planning. *Arch Phys Med Rehabil*. 19 Jan 2021. <https://doi.org/10.1016/j.apmr.2020.11.008>

Hammond FM, Katta-Charles S, Russell M, Zafonte RD, Claassen J, Wagner A, Puybasset L, Egawa S, Laureys S, Diringier M, Stevens R. Research Priorities for Prognostic Modeling and Trajectory Analysis in Patients with Disorders of Consciousness. *Neurocritical Care*. 2021 July 35:S55–S67 <https://doi.org/10.1007/s12028-021-01289-y>

Hammond FM, Katta-Charles S: *Cranial Nerve Palsies*, Manual of Traumatic Brain Injury, 3rd ed. Ed: FS Zollman. Demos Publishing, 2021, pages 370 - 376.

Hammond FM, Katta-Charles S: *Cranial Nerve Disorders*, Eds: Zasler N, Katz D, Zafonte R, Arciniegas D, Bullock R, Kreutzer J, **Hammond FM**, Richardson R, Watanabe T: Brain Injury Medicine: Principles and Practice, 3rd ed, Demos Publishing, 2021.

Hammond FM, Malec JF, Corrigan JD, Whiteneck GG, Hart T, Dams-O'Connor K, Novack TA, Bogner J, Dahdah MN, Eagye CB, Sevigny M, Ketchum JM: Patterns of Functional Change 5 to 10 years Following Moderate-Severe Traumatic Brain Injury. *J Neurotrauma* 2021 Jun 1;38(11):1526-1534. doi: 10.1089/neu.2020.7499. Epub 2021 Apr 29. PMID: 33779295; PMCID: PMC8126422.

Hammond, F.M., Sevigny, M., **Backhaus, S.**, **Neumann, D.**, Corrigan, J.D., **Katta-Charles, S.**, and Gazett, H. Marital Stability over 10 years following Traumatic Brain Injury. *J Head Trauma Rehabil*. 2021 Jul-Aug 01;36(4):E199-E208. doi: 10.1097/HTR.0000000000000674. PMID: 34197359.

Hammond FM, Zafonte RD, Tang Q, Jang JH. Carbamazepine for Irritability and Aggression after Traumatic Brain Injury: A Randomized, Placebo-Controlled Study. *J Neurotrauma*. 9 Mar 2021. doi: 10.1089/neu.2020.7530. PMID: 33563104.

Kowalski RG, **Hammond FM**, Weintraub AH, Nakase-Richardson R, Zafonte RD, Whyte J, Giacino JT. Recovery of Consciousness and Functional Outcome in Moderate and Severe Traumatic Brain Injury. *JAMA Neurol*. 1 Mar 2021 doi:10.1001/jamaneurol.2021.0084.

Loghmani, MT, **Tobin, C.**, Quigley, C, Fennimore, A., Soft Tissue Manipulation May Attenuate Inflammation, Modulate Pain, and Improve Gait in Conscious Rodents with Induced Low Back Pain. *Military Medicine*, 2021 Jan-Feb. 186(S1):E506-514, doi.org/10.1093/milmed/usaa259.

Martin AM, Almeida EJ, Starosta AJ, **Hammond FM**, Hoffman JM, Schwartz DJ, Fann JR, Bell KR, Nakase-Richardson R. The Impact of Opioid Medications on Sleep Architecture and Nocturnal Respiration During Acute Recovery From Moderate to Severe Traumatic Brain Injury: A TBI Model Systems Study. *J Head Trauma Rehabil.* 2021, 36(5), 374- 387.

<https://doi.org/10.1097/HTR.0000000000000727>

Miles SR, Brenner LA, **Hammond FM**, **Neumann, D.**, Silva, M.A., Tang, X., Kajankova, M., Dillahunt-Aspillaga, C., and Nakase-Richardson, R. Response to Letter to the Editor about: Posttraumatic Stress Disorder Symptoms Contribute to Staff Perceived Irritability, Anger, and Aggression after TBI in a Longitudinal Veteran Cohort: A VA TBI Model Systems Study. *Arch Phys Med Rehabil.* 24 Feb 2021 <https://doi.org/10.1089/neu.2020.7451>

Miles SR, **Hammond FM**, **Neumann D**, Silva, M., C Tang, X., Kajankova, M., Dillahunt-Aspillaga, C., and Nakase-Richardson R. Evolution of Irritability, Anger, and Aggression after Traumatic Brain Injury: Identifying and Predicting Subgroups. *J Neurotrauma.* 20 Jan 2021. <https://doi.org/10.1089/neu.2020.7451>

Miles SR, **Hammond FM**, Neumann D, Silva MA, Yang X, Kajankova M, Dillahunt-Aspillaga C, Nakase-Richardson R. Evolution of Irritability, Anger, and Aggression after Traumatic Brain Injury: Identifying and Predicting Subgroup. *J Neurotrauma.* 11 March 2021.

Miles SR, Silva, M., **Neumann D**, Dillahunt-Aspillaga, C., Corrigan, J., Tang, X., Eapen, B., Nakase-Richardson R. Demographic and Mental Health Predictors of Arrests 1-10 Years Post-TBI: A Veterans Affairs TBI Model Systems Study. *J Head Trauma Rehabil.* 27 Jan 2021 - Volume PAP - Issue -doi: 10.1097/HTR.0000000000000640.

Monden KR, Gassaway J, Eagye CB, **Hammond FM**, Kolakowsky-Hayner SA, Whiteneck GG: Relationship of Patient Characteristics and Inpatient Rehabilitation Services 5-year Outcomes Following Spinal Cord Injury: A Follow Up Of the SCIREhab Project. *J Spinal Cord Med.* 11 Mar 2021

Naz, S.I., **Neumann, D.**, Mueid, R., Christopher, L., Using Machine Learning Classification to Predict Social Inferencing Performance from Eyetracking Data in Participants with and without Brain Injury. *Arch Phys Med Rehabil.* Vol 102, Issue 10, E27. 10/01/21.

<https://doi.org/10.1016/j.apmr.2021.07.536>

Neumann, D., Zupan, B., and Willer, B. Cognitive Rehabilitation for Emotion Recognition Deficits after Brain Injury. *Brain Injury Professional.* 2021, Volume 17, Issue 4.

Neumann, D., Miles, S.R., Sander, A., and Greenwald, B. [Understanding and Coping With Irritability, Anger, and Aggression After TBI.](#) MSKTC TBI Factsheet.

Niemeier JP, **Hammond FM**, O'Neil-Pirozzi TM, Venkatesan UM, Bushnik T, Zhang Y, Kennedy RE: Refining our Understanding of Traumatic Brain Injury in the Elderly Using Age-Defined Cohorts: A TBI Model Systems Database Study. *Brain Injury* Published online Sept 13, 2021.

Rabinowitz AR, Kumar R, Sima A, Venkatesan UM, Juengst S, O'Neil-Pirozzi TM, Watanabe T, Goldin Y, **Hammond FM**, Dreer L. Aging with Traumatic Brain Injury: Deleterious Effects of Injury Chronicity Are Most Pronounced in Later Life. *J Neurotrauma*. 2021 Jun 3. doi: 10.1089/neu.2021.0038. Epub ahead of print. PMID: 34082606.

Sander A, Ketchum JM, Lequerica AH, Pappadis MR, Bushnik T, **Hammond FM**, Sevigny. Primary Language and Participation Outcomes in Hispanics With Traumatic Brain Injury: A Traumatic Brain Injury Model Systems Study. *J Head Trauma Rehabil*. 22 Feb 2021. doi: 10.1097/HTR.0000000000000655.

Zasler N, Katz D, Zafonte R, Arciniegas D, Bullock R, Kreutzer J, **Hammond FM**, Richardson R, Watanabe T (Eds.): *Brain Injury Medicine: Principles and Practice*, 3rd ed, Demos Publishing, 2021.

2020 PUBLICATIONS

Cotner BA, O'Connor DR, Silva MA, Carlozzi NE, Finn JA, **Hammond FM**, Hoffman JM, Chung JS, Nakase-Richardson R. (2020). Barriers and Facilitators for Veterans with TBI to Access Health Care: A VA TBI Model System Study. *Arch Phys Med Rehabil*, Vol. 101, Issue 12, e131.

Cotner BA, O'Connor DR, Silva MA, Miles S, Dams-O'Connor K, **Hammond FM**, Carlozzi NE, Arciniegas DB, Tang X, Nakase-Richardson R. (2020). Rehabilitation Needs of Veterans and Service Members with Traumatic Brain Injury: A Qualitative Study. *Arch Phys Med Rehabil*, Vol. 101, Issue 12, e131.

Dillahunt-Aspillaga, C, Bradley, S, Ottomanelli-Slone, L, **Trexler, L**, **Malec J**, Butterfoss, F et Al. (2020). Using Coalition Building as a Tool to Implement Resource Facilitation for Veterans with Traumatic Brain Injury: Implications for Rehabilitation Counselors. *J Rehabil*, 86 (3), 42-49.

Giacino JT, Whyte J, Nakase-Richardson R, Katz D, Arciniegas D, Blum S, Day K, Greenwald B, **Hammond FM**, Pape TB, Rosenbaum A, Seel R, Weintraub A, Yablon S, Zafonte R, Zasler N. Minimal Competency Recommendations for Programs that Provide Rehabilitation Services for Persons with Disorders of Consciousness: A Position Statement of the American Congress of Rehabilitation Medicine and the National Institute on Disability Independent Living and Rehabilitation Research Traumatic Brain Injury Model Systems. *Archives Phys Med Rehabil*. 2020 Feb 20. DOI:<https://doi.org/10.1016/j.apmr.2020.01.013>.

Greenwald B, **Neumann D**, Dubiel R. Loss of Smell or Taste after Traumatic Brain Injury.

MSKTC TBI Factsheet, 2020 Jan.

Hammond FM, Malec JF, Corrigan JD, Whiteneck GG, Hart T, Dams-O'Connor K, Novack TA, Bogner J, Dahdah MN, Eagye CB, Sevigny M, Ketchum JM: Functional Change From 5 to 10 years Following Moderate-Severe Traumatic Brain Injury. *J Neurotrauma*. Published Online:13 November 2020 <https://doi.org/10.1089/neu.2020.7287>.

Hammond FM, Waldman W, Katta-Charles S, Littell K (2020). Getting the Most Out of Your Telemedicine Physician Visits. *Arch Phys Med Rehabil* 2020 December 13. <https://authors.elsevier.com/a/1cEYnwCg4Gbr>.

Hammond FM, Hirsch MA, Davis CS, Snow JN, Kropf M, Karlawish J: Voting is my super power! Voting Tips for People Living with Disability. *Arch Phys Med Rehabil* <https://www.archives-pmr.org/action/showPdf?pii=S0003-9993%2820%2930168-4>

Hammond FM, Hirsch MA, Davis CS, Snow JN, Kropf M, Karlawish J: Voting is my super power! Voting Tips for People Living with Disability. Brain Injury Association of America: Voting is my Super Power. August 22, 2020: <https://www.biausa.org/public-affairs/media/voting-is-my-super-power-voting-tips-for-people-living-with-brain-injury>.

Hammond FM, Ketchum JM, Dams-O'Connor K, Corrigan JD, Miller AC, Haarbauer-Krupa J, Faul M, **Trexler LE**, Harrison-Felix C: Mortality Secondary to Unintentional Poisoning after Inpatient Rehabilitation for Traumatic Brain Injury. *J Neurotrauma*. Published Online: 8 July 2020 <https://doi.org/10.1089/neu.2020.7038>.

Hammond FM, Ketchum JM, Dams-O'Connor K, Corrigan JD, Miller AC, Haarbauer-Krupa J, Faul M, **Trexler LE**, Harrison-Felix C: MSKTC TBI Quick Reviews: Mortality Secondary to Unintentional Poisoning after Inpatient Rehabilitation among Individuals with Moderate to Severe Traumatic Brain Injury. <https://msktc.org/tbi/quick-reviews/mortality-secondary-unintentional-poisoning>.

Hammond FM, Perkins SM, Nakase Richardson R, Corrigan JD, Brown A, O'Neil-Pirozz TM, Zasler N, Greenwald B: Functional Change from 5 to 15 Years Following Traumatic Brain Injury. *J Neurotrauma*. Published Online: 10 Sep 2020 <https://doi.org/10.1089/neu.2020.7287>

Hawley L, Newman J, **Neumann D**, O'Neil-Pirozzi T. Social Skills after Traumatic Brain Injury. MSKTC TBI Factsheet, 2020 January.

Hawley L, Ibarra S, **Waldman W**, Armstrong T, Iqbal T, **Hammond FM**. (2020) ACRM Chronic Brain Injury Task Force. When your Patient is Living with Brain Injury: A tip card for physicians treating individuals living with chronic brain injury sequelae.

Hummer T, Wood Z, Miller K, Spring J, **Neumann D**. Feasibility of Virtual Reality to Improve Social Perspective Taking in Youth with Disruptive Behavior Disorders. *Biological Psychiatry*. 2020;87(9):S394.

Ibarra S, Parrott D, Waldman W, Hammond FM, Dillahunt-Aspillaga C, Trexler L: Provision of Resource Facilitation Services for Individuals with Acquired Brain Injury across the United States: Results of a 2018 Resource Facilitator Provider Survey. 2020;34(6):732-740. *Brain Inj*. DOI: 10.1080/02699052.2020.1749931

Love J, Hanley S, McFarlane TD, Dixon BE, **Hammond FM**. Increased Risk of Stroke Among Hospitalized and Younger Traumatic Brain Injury Patients. *J Head Trauma Rehabil*. 2019 Nov 8. doi:10.1097/HTR.0000000000000539. [Epub ahead of print]

Katta-Charles SD. Craniofacial neuralgias. *NeuroRehabilitation*. 2020;47(3):299-314. doi: 10.3233/NRE 208004. PMID: 32986621.

Kumar RG, Ketchum JM, Corrigan JD, **Hammond FM**, Sevigny M, Dams-O'Connor K: The Longitudinal Effects of Co-morbid Health Burden on Functional Outcomes for Adults with Moderate-to-Severe Traumatic Brain Injury. *J Head Trauma Rehabil*. 2020 Feb 26. doi: 10.1097/HTR.0000000000000572. [Epub ahead of print]

Mahoney EJ, Silva MA, Reljic T, Dams-O'Connor K, **Hammond FM**, Monden KR, Chung JS, Dillahunt-Aspillaga C, Nakase-Richardson R. Rehabilitation Needs at Five-Years Post-TBI: A VA TBI Model Systems Study. *J Head Trauma Rehabil*. 2020 Nov. DOI: 10.1097/htr.0000000000000629.

Malec JF, Ketchum, JM. A standard method for determining the minimal clinically important difference for rehabilitation measures. *Arch Phys Med Rehabil*, 2020 Jan. DOI:https://doi.org/10.1016/j.apmr.2019.12.008. [Epub ahead of print]

Malec JF. Editorial: An end to ordinal misrule? *Arch Phys Med Rehabil*. 2020 Jan;101(1),166-167, DOI:https://doi.org/10.1016/j.apmr.2019.08.478.

Malec, J. F., Salisbury, D. B., Anders, D., Dennis, L., Groff, A. R., Johnson, M., Murphy, M. P., and Smith, G. T. Response to the COVID-19 pandemic among posthospital brain injury rehabilitation providers. *Arch Phys Med Rehabil*, Published ahead of print: 2020 November 27: DOI:https://doi.org/10.1016/j.apmr.2020.10.137.

Neumann D, Sander A, Perkins S, Bhamidipalli SS, Witwer N, Combs D, **Hammond FM**: Assessing Negative Attributions after Brain Injury with the Ambiguous Intentions Hostility Questionnaire. *J Head Trauma Rehabil*. Volume Publish Ahead of Print, May 27, 2020 doi: 10.1097/HTR.0000000000000581.

Neumann, D., Zupan, B., Sex differences in emotional insight after traumatic brain injury. *Arch Phys Med Rehabil.* 2020 May DOI:10.1016/j.apmr.2020.04.018.

Neumann, D., Sander, A., Perkins, S., Bhamidipalli, S., and **Hammond, F.M.** Assessing Negative Attributions Bias and Related Risk Factors after Brain Injury. *J Head Trauma Rehabil.* Volume Published Ahead of Print, July 2020. DOI: doi: 10.1097/HTR.0000000000000600.

Neumann, D., Mayfield, R., Hammond, F., Sander, A., Bogner, J., Finn, J., & Bushnik, T. (2020). Examining the relationship between chronic pain and alexithymia after traumatic brain injury. *Arch Phys Med Rehabil*, 101(11),e4. <https://doi.org/10.1016/j.apmr.2020.09.007>

Neumann, D., Mayfield, R., Sander, A., **Hammond, F.,** Bhamidipalli, S., & Jang, J. (2020). Does social inferencing differ in men and women after TBI? *Arch Phys Med Rehabil*, 101(11), e14. <https://doi.org/10.1016/j.apmr.2020.09.038>

Neumann, D., Sander, A., Bhamidipalli, S., Jang, J.H, and **Hammond, F.** (2020). Sex Differences in Aggression, Anxiety, and Depression after TBI. *Arch Phys Med Rehabil.* Vol 101, Issue 11, E30. 11/01.2020 DOI: <https://doi.org/10.1016/j.apmr.2020.09.007>

Parrott D, Ibarra S, Pogoda T, Waldman W. What's working? Maintaining Employment After Brain Injury. *Brain Injury Professional: Brain Injury as a Chronic Condition Current State of the Knowledge.* 2019 Dec 22;16(3):22-23.

Sherer M, Katz DI, Bodien YG, Arciniegas DB, Block C, Blum S, Doiron M, Frey K, Giacino JT, Graf MJP, Greenwald B, **Hammond FM,** Kalmar K, Kean J, Kraus MF, Nakase-Richardson R, Pavawalla S, Rosenbaum A, Stuss DT, Yablon SA. (2020). Post-traumatic Confusional State: A Case Definition and Diagnostic Criteria. *Arch Phys Med Rehabil.* 2020 Jul 29:S0003-9993(20)30448-2. 101(11):2041-2050. doi: 10.1016/j.apmr.2020.06.021. Online ahead of print. PMID: 32738198.

Trexler, LE, Corrigan, JD, **Davé, S** and **Hammond, FM.** (2020). Recommendations for prescribing opioids for people with traumatic brain injury. *Arch Phys Med Rehabil.* 101: 2033-40. <https://doi.org/10.1016/j.apmr.2020.07.005>

Whiteneck GG, Ketchum JM, Almeida EJ, Goldstein R, Brown AW, Corrigan JD, **Hammond FM,** Weintraub AW, Tefertiller C. (2020). Developing an Index of Medical Conditions Associated with Outcomes After Moderate to Severe Traumatic Brain Injury. *J Neurotrauma.* 2020 Nov 30. doi: 10.1089/neu.2020.7366. Epub ahead of print. PMID: 33256501.

Whyte J, Giacino JT, Heinemann AW, Bodien Y, Hart T, Sherer M, Whiteneck GG, Mellick D, **Hammond FM,** Semik P, Rosenbaum A, Richardson RN. Brain Injury Functional Outcome Measure (BI-FOM): A Single Instrument Capturing the Range of Recovery in



Moderate-Severe Traumatic Brain Injury. Arch Phys Med Rehabil. 2020 Oct 3:S0003-9993(20)30968-0. doi: 10.1016/j.apmr.2020.09.377. Epub ahead of print. PMID: 33022273