**CURRICULUM VITAE**

**Dane B. Cook**

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**FORMAL EDUCATION**

# University of Medicine and Dentistry of New Jersey – New Jersey Medical School

# Post-Doctoral Fellowship Neuroscience 2001

University of Georgia

* Doctor of Philosophy Exercise Science 1998
* Master of Arts Exercise Science 1995

Arizona State University

* Bachelor of Science Psychology 1992

##### POSITIONS HELD

Professor, Department of Kinesiology 2015-present

University of Wisconsin – Madison, Wisconsin

Associate Professor, Department of Kinesiology 2012-present

University of Wisconsin – Madison, Wisconsin

Assistant Professor, Department of Kinesiology 2005-present

University of Wisconsin – Madison, Wisconsin

Research Physiologist/ Health Science Specialist 2006-present

William S. Middleton Memorial Veterans Hospital, Madison, Wisconsin

Assistant Director of Research, War Related Illness and Injury Study Center 2005-2006

Veterans Administration Medical Center, East Orange, New Jersey

Adjunct Assistant Professor, Department of Psychology 2005-2005

Rutgers University, Newark, New Jersey

Assistant Professor, Department of Radiology 2002-2005

UMDNJ - NJ Medical School, Newark, New Jersey

Research Physiologist/ Health Science Specialist 2001-2005

Veterans Administration Medical Center, East Orange, New Jersey

Post-doctoral Fellow, Departments of Neuroscience and Anesthesiology 1998- 2001

UMDNJ - New Jersey Medical School, Newark, New Jersey

Research Assistant, Department of Exercise Science 1995-1998

University of Georgia, Athens, Georgia

Teaching Assistant, Department of Exercise Science 1994-1995

University of Georgia, Athens, Georgia

Research Assistant, Department of Exercise Science 1993-1994

University of Georgia, Athens, Georgia

Laboratory Assistant, Department of Exercise Science 1990-1992

Arizona State University, Tempe, Arizona

##### SPECIAL HONORS, AWARDS, RECOGNITIONS & APPOINTMENTS

1997 - Recipient of the **Louise E. Kindig Research Award.** This competitive award is given every two years by the School of Health and Human Performance at the University of Georgia to recognize outstanding research by a graduate student.

1997 - Recipient of an American Pain Society **Young Investigators Award** for travel support to New Orleans, Louisiana. This award is given to young investigators presenting original research at the American Pain Society's national conference.

2003 - Recipient of the American Association for Chronic Fatigue Syndrome **Junior Investigator Award**. This award recognizes outstanding research by young investigators in the field of Chronic Fatigue and Fibromyalgia Syndrome Research.

2003 - Recipient of an American Pain Society's **Young Investigator** Travel Support Award for the annual meeting in Chicago, Illinois. This award is given to young investigators presenting original research at the American Pain Society's national conference.

2004 - Recipient of the **New Investigator** Award for the American College of Sports Medicine. This annual award is given to the exercise science or sports medicine researcher who has made, and who is likely to continue to make, significant contributions to knowledge in basic or clinical exercise science or sports medicine.

2007 – **Certificate of Recognition** from the Department of Veterans Affairs of the State of Wisconsin for research into “Gulf Veterans and Pain”. Presented at the Wisconsin Department of Veterans Affairs Gulf War Illnesses Conference, Madison, WI.

2008 – Achievement of **Fellowship** in the American College of Sports Medicine (FACSM). This is a prestigious distinction in the College and signifies meritorious career contributions to ACSM.

2010 - **Appointment** to the Chronic Fatigue Syndrome Advisory Committee (CFSAC), a Federal Advisory Committee of the Department of Health and Human Services

2011 – Department of Veterans Affairs **Service Award** in recognition of 10 years of dedicated service to the United States Government

2012 – **Honored Instructor Award**, University Housing, University of Wisconsin-Madison. Recognized by students living in University Housing and given in recognition of invaluable contribution to student learning

2014 – **Renewal of Appointment** to the Chronic Fatigue Syndrome Advisory Committee (CFSAC), a Federal Advisory Committee of the Department of Health and Human Services

2015 – Named **Director** of the Department of Kinesiology **Marsh Center –** A center established by Virginia F. Harrison-Marsh and William Hector Marsh to recognize and promote research examining the contributions of physical activity, exercise and movement to enhancing human health and well-being

2015 – 2018 Invited to be an **Associate Editor** for the *Translational Journal of the American College of Sports Medicine*

2015 – Elected as **Fellow** in the *Academy of Behavioral Medicine Research* in recognition of scientific productivity, excellence and recognition of research accomplishments

2016 – Department of Veterans Affairs **Service Award** in recognition of 15 years of dedicated service excellence to the United States Government

2017 – Invited to give the 2016 **Clifford Lewis Lecture** in the Department of Kinesiology at the University of Georgia, Athens GA. This is an endowed lecture that is given each year by a kinesiology scholar in honor of Dr. Clifford Lewis

2017 – Appointed to the **Office of the Vice Chancellor for Research and Graduate Education – Research Committee** (Fall Competition)

2018 – Received the **2018 UW-Madison Postdoctoral Mentor Award** from the UW-Madison Postdoctoral Association in recognition of “excellence, innovation, and effectiveness in the mentoring of UW-Madison postdocs.”

2018 – Appointed to the Department of Veterans Affairs (VA) Joint Biomedical Laboratory Research and Development (BLR&D) and Clinical Science Research and Development (CSR&D) Services Scientific Merit Review Board – **Subcommittee for Special Emphasis – Gulf War Veterans’ Illnesses**

2018 – Appointed to the William S. Middleton Memorial Veterans Hospital **Research and Development (R&D) Committee**

2018 – Invited to serve on the **National Institute of Neurological Disorders and Stroke, Advisory Council for ME/CFS** - A Working Group dedicated to making research recommendations

2018 – Appointed to **Cross-Campus Human Research Protection Program Advisory Committee**, University of Wisconsin - Madison

2019 – Invited by the National Institute of Neurological Disorders and Stroke (NINDS), National Institutes of Health (NIH), and Centers for Disease Control and Prevention (CDC), to serve on the **NINDS/CDC Common Data Elements (CDEs) Oversight Committee (OC) for the Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS) project**

2019 – Appointed Vice Chair of the William S. Middleton Memorial Veterans Hospital **Research and Development (R&D) Committee**

2020 – Received recognition from the **National Institute of Neurological Disorders and Stroke** for my work on the NANDS Council Working Group for ME/CFS Research

2020 – Received the **2020 “Best Advisors Award”** from the UW-Madison annual Bucky Awards

2020 – Invited to serve as Associate Editor for *Medicine and Science in Sports and Exercise*, flagship journal of the **American College of Sports Medicine**

2020 – **Interim Chair**, Spring semester (2020), Department of Kinesiology, University of Wisconsin – Madison

2021 – **Promotion to Career Scientist**, William S. Middleton Memorial Veterans Hospital, Madison, WI.

2020-2021 – Served as Managing Editor for a Special Issue “**2020 Gulf War Illness State of the Science (GWI SOS)**” for *Life Sciences*.

2021 – **Certificate of Appreciation** recognizing contributions and meritorious service to the Department of Veterans Affairs Joint Biomedical Laboratory Research and Development and Clinical Science Research and Development Services Scientific Merit Review Board.

2021-2022 – **Invited to serve** on the American College of Sports Medicine “Call-to-Action” committee for “Exercise as Medicine for People with a Substance Use Disorder and Co-Occurring Mental Health and Chronic Pain Disorders.”

2022 – Invited to serve on the National Institutes of Health, Recover Act Exercise Intolerance subcommittee/working group

2022 – Invited to serve on the National Institutes of Health, Recover Act Autonomic Dysfunction subcommittee/working group

### RESEARCH AND PUBLICATIONS

1. Segura Jimenez V, J Ninneman, SV Van Riper, AJ Stegner, LD Ellingson & **DB Cook**. (In Preparation). Unique differences in gray matter volumes among fibromyalgia and rheumatoid arthritis: Associations with physical activity and sedentary behaviors.
2. **Cook, DB**, BH Natelson & F Togo (In Preparation). Cardiovascular Response to Orthostatic Challenge Before and After Strenuous Exercise in Chronic Fatigue Syndrome with or without Coexisting Fibromyalgia.
3. Vicky Whittemore, Jonas Bergquist, David Cella, Lily Chu, **Dane B. Cook**, Mary Dimmock, Katelyn Gay, Nathan Holladay, Mady Hornig, Leonard A. Jason, Anthony L. Komaroff, Gudrun Lange, Susan Levine, Denise Lopez-Majano, Elisa Oltra, Peter Rowe, Leorey Saligan, Kimberly Sullivan, Jarred Younger, Marcie Zinn, Andrew Breeden, M. Carolina Mendoza-Puccini, Elizabeth R. Unger (In Preparation). Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS) Common Data Elements (CDE) Working Group Paper DRAFT-FINAL (In Preparation).
4. Nora L. Nock, E. Amy Janke, Mark Stoutenberg, **Dane B. Cook**, James W. Whitworth, Adam J. Gordon (In Submission). Exercise as Medicine for People with a Substance Use Disorder: An ACSM Call to Action Statement. *Current Sports Medicine Reports*
5. Alexander E. Boruch, Jacob B. Lindheimer, Jacob V. Ninneman, Glenn R. Wylie, Thomas Alexander, Jacquelyn C. Klein-Adams, Aaron J. Stegner, Nicholas P. Gretzon, Bishoy Samy, Michael J. Falvo and **Dane B. Cook** (In Revision). Exercise-induced changes in gene expression do not mediate post exertional malaise in Gulf War illness. *Brain, Behavior, and Immunity – Health.*
6. Phillip Joseph, Inderjit Singh, Rudolf Oliveira, Christine A. Capone, Mary P. Mullen, **Dane B. Cook**, Mary Catherine Stovall, Johanna Squires, Kristine Madsen, Aaron B. Waxman, David M. Systrom (In Revision). Exercise Pathophysiology in ME/CFS and PASC: More in Common Than Not? *CHEST*.
7. Perkins SL, **Cook DB**, Herring MP, Meyer JD (In Submission). Dose-Response Effects of Acute Exercise Intensity on State Anxiety Among Women with Depression. *Frontiers in Psychiatry*.
8. Ryan J. Pewowaruk, Julian M. Gaitán, Carol C. Mitchell, Sarah Lose, Ryan Dougherty, Elizabeth Boots, **Dane B. Cook**, Ozioma C. Okonkwo, Adam D. Gepner (In submission). Effects of a 26-week randomized, controlled exercise intervention on arterial stiffness, endothelial function, and cognition in adults at risk for Alzheimer disease. *Arteriosclerosis, Thrombosis, and Vascular Biology*
9. Santiago V, Janal MN, **Cook DB**, Raphael KG. Temporal Summation and Aftersensations of Second Pain in Women with Myofascial Temporomandibular Disorder Differ by Presence of Temporomandibular Joint Pain. J Pain Res. 2022;15:3275-3286. doi: 10.2147/JPR.S381640. eCollection 2022. PubMed PMID: 36284523; PubMed Central PMCID: PMC9588293.
10. Melanie Uhde, Alyssa Indart, Peter Green, Robert Yolken, **Dane B. Cook**, Sanjay Shukla, Suzanne Vernon, Armin Alaedini. (Submitted). Chronic Fatigue Syndrome Is Associated with Suppressed Immune and Metabolic Responses to Microbial Translocation. *Cell Reports Medicine.*
11. VanRiper, S, AL Alexander, KF Koltyn, AJ Stegner, LD Ellingson, DJ Destiche, RJ Dougherty, JB Lindheimer & **DB Cook** (In Preparation). Physical Activity, Mood, Symptoms, and White Matter Integrity in Gulf War Veterans with Chronic Pain. *Pain*
12. Mitchell C, Gaitan J, Pewowaruk R, Gepner A, Hess T, Wilbrand S, Dempsey R, Dougherty R, **Cook DB**, Okonkwo O. Transcranial Color Coded Doppler Cerebral Hemodynamics Following Aerobic Exercise Training Outcomes From a Pilot Randomized Clinical Trial. Journal for Vascular Ultrasound. 2022 September; 46(3):110-117.
13. Kates A, Keating J, Baubie K, Putman-Buehler N, Watson L, Godfrey J, Deblois CL, Suen G, **Cook DB**, Rabago D, Gangnon R, Safdar N. Examining the association between the gastrointestinal microbiota and Gulf War illness: A prospective cohort study. PLoS One. 2022;17(7):e0268479. doi: 10.1371/journal.pone.0268479. eCollection 2022. PubMed PMID: 35901037; PubMed Central PMCID: PMC9333223.
14. Ninneman JV, Gretzon NP, Stegner AJ, Lindheimer JB, Falvo MJ, Wylie G, Dougherty RJ, Almassi NE, Van Riper SM, Boruch AE, Dean DC 3rd, Koltyn KF, **Cook DB**. Pain, but not Physical Activity, is Associated with Gray Matter Volume Differences in Gulf War Veterans with Chronic Pain. J Neurosci. 2022 Jun 13;. doi: 10.1523/JNEUROSCI.2394-21.2022. [Epub ahead of print] PubMed PMID: 35697521; PubMed Central PMCID: PMC9295831.
15. **Cook DB**, VanRiper S, Dougherty RJ, Lindheimer JB, Falvo MJ, Chen Y, Lin JS, Unger ER. Cardiopulmonary, metabolic, and perceptual responses during exercise in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS): A Multi-site Clinical Assessment of ME/CFS (MCAM) sub-study. PLoS One. 2022;17(3):e0265315. doi: 10.1371/journal.pone.0265315. eCollection 2022. PubMed PMID: 35290404; PubMed Central PMCID: PMC8923458.
16. Vesperman CJ, Wang R, Schultz SA, Law LL, Dougherty RJ, Ma Y, Oh JM, Edwards DF, Gallagher CL, Chin NA, Asthana S, Hermann BP, Sager MA, Johnson SC, **Cook DB**, Okonkwo OC. Cardiorespiratory fitness and cognition in persons at risk for Alzheimer's disease. Alzheimers Dement (Amst). 2022;14(1):e12330. doi: 10.1002/dad2.12330. eCollection 2022. PubMed PMID: 35845261; PubMed Central PMCID: PMC9270660.
17. Dougherty RJ, Lose SR, Gaitán JM, Mergen BM, Chin NA, Okonkwo OC, **Cook DB**. Five-year changes in objectively measured cardiorespiratory fitness, physical activity, and sedentary time in mid-to-late adulthood. Appl Physiol Nutr Metab. 2022 Feb;47(2):206-209. doi: 10.1139/apnm-2021-0500. Epub 2021 Nov 25. PubMed PMID: 34822304; PubMed Central PMCID: PMC9169430.
18. Gaitán JM, Dougherty RJ, Lose S, Maxa KM, Vesperman CJ, **Cook DB**, Okonkwo OC. Cardiorespiratory fitness bolsters cerebrovascular health in adults at risk for Alzheimer’s disease. Alzheimer's & Dementia. 2021 Dec;17:e049630.
19. Barhorst EE, Boruch AE, **Cook DB**, Lindheimer JB. Pain-Related Post-Exertional Malaise in Myalgic Encephalomyelitis / Chronic Fatigue Syndrome (ME/CFS) and Fibromyalgia: A Systematic Review and Three-Level Meta-Analysis. Pain Med. 2022 May 30;23(6):1144-1157. doi: 10.1093/pm/pnab308. PubMed PMID: 34668532.
20. Stegner AJ, Almassi NE, Dougherty RJ, Ellingson LD, Gretzon NP, Lindheimer JB, Ninneman JV, Van Riper SM, O'Connor PJ, **Cook DB**. Safety and efficacy of short-term structured resistance exercise in Gulf War Veterans with chronic unexplained muscle pain: A randomized controlled trial. Life Sci. 2021 Oct 1;282:119810. doi: 10.1016/j.lfs.2021.119810. Epub 2021 Jul 10. PubMed PMID: 34256041.
21. Boruch AE, Lindheimer JB, Klein-Adams JC, Stegner AJ, Wylie GR, Ninneman JV, Alexander T, Gretzon NP, Samy B, Van Riper SM, Falvo MJ, **Cook DB**. Predicting post-exertional malaise in Gulf War Illness based on acute exercise responses. Life Sci. 2021 Sep 1;280:119701. doi: 10.1016/j.lfs.2021.119701. Epub 2021 Jun 10. PubMed PMID: 34119538.
22. Cohen DE, Sullivan KA, McNeil RB, McNeil RB, Ashford W, Bested A, Bunker J, Cheema A, Cohen DE, **Cook DB**, Cournoyer J, Craddock T, Golier J, Hardie A, Helmer D, Lindheimer JB, Lloyd PJ, Kerr K, Krengel M, Nadkarni S, Nugent S, Paris B, Reinhard M, Rumm P, Schneiderman A, Sims KJ, Steele L, Turner M, Sullivan KA, Abdullah L, Abreu M, Abu-Donia M, Aenlle K, Arocho J, Balbin E, Baraniuk J, Block K, Block M, DeBeer B, Engdahl B, Filipov N, Fletcher MA, Kalasinsky V, Kokkotou E, Lidie K, Little D, Loging W, Morris M, Nathanson L, Nichols MD, Pasinetti G, Shungu D, Waziry P, VanLeeuwen J, Younger J. A common language for Gulf War Illness (GWI) research studies: GWI common data elements. Life Sci. 2022 Feb 1;290:119818. doi: 10.1016/j.lfs.2021.119818. Epub 2021 Aug 2. PubMed PMID: 34352259; PubMed Central PMCID: PMC9267452.
23. Lindheimer JB, Stegner AJ, Van Riper SM, Ninneman JV, Ellingson LD, **Cook DB**. Nociceptive stress interferes with neural processing of cognitive stimuli in Gulf War Veterans with chronic musculoskeletal pain. Life Sci. 2021 Aug 15;279:119653. doi: 10.1016/j.lfs.2021.119653. Epub 2021 May 26. PubMed PMID: 34051215; PubMed Central PMCID: PMC8243383.
24. Gaitán JM, Moon HY, Stremlau M, Dubal DB, **Cook DB**, Okonkwo OC, van Praag H. Effects of Aerobic Exercise Training on Systemic Biomarkers and Cognition in Late Middle-Aged Adults at Risk for Alzheimer's Disease. Front Endocrinol (Lausanne). 2021;12:660181. doi: 10.3389/fendo.2021.660181. eCollection 2021. PubMed PMID: 34093436; PubMed Central PMCID: PMC8173166.
25. Dougherty RJ, Jonaitis EM, Gaitán JM, Lose SR, Mergen BM, Johnson SC, Okonkwo OC, **Cook DB**. Cardiorespiratory fitness mitigates brain atrophy and cognitive decline in adults at risk for Alzheimer's disease. Alzheimers Dement (Amst). 2021;13(1):e12212. doi: 10.1002/dad2.12212. eCollection 2021. PubMed PMID: 34268447; PubMed Central PMCID: PMC8274307.
26. Maxa KM, Hoffman C, Rivera-Rivera LA, Motovylyak A, Turski PA, Mitchell CKC, Ma Y, Berman SE, Gallagher CL, Bendlin BB, Asthana S, Sager MA, Hermann BP, Johnson SC, **Cook DB**, Wieben O, Okonkwo OC. Cardiorespiratory Fitness Associates with Cerebral Vessel Pulsatility in a Cohort Enriched with Risk for Alzheimer's Disease. Brain Plast. 2020 Oct 1;5(2):175-184. doi: 10.3233/BPL-190096. PubMed PMID: 33282680; PubMed Central PMCID: PMC7685671.
27. Lindheimer JB, Alexander T, Qian W, Klein-Adams JC, Lange G, H Natelson B, **Cook DB**, Hill HZ, Falvo MJ. An analysis of 2-day cardiopulmonary exercise testing to assess unexplained fatigue. Physiol Rep. 2020 Sep;8(17):e14564. doi: 10.14814/phy2.14564. PubMed PMID: 32889791.
28. Morris JK, Zhang G, Dougherty RJ, Mahnken JD, John CS, Lose SR, **Cook DB**, Burns JM, Vidoni ED, Okonkwo O. Collective effects of age, sex, genotype, and cognitive status on fitness outcomes. Alzheimers Dement (Amst). 2020;12(1):e12058. doi: 10.1002/dad2.12058. eCollection 2020. PubMed PMID: 32695870; PubMed Central PMCID: PMC7364859.
29. Gaitán JM, Boots EA, Dougherty RJ, Ma Y, Edwards DF, Mitchell CC, Christian BT, **Cook DB**, Okonkwo OC. Protocol of Aerobic Exercise and Cognitive Health (REACH): A Pilot Study. J Alzheimers Dis Rep. 2020 May 2;4(1):107-121. doi: 10.3233/ADR-200180. PubMed PMID: 32587945; PubMed Central PMCID: PMC7306918.
30. Barhorst EE, Andrae WE, Rayne TJ, Falvo MJ, **Cook DB**, Lindheimer JB. Elevated Perceived Exertion in People with Myalgic Encephalomyelitis/Chronic Fatigue Syndrome and Fibromyalgia: A Meta-analysis. Med Sci Sports Exerc. 2020 Jun 15;. doi: 10.1249/MSS.0000000000002421. [Epub ahead of print] PubMed PMID: 32555018.
31. Segura-Jiménez V, Gavilán-Carrera B, Acosta-Manzano P, **Cook DB**, Estévez-López F, Delgado-Fernández M. Sedentary Time Accumulated in Bouts is Positively Associated with Disease Severity in Fibromyalgia: The Al-Ándalus Project. J Clin Med. 2020 Mar 9;9(3). doi: 10.3390/jcm9030733. PubMed PMID: 32182753; PubMed Central PMCID: PMC7141225.
32. Perez ML, Raison CL, Coe CL, **Cook DB**, Meyer JD. Cytokine responses across submaximal exercise intensities in women with major depressive disorder. Brain Behav Immun Health. 2020 Feb;2:100046. doi: 10.1016/j.bbih.2020.100046. eCollection 2020 Feb. PubMed PMID: 34589833; PubMed Central PMCID: PMC8474480.
33. Lindheimer JB, Stegner AJ, Wylie GR, Klein-Adams JC, Almassi NE, Ninneman JV, Van Riper SM, Dougherty RJ, Falvo MJ, **Cook DB**. Post-exertional malaise in veterans with gulf war illness. Int J Psychophysiol. 2020 Jan;147:202-212. doi: 10.1016/j.ijpsycho.2019.11.008. Epub 2019 Nov 28. PubMed PMID: 31786249; PubMed Central PMCID: PMC6957714.
34. Dougherty RJ, Boots EA, Lindheimer JB, Stegner AJ, Van Riper S, Edwards DF, Gallagher CL, Carlsson CM, Rowley HA, Bendlin BB, Asthana S, Hermann BP, Sager MA, Johnson SC, Okonkwo OC, **Cook DB**. Fitness, independent of physical activity is associated with cerebral blood flow in adults at risk for Alzheimer's disease. Brain Imaging Behav. 2019 Mar 9;. doi: 10.1007/s11682-019-00068-w. [Epub ahead of print] PubMed PMID: 30852709.
35. Gaitán JM, Boots EA, Dougherty RJ, Oh JM, Ma Y, Edwards DF, Christian BT, **Cook DB**, Okonkwo OC. Brain Glucose Metabolism, Cognition, and Cardiorespiratory Fitness Following Exercise Training in Adults at Risk for Alzheimer's Disease. Brain Plast. 2019 Dec 26;5(1):83-95. doi: 10.3233/BPL-190093. PubMed PMID: 31970062; PubMed Central PMCID: PMC6971821.
36. Being Active with Fibromyalgia, Rx for Health Series: Exercise is Medicine: ACSM, 2019. Co-authored by **Dane B. Cook**, Julia Bionde & Candice Schacter (2019).
37. Lindheimer JB, Stegner AJ, Ellingson-Sayen LD, Van Riper SM, Dougherty RJ, Falvo MJ, **Cook DB**. Influence of pain anticipation on brain activity and pain perception in Gulf War Veterans with chronic musculoskeletal pain. Psychophysiology. 2019 Dec;56(12):e13452. doi: 10.1111/psyp.13452. Epub 2019 Aug 20. PubMed PMID: 31429944; PubMed Central PMCID: PMC6803046.
38. Lindheimer JB, **Cook DB**, Klein-Adams JC, Qian W, Hill HZ, Lange G, Ndirangu DS, Wylie GR, Falvo MJ. Veterans with Gulf War Illness exhibit distinct respiratory patterns during maximal cardiopulmonary exercise. PLoS One. 2019;14(11):e0224833. doi: 10.1371/journal.pone.0224833. eCollection 2019. PubMed PMID: 31714907; PubMed Central PMCID: PMC6850551.
39. Bollaert, R.E., DB Cook, AV Ng, & Motl, RW. How do persons with multiple sclerosis perceive effort during exercise? *Physiotherapy Practice and Research,* 2019, pp.1-9.
40. Meyer JD, Crombie KM, **Cook DB**, Hillard CJ, & Koltyn KF. Serum Endocannabinoid and Mood Changes after Exercise in Major Depressive Disorder. Med Sci Sports Exerc. 2019 Apr 8;. doi: 10.1249/MSS.0000000000002006. [Epub ahead of print] PubMed PMID: 30973483.
41. Keating JA, Shaughnessy C, Baubie K, Kates AE, Putman-Buehler N, Watson L, Dominguez N, Watson K, **Cook DB**, Rabago D, Suen G, Gangnon R, Safdar N. Characterising the gut microbiome in veterans with Gulf War Illness: a protocol for a longitudinal, prospective cohort study. BMJ Open. 2019 Aug 19;9(8):e031114. doi: 10.1136/bmjopen-2019-031114. PubMed PMID: 31431446; PubMed Central PMCID: PMC6707676.
42. Law LL, Sprecher KE, Dougherty RJ, Edwards DF, Koscik RL, Gallagher CL, Carlsson CM, Zetterberg H, Blennow K, Asthana S, Sager MA, Hermann BP, Johnson SC, **Cook DB**, Bendlin BB, Okonkwo OC. Cardiorespiratory Fitness Modifies Influence of Sleep Problems on Cerebrospinal Fluid Biomarkers in an At-Risk Cohort. J Alzheimers Dis. 2019;69(1):111-121. doi: 10.3233/JAD-180291. PubMed PMID: 30958346.
43. Wylie GR, Genova H, Dobryakova E, DeLuca J, Chiaravalloti N, Falvo M, **Cook DB**. Fatigue in Gulf War Illness is associated with tonically high activation in the executive control network. Neuroimage Clin. 2019;21:101641. doi: 10.1016/j.nicl.2018.101641. Epub 2018 Dec 11. PubMed PMID: 30558870; PubMed Central PMCID: PMC6411905.
44. Vesperman CJ, Pozorski V, Dougherty RJ, Law LL, Boots E, Oh JM, Gallagher CL, Carlsson CM, Rowley HA, Ma Y, Bendlin BB, Asthana S, Sager MA, Hermann BP, Johnson SC, **Cook DB**, Okonkwo OC. Cardiorespiratory fitness attenuates age-associated aggregation of white matter hyperintensities in an at-risk cohort. Alzheimers Res Ther. 2018 Sep 24;10(1):97. doi: 10.1186/s13195-018-0429-0. PubMed PMID: 30249285; PubMed Central PMCID: PMC6154903.
45. Trigsted SM, **Cook DB**, Pickett KA, Cadmus-Bertram L, Dunn WR, Bell DR. Greater fear of reinjury is related to stiffened jump-landing biomechanics and muscle activation in women after ACL reconstruction. Knee Surg Sports Traumatol Arthrosc. 2018 Dec;26(12):3682-3689. doi: 10.1007/s00167-018-4950-2. Epub 2018 Apr 26. PubMed PMID: 29700560.
46. Law LL, Rol RN, Schultz SA, Dougherty RJ, Edwards DF, Koscik RL, Gallagher CL, Carlsson CM, Bendlin BB, Zetterberg H, Blennow K, Asthana S, Sager MA, Hermann BP, Johnson SC, **Cook DB**, Okonkwo OC. Moderate intensity physical activity associates with CSF biomarkers in a cohort at risk for Alzheimer's disease. Alzheimers Dement: Diag, Assess Dis Mon (Amst). 2018 Feb 6;10:188-195. doi: 10.1016/j.dadm.2018.01.001. eCollection 2018. PubMed PMID: 29527551; PubMed Central PMCID: PMC5842318.
47. Ellingson LD, Stegner AJ, Schwabacher IJ, Lindheimer JB, **Cook DB**. Catastrophizing Interferes with Cognitive Modulation of Pain in Women with Fibromyalgia. Pain Med. 2018 Dec 1;19(12):2408-2422. doi: 10.1093/pm/pny008. PubMed PMID: 29474665.
48. Dougherty RJ, Lindheimer JB, Stegner AJ, Van Riper S, Okonkwo OC, **Cook DB**. An Objective Method to Accurately Measure Cardiorespiratory Fitness in Older Adults Who Cannot Satisfy Widely Used Oxygen Consumption Criteria. J Alzheimers Dis. 2018;61(2):601-611. doi: 10.3233/JAD-170576. PubMed PMID: 29226867; PubMed Central PMCID: PMC5745283.
49. Kuenze C, Cadmus-Bertram L, Pfieffer K, Trigsted S, **Cook DB,** Lisee C, Bell D. Relationship Between Physical Activity and Clinical Outcomes After ACL Reconstruction. J Sport Rehabil. 2019 Feb 1;28(2):180-187. doi: 10.1123/jsr.2017-0186. Epub 2018 Oct 15. PubMed PMID: 29140161.
50. Lindheimer, J., J.D. Meyer, R. J. Dougherty, M.R. Shields, L.D. Ellingson, A.J. Stegner & **D.B. Cook** (2017). Post-exertion malaise: Variability of symptoms across two studies of chronic fatigue syndrome patients. *Fatigue, Biomedicine & Behavior* 5(2), 69-88.
51. Dougherty RJ, Schultz SA, Kirby TK, Boots EA, Oh JM, Edwards D, Gallagher CL, Carlsson CM, Bendlin BB, Asthana S, Sager MA, Hermann BP, Christian BT, Johnson SC, **Cook DB**, Okonkwo OC. Moderate Physical Activity is Associated with Cerebral Glucose Metabolism in Adults at Risk for Alzheimer's Disease. J Alzheimers Dis. 2017;58(4):1089-1097. doi: 10.3233/JAD-161067. PubMed PMID: 28527205; PubMed Central PMCID: PMC5703045.
52. Van Riper SM, Alexander AL, Koltyn KF, Stegner AJ, Ellingson LD, Destiche DJ, Dougherty RJ, Lindheimer JB, **Cook DB**. Cerebral white matter structure is disrupted in Gulf War Veterans with chronic musculoskeletal pain. Pain. 2017 Dec;158(12):2364-2375. doi: 10.1097/j.pain.0000000000001038. PubMed PMID: 28796115.
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**RESEARCH SUPPORT**

***Extramural Research Support***

2023 – 2027 – **“Genetic predictors, pathophysiological mechanisms, and functional consequences of post-acute sequelae of SARS-CoV-2: Exercise challenge of gut microbiome and neuroinflammation in PASC”**

* Role: PI
* Funding Source: Department of Veterans Affairs Merit Review (CSR&D: I01 CX002616)
* Total Direct Costs: $599,504
* Major Goals: To determine brain inflammation and gut dysbiosis in Veterans with Long COVID.

2023 – 2025 – **“Validation of a diffusion MRI protocol for mapping microglia and astrocyte activation”**

* Role: Co-I (Rosenkranz – PI)
* Funding Source: Alzheimer’s Disease Research Center Pilot Grant Program

2022-2023 – “**Post-Acute Sequelae SARSCov-2 (PASC): Can Physical Activity and Select Genomic Markers Predict Long-COVID Risk?**”

* Role: PI
* Funding Source: Voucher program for UW-Madison All of Us Workbench Projects
* Total Costs: $599,504
* Major Goals: To determine genetic predictors of long-COVID symptoms and associations with physical activity.

2021 – 2026 – **“CSRD Merit Review Research Career Scientist Award”**

* Role: PI
* Funding Source: Department of Veterans Affairs Merit Review (CSR&D: IK6 CX002369)
* Total Direct Costs: $599,504
* Major Goals: To determine the psychobiological consequences of Gulf War illness.

2019-2023 – **“Post-exertion Malaise in GWI: Brain, Autonomic and Behavioral Interactions – 3 Year Supplement and Project Extension”**

* Role: PI
* Funding Source: Department of Veterans Affairs Merit Review (CSR&D: I01 CX0011329)
* Total Direct Costs: $4,512,437
* Major Goals: This multi-site project (New Jersey War Related Illness and Injury Study Center) will extend upon the parent project by utilizing a new platform for blood collection and processing that increases the sensitivity and consistency of immunological, proteomic, metabolomic, transcriptomic and epigenetic assays in peripheral blood. The goal is to better determine the biology of Gulf War Illness.

2021-2025 – **“A Cardiovascular Analysis of Post-exertional Malaise”**

* Role: Consultant
* Funding Source: National Institutes of Health (NINDS: 1R01NS117638)
* Total Direct Costs: $2,628,023
* Major Goals: To determine the role of fluid loss and blood volume on cardiovascular and symptom responses in ME/CFS.

2019-2022 – **“Autonomic Dysfunction, Brain Blood Flow, and Cognitive Decline in Veterans with Gulf War Illness”**

* Role: Co-I (Barnes – PI)
* Funding Source: Department of Defense (CDMRP: GW180160)
* Total Direct Costs: $775,885
* Major Goals: This project seeks to test the relationships between cerebral blood flow regulation and autonomic nervous system function at rest and during physiological stress to determine their impact on cognitive decline in Veterans with GWI.

2018-2023 – **“Longitudinal Investigation of Cardiorespiratory Fitness and AD Biomarkers in an At-Risk Cohort”**

* Role: Co-I (Okonkwo – PI)
* Funding Source: National Institutes of Health (NIA: 1R01AG062167-01)
* Total Direct Costs: $3,824,081
* Major Goals: This project seeks to examine longitudinal changes in brain, cardiovascular and fitness systems in older adults at-risk for Alzheimer’s disease.

2019-2024 – **“Vivian Santiago’s application for an NIDCR Mentored Career Development Award to Promote Diversity in the Dental, Oral and Craniofacial Research Workforce (K01)”**

* Role: Primary Mentor (Applicant: Vivian Santiago)
* Major Goals: To train Vivian in pain psychophysics to better determine pain sensitivity in TMDs.

2018-2023 – **“Acute Exercise Tolerance among Veterans with Gulf War Illness: A Dose-Response Study”**

* Role: Primary Mentor (Applicant: Jacob Lindheimer)
* Funding Source: Department of Veterans Affairs, CSR&D, Career Development Award (CDA)
* Total Direct Costs: $916,662
* Major Goals: To determine the relationships between exercise dose and symptoms and immune system responses in Gulf War Veterans with Gulf War illness.

2019-2024 – **“Assessing Arterial Stiffness in Older Hypertensive Veterans”**

* Role: Secondary Mentor (Applicant: Adam Gepner)
* Funding Source: Department of Veterans Affairs, Career Development Award (CDA)
* Major Goals: To determine the role of arterial stiffness in hypertensive older Veterans

2016-2023: **“Post-exertion Malaise in GWI: Brain, Autonomic and Behavioral Interactions”**

* Role: PI
* Funding Source: Department of Veterans Affairs Merit Review (CSR&D: I01 CX0011329-01)
* Total Direct Costs: $2,140,000
* Major Goals: This multi-site project (New Jersey War Related Illness and Injury Study Center) will determine the impact of acute exercise on brain function, autonomic and immune function and whether these systems interact to produce symptoms in Gulf War Veterans with Gulf War Illness.

2018-2020 **“****Longitudinal Assessment of Physical Activity, Cerebral Glucose Metabolism, and Cognitive Function in an At-risk Cohort”**

* Role Co-Mentor (with Okonkwo)
* NIH (NIA) 1F31AG062009-01
* Total Direct Costs: $63,226
* Major Goals: This project seeks to determine the roles of physical activity and fitness on cerebral glucose metabolism in adults at-risk for Alzheimer’s disease.

2017-2019: **“Examining the Gut Microbiota in Veterans with Gulf War illness”**

* Role: Co-I (PI Safdar)
* Funding Source: Department of Veterans Affairs Merit Review - VA-Office of Research and Development: IO1 CX-001574
* Total Direct Costs: $300,000
* Major Goals: To comprehensively determine gut microbiota structure and function in Veterans with Gulf War illness.

2011-2018: **“Impact of Exercise Training on Pain and Brain Function in Gulf War Veterans”**

* Role: PI
* Funding Source: Department of Veterans Affairs Merit Review (Mental Health and Behavior Science section: I01 CX000383-05)
* Total Direct Costs: $1,247,800
* Supplement: $388,000
* Major Goals: To determine the influence of resistance exercise training on symptoms, physical activity and brain structure & function in GVs with chronic muscle pain (CMP)

2014-2016: **“Aerobic Exercise for AD Prevention in At-Risk Middle-Aged Adults”**

* Role: Co-I (Okonkwo: PI)
* Funding Source: Alzheimer’s Association International Research Grant Program
* Total Direct Costs: $100,000
* Major Goals: To determine the feasibility and effectiveness of an aerobic exercise intervention among asymptomatic, middle-aged adults with a family history of AD. Maiin outcomes will include adherence and AD-relevant outcomes such as glucose metabolism and cognition

2013-2017: **"Examination of Cognitive Fatigue in Gulf War Illness using Functional Magnetic Resonance Imaging"**

* Role: Co-I (Wylie: PI)
* Funding Source: Department of Veterans Affairs Merit Review (CSR&D)
* Total Direct Costs: $761,222
* Effort: 1.2 calendar months2 cal mo
* Major Goals: This project seeks to ascertain the changes in the brain that are associated with cognitive fatigue in Gulf War Illness.

2012-2014: **“Post-exertion malaise in CFS: A systems biology approach to understanding brain, inflammation and behavior interactions”**

* Role: PI
* Funding Source: The Chronic Fatigue and Immune Dysfunction Syndrome (CFIDS) Association of America
* Total Direct Costs: $150,000
* Major Goals: To determine the interactions between brain responses, inflammatory responses and symptoms in chronic fatigue syndrome patients pre- and post-exercise

2013-2014: **“Quantifying and Reducing Sedentary Time in College Students”**

* Role: PI
* Funding Source: American College of Sports Medicine – Paffenbarger-Blair Fund for Epidemiological Research on Physical Activity
* Total Direct Costs: $10,000
* Major Goals: To determine the efficacy of VibroTactile feedback on sedentary and physical activity behaviors in college men and women

2011-2012: **“Integrative Physiology of Gulf War Illness: Role of Autonomic Function, Central Neural Processing, and Sleep”**

* Role: Co-PI (Madison site)
* Funding Source: Department of Defense (CDMRP)
* Total Direct Costs: $254,600 ($12,000 for Madison subcontract)
* Major Goals: To take an integrative treatment approach to characterizing the pathophysiology of Gulf War Illness and its’ responsiveness to standard and novel treatment

-Roles: Co-Investigator of planning grant and PI of the UW-Madison site. Charged with design of the exercise training and functional brain imaging protocols

2010 – 2013: **“Homeostatic and Circadian Abnormalities in Sleep and Arousal in Gulf War Syndrome”**

* Role: Co-I (PI: Juergens)
* Funding Source: Dept. of Defense (CDMRP)
* Total Direct Costs: $480,000
* Major Goals: To determine whether abnormalities in homeostatic and circadian systems of sleep and arousal, are an intrinsic issue or secondary to other changes in Gulf War Veterans with chronic fatigue

2010 – 2012: **“****Attenuation of Pain in Men and Women: Mechanisms of Exercise-Induced Analgesia”**

* Role: Co-I (PI: Koltyn)
* Funding Source: National Institutes of Health (R21)
* Total Direct Costs: $250,000
* Major Goals: To determine whether differences in pain sensitivity are due to underlying sex differences in pain modulatory systems

2009-2011: “**Metagenomics approach to study chronic fatigue syndrome patients”**

* Role: Co-PI (Madison Site)
* Funding Source: The Chronic Fatigue and Immune Dysfunction Syndrome (CFIDS) Association of America
* Total Direct Costs: $125,000
* Major Goals: To use metagenomics to determine the intestinal microbiota communities in CFS patients and controls prior to and following maximal exercise

2008-2012: **“Imaging pain modulation in Gulf War veterans with chronic muscle pain”**

* Role: PI
* Funding Source: Department of Veterans Affairs Merit Review (Mental Health and Behavior Science section)
* Total Direct Costs: $942,000
* Major Goals: To determine the psychophysical and neural aspects of pain modulation in GVs with chronic muscle pain (CMP) and test whether central nervous system modulation of pain is impaired in widespread CMP versus both a regional pain group and healthy veteran controls

2005-2010: **“Imaging the cognitive modulation of pain in Fibromyalgia”**

* Role: PI
* Funding Source: National Institutes of Health (RO1: NIAMS)
* Total Direct Costs: $1,125,000
* Major Goals: To determine the psychophysical and neural aspects of pain modulation in fibromyalgia and test whether central nervous system modulation of pain is impaired in unexplained pain (FM) versus both an explained pain group (rheumatoid arthritis patients) and healthy controls

2005-2008: **“Vagal nerve stimulation in fibromyalgia”**

* Role: Consultant (PI: Lange)
* Funding Source: National Institutes of Health (RO1)
* Total Direct Costs: $1,298,460
* Major Goals: To test the efficacy, safety and tolerability of the NCP vagal nerve stimulation system for the treatment of pain in patients with severe fibromyalgia with and without depression.

2005-2008: **“Functional imaging of pain in Gulf Veterans with medically unexplained musculoskeletal pain”**

* Role: PI
* Funding Source: Department of Veterans Affairs Merit Review
* Total Direct Costs: $358,500
* Major Goals: To determine the psychophysical and neurophysiological aspects of pain in Gulf Veterans suffering from moderate to severe musculoskeletal pain as compared to veterans with rheumatoid arthritis and healthy veteran controls

2004 – 2008: **“Sleep and cytokines in Chronic Fatigue Syndrome”**

* Role: Co-I (PI: Natelson)
* Funding Source: National Institutes of Health (RO1)
* Total Direct Costs: $2,577,396
* Major Goals: To examine the effect of disturbed sleep on sleep disrupting and sleep promoting cytokines prior to and following a maximal exercise test in patients with chronic fatigue syndrome (CFS).

2003-2004: **“Functional magnetic resonance imaging correlates of fatigue symptoms in patients with chronic fatigue syndrome and normal controls”**

* Role: PI
* Funding Source: International Life Science Institute (ILSI), North America’s Technical Committee on Energy
* Total Costs: $24,500
* Goals: To study the neural representation of the subjective feelings of fatigue by determining whether the perception of fatigue is associated with certain brain regions and changes in overall brain activity during the completion of fatiguing versus non-fatiguing cognitive and physical tasks.

2001-2003: **“Pain sensitivity in Gulf War veterans with medically unexplained musculoskeletal pain”**

* Role: PI
* Funding Source: Department of Veterans Affair
* Total Direct Costs: $100,000
* Major Goals: To examine muscle pain, exercise-induced analgesia and the immune system in Gulf War veterans with medically unexplained pain.

1999-2003: **“A neurophysiological assessment of pain perception in patients with fibromyalgia”**

* Role: Co-I (PI: Ciccone)
* Funding Source: National Institutes of Health pilot project
* Major Goals: To determine the perceptual and central nervous system responses to pain in fibromyalgia subjects and healthy controls using functional magnetic resonance imaging (fMRI).

1999-2003: **“Renewal of the New Jersey Chronic Fatigue Syndrome and Fibromyalgia Cooperative Research Center (NJCFSFMCRC)”**

* Role: Co-I (2002-2004) (PI: Natelson)
* Funding Source: National Institutes of Health (U01)
* Total Direct Costs: $2,437,716
* Major Goals: To determine the pathophysiology of chronic fatigue syndrome (CFS ) and fibromyalgia (FM)

***Intramural Research Support***

2022 – 2023: **“Bain Inflammation in Post-Acute Sequelae of SARS-CoV-2 Infection (Long COVID)”**

* Role: PI
* Funding Source: UW – Madison Biological Sciences Fall Competition grants
* Total Costs: $64,000
* Goals: To determine the effects of acute exercise on brain inflammation in Long-Covid.

2019 – 2021: “**Brain Inflammation in Multi-Symptom Disease**”

* Role: PI
* Funding Source: UW School of Education – Grand Challenges Seed Grant Initiative
* Total Costs: $75,000
* Goals: To determine the impact of acute exercise on brain inflammation and brain function in Gulf War Veterans with Gulf War illness

2019-2021: “**Brain Inflammation during Post-Exertional Malaise**”

* Role: PI
* Funding Source: UW School of Education – Virginia Horne Henry Fund for Women’s Physical Education
* Total Costs: $22,246
* Goals: To determine the impact of acute exercise on brain inflammation and brain function in Myalgic Encephalomyelitis / Chronic Fatigue Syndrome

2018 – 2019: **“****Longitudinal Assessment of Physical Activity and AD Biomarkers in an At-risk Cohort”**

* Role: Co-I
* Funding Source: UW – Madison Biological Sciences Fall Competition grants
* Total Costs: $86,722
* Goals: To begin to more definitively assess the extent to which a physically-active lifestyle is efficacious at reducing the risk of AD

2018-2019: “**Structural Neuroimaging of Physical Activity Behaviors in Healthy Women**”

* Role: PI
* Funding Source: Virginia Horne Henry Fund for Women’s Physical Education
* Total Costs: $29,767
* Goals: To determine the influence of exercise intensity and BDNF on depressed mood in women with major depressive disorder.

2016: “**Human exercise research core**”

* Role: Co-I
* UW 20/20 Initiative
* Total Costs: $300,000
* To create an exercise testing environment to promote and foster exercise research on the UW-Madison campus

2016-2017: **“Online Development of ‘Kinesiology 350: Introduction to Exercise Psychology”** was funded as part of Summer Term Special Initiatives Development Award

* Role: Instructor / PI
* Funding Source: Division of Continuing Studies (“DCS”)
* Total Costs: $15,000
* Goals: To develop Kinesiology 350: Introduction to Exercise Psychology into an online course to be delivered during Summer Term starting in 2018.

2014-2016: “**Physical activity, exercise and BDNF in depressed women”**

* Role: PI
* Funding Source: Virginia Horne Henry Fund for Women’s Physical Education
* Total Costs: $32,217
* Goals: To determine the influence of exercise intensity and BDNF on depressed mood in women with major depressive disorder.

2014-2015: **Sequestration Bridge Funding**

* Role: PI
* Funding Source: School of Education
* Total Costs: $50,000
* Goals: To provide bride funding during difficult funding climate.

2013-2015: **“Thinking like a girl: Characterizing cognition and mood across a competitive season in female student-athletes”**

* Role: PI
* Funding Source: Virginia Horne Henry Fund for Women’s Physical Education
* Total Costs: $34,960
* Goals: To determine the changes in cognition and mood in female rowers across a competitive season as training volumes increase and then recover.

2013-2015: **“The relationship between exercise intensity and depressed mood in major depression”**

* Role: PI
* Funding Source: Graduate School Fall Competition
* Total Costs: $19,300
* Goals: To systematically investigate the relationship between acute exercise intensity and depressed mood in MDD while testing one plausible biological mechanism of this effect (BDNF).

2011-2012: **“Novel mechanisms of exercise-induced muscle pain in women: acute exercise responses and adaptations to training”**

* Role: PI
* Funding Source: Virginia Horne Henry Fund for Women’s Physical Education
* Total Costs: $25,810
* Goals: To determine the influence of resistance exercise on muscle pain and mRNA for receptors on leukocytes and their adaptations to training in weight-training naïve college-aged women

2010 – 2011: **“Using a Metagenomic Approach to Investigate Microbiological Markers of Chronic Fatigue Syndrome”**

* Role: PI
* Funding Source: Virginia Horne Henry Fund for Women’s Physical Education
* Total Costs: $28,780
* Goals: To determine the influence of maximal exercise on genetic markers of pain and fatigue in patients with chronic fatigue syndrome and healthy controls

2008-2010: **“Functional Neuroimaging of Exercise-Induced Modulation of Pain in Women with Fibromyalgia”**

* Role: PI
* Funding Source: Virginia Horne Henry Fund for Women’s Physical Education
* Total Costs: $29,839
* Goals: To determine the influence of acute exercise on pain and brain responses in women with fibromyalgia (FM) using functional magnetic resonance imaging (fMRI). This grant supplemented the previous one and allowed for a greater sample size and addition of a chronic pain group.

2007-2008: **“Functional Neuroimaging of Exercise-Induced Modulation of Pain in Women with Fibromyalgia”**

* Role: PI
* Funding Source: Virginia Horne Henry Fund for Women’s Physical Education
* Total Costs: $28,780
* Goals: To determine the influence of acute exercise on pain and brain responses in women with fibromyalgia (FM) using functional magnetic resonance imaging (fMRI).

***Private Funding***

2015-2019: Independent contract for processing and analyzing CDC exercise testing data

* Role PI
* Funding Source: Centers for Disease Control (CDC) and Prevention
* Total Costs: $100,000
* Goals: To independently analyze exercise testing data for the chronic fatigue syndrome mutli-site case definition study – a cohort consisting of over 400 ME/CFS patients and controls

##### PRESENTATIONS

***Invited***

“Post exertion malaise in GWI - brain, autonomic, and behavioral interactions” Presentation to the ***Research Advisory Committee on Gulf War Veterans’ Illnesses***, Washington, DC, September, 2022.

“Cognitive Challenge Methods” Symposium on "Provocative Maneuvers: Methods to Induce Symptomatic Features of ME/CFS" at the ***International Association of Chronic Fatigue Syndrome (IACFS) annual meeting***, Virtual Presentation, August, 2022.

“Lifting Your Mental Health: Epidemiological, Experimental, and Mechanistic Evidence of Resistance Exercise for Mental Health” Symposium presented at the ***Annual Meeting of the American College of Sports Medicine***, San Diego, CA, May, 2022.

“Functional Neural Consequences of Post-Exertional Malaise” Presented at the ***FSEM Annual Scientific Conference, Exercise is Medicine***, September, 2021.

“Magnetic Resonance Imaging Methods to answer Exercise Psychology Questions” Presented to the ***Aerospace Physiology Research Section*** at Wright-Patterson Air Force Base, May 25, 2021.

“Exercise Testing in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS)” Presented to the ***Centers for Disease Control,*** Virtual Presentation, May 13, 2021.

“Cardiopulmonary Exercise Testing – Metrics” Presented to the ***Research Advisory Committee on Gulf War Veterans’ Illnesses***. Virtual Presentation, March 10, 2021.

“Exercise testing data from the Multi-Site Clinic Assessment of Myalgic Encephalomyelitis/ Chronic Fatigue Syndrome (MCAM) Study” Presented to the ***Centers for Disease Control,*** Virtual Presentation, September, 2020.

“Variability in prevalence and symptom response of post exertion malaise in Gulf War illness” Presented at the 2020 Virtual Gulf War Illness (GWI)-State of the Science Conference, August 18-19, 2020.

“Exercise testing data from the Multi-Site Clinic Assessment of Myalgic Encephalomyelitis/ Chronic Fatigue Syndrome (MCAM) Study” Presented to the ***Centers for Disease Control,*** Atlanta, GA, October, 2018.

“Brain States and Traits in Chronic Multi-Symptom Diseases (Myalgic Encephalomyelitis / Chronic Fatigue Syndrome)” Presented to the ***National Institutes of Health***, Bethesda, MD, September, 2018.

“The Role of Exercise in Understanding and Treating Chronic Multisymptom Illnesses” Symposium presentation. I chaired this session and presented to introduction. ***Annual Meeting of the American College of Sports Medicine***, Minneapolis, MN, May, 2018.

“Exercise testing data from the Multi-Site Clinic Assessment of Myalgic Encephalomyelitis/ Chronic Fatigue Syndrome (MCAM) Study” Presented to the ***Centers for Disease Control,*** Atlanta, GA, December, 2017.

“Neuroimaging of exercise and pain” Presented to the doctoral and post-doctoral fellows at Ghent University in Ghent, Belgium, October 2017.

“Psychobiology of Pain and Exercise in Chronic Musculoskeletal Pain” Presented as part of the ACSM/Society of Behavioral Medicine Co-Sponsored Symposium: Exercise as an Integrative Approach to the Management of Chronic Pain and Addiction. ***Annual Meeting of the American College of Sports Medicine***, Denver, CO, May, 2017.

“Psychobiology of Pain and Exercise: Bulldog to Badger” Presented for the ***2016 Clifford Lewis Lecture in the Department of Kinesiology at the University of Georgia***, Athens, GA, February, 2017.

“Functional and structural brain imaging of the exercise and pain paradox" Presented at the ***University of Florida, Department of Health and Human Performance seminar series***, Gainesville, Florida, February, 2017.

“Stakeholder Workgroup” Personation given to the ***Chronic Fatigue Syndrome Advisory Committee*** concerning the importance of stakeholder involvement in ME/CFS research. Washington DC, March, 2017.

“The Psychobiology of Pain and Exercise in Chronic Musculoskeletal Pain: Innovative Methodological Approaches” Presented at the ***University of Limerick, Physical Education and Sports Sciences program***, Limerick Ireland, July 2016.

“Functional and structural brain imaging of the exercise and pain paradox” Presented at the ***IFOMPT International Conference***, Glasgow, Scotland, July 2016.

“Psychobiology of pain, fatigue and exercise” Presented at the ***Annual Meeting of the Academy of Behavioral Medicine Research***, Whistler, BC, June, 2016.

“Exercise for the Treatment of Chronic Musculoskeletal Pain: Current Understanding and Future Directions” Presented at the ***Annual Meeting of the American College of Sports Medicine***, Boston, MA, June, 2016.

“Impact of exercise training on pain and brain function in Gulf War Veterans or Never get involved in a land war in Asia” Presented to the ***Department of Family Medicine T32 Post-Doctoral Fellows***, Madison, WI, April, 2016.

“Centers for Disease Control multisite study: Aerobic capacity data” Presented to the ***CDC as part of a funded contract to UW- Madison***, Department of Kinesiology, Atlanta, GA, December, 2015.

“Deciphering post-exertion malaise” Presented as ***Medical Grand Rounds at the War Related Illness and Injury Study Center***, East Orange, NJ, April, 2015.

“A fit brain is a healthy brain” Presented at the ***Wisconsin Alzheimer’s Institute (WAI), Alzheimer’s Disease Annual Update***. Madison, WI, November, 2014.

“Deciphering post-exertion malaise” Presented at the ***Board of Director’s, Research Advisory Council meeting of the Solve ME/CFS Initiative (SMCI)****.* Denver, CO, October, 2014.

“Deciphering post-exertion malaise” ***Webinar given for the Solve ME/CFS Initiative***. Maidson, WI, September, 2014.

“Psychobiology of pain and exercise in chronic musculoskeletal pain” Presented at the ***1st Annual PERFORM Center Research Conference – Themed “Physical Activity and Brain Functions”****,* Concordia University, Montreal, CA, May, 2014.

“A fit brain is a healthy brain” Presented at Medical College of Wisconsin Symposium titled ***“Emerging Topics in Cognitive Impairment: From Prevention to Intervention”*** Wauwatosa, WI, March, 2014.

 “Psychobiology of pain and exercise in Gulf War illness” Part of a Symposium on Gulf War Veteran health - Presented at the ***Annual Meeting of the American Psychosomatic Society***, San Francisco, CA, March, 2014.

“Physical activity alters pain sensitivity in chronic musculoskeletal pain” Lecture given as part of the 18th Annual PhD Course “***Translational Neurobiology of the Pain System XVIII: Exercise and Pain*”**, Aalborg University, Aalborg, Denmark, December, 2013.

“A fit brain is a healthy brain” Presentation given at the ***12th Annual November lecture of the Wisconsin Alzheimer’s Disease Research Center, “Aging Strong: Reducing your Risk for Alzheimer’s”***, Madison, Wisconsin, November, 2013.

“Post-exertion malaise in CFS/ME: Definiton, potential mechanisms and future directions” Presentation at Cold Springs Harbor Banbury Center CFS meeting titled: ***“Decoding Clinical Trials to Improve Treatment of ME/CFS”***, Cold Springs Harbor, New York, September, 2012.

“Impact of exercise training on pain and brain function in Gulf War Veterans with chronic musculoskeletal pain” Presented at the ***Gulf War illness investigator meeting*** at the Office of Research and Development, Veterans Health Administration, Washington, DC, September, 2012.

“Has neuroimaging improved our understanding of chronic fatigue: relevance for Gulf War illness” ***Employee Education System*** continuing education seminar given at the VA Health Care System, Palo Alto, California, July, 2012.

“Diffusion tensor imaging in Gulf War Veterans with chronic musculoskeletal pain” Presentation to the ***Research Advisory Committee on Gulf War Illnesses*** (Jim Binns; Chair), Boston, Massachusetts, June, 2012.

“Physical Activity and Muscle Pain” Symposium for the ***Annual Meeting of the American Pain Society,*** Honolulu, Hawaii, May, 2012.

“Can Functional Neuroimaging Data Serve as a Biomarker for Chronic Fatigue Syndrome?” Symposium presentation for the ***Annual Meeting of the International Neuropsychological Society***, Montreal, Canada, February, 2012.

“Can Functional Neuroimaging Data Serve as a Biomarker for Myalgic Encephalomyelitis / Chronic Fatigue Syndrome?” Presentation given at the ***National Institutes of Health State of the Knowledge Workshop on Myalgic Encephalomyelitis/Chronic Fatigue Syndrome***, Bethesda, Maryland, April 2011.

“Psychobiology of pain, fatigue and exercise in CFS/ME & FM” Webinar presentation for the ***CFIDS Association of America***, November, 2010.

“Psychobiology of pain and exercise in Gulf War Veterans with chronic musculoskeletal pain” Presentation to the ***Research Advisory Committee on Gulf War Illnesses*** (Jim Binns; Chair), Boston, Massachusetts, November 2010.

“Exercise and brain research in chronic fatigue syndrome” Presentation to the ***Wisconsin ME/CFS Association*** annual meeting, October, 2010.

“Psychobiology of pain, fatigue and exercise” Presentation to the ***Pain Research Group at the University of Utah***, Salt Lake City, Utah, January, 2010.

“Can Functional magnetic resonance imaging (fMRI) data serve as a biomarker for fatigue? Technological and methodological considerations” Presentation at Cold Springs Harbor Banbury Center CFS meeting titled: ***“From Infection to Neurometabolism: A Nexus for CFS”***, Cold Springs Harbor, New York, September, 2009.

“An introduction to the exercise psychology laboratory at the University of Wisconsin-Madison” Presentation at the ***Psychobiology Interest Group*** meeting at the ***Annual Meeting of the American College of Sports Medicine (ACSM)***, Seattle, Washington, June 2009.

“Imaging the cognitive modulation of pain in fibromyalgia” Presentation at the **Fifth Scientific Meeting of the TMJ Association: “Can Studies of Co-Morbities with TMJDs Reveal Common Mechanisms of Disease?”** Bethesda, Maryland, June, 2008.

“The influence of physical activity on brain processing of pain in women with fibromyalgia” Symposium “Exercise – Cause of and Cure for Pain” Presentation at the ***55th annual meeting of the American College of Sports Medicine (ACSM)***, Indianapolis, Indianapolis, June, 2008.

“Exercise, Pain and the Brain” Presentation at the ***30th Annual Meeting of the Mid-Atlantic Regional Chapter of the American College of Sports Medicine*, Harrisburg, Pennsylvania, November, 2007**

“Functional neuroimaging of pain in Gulf War veterans with chronic musculoskeletal pain” Presentation at the ***Department of Veterans Affairs (VA) Pain Research Summit*,** Palm Springs, California, September 2007

“Psychophysiological aspects of muscle pain and exercise in health and disease” Presentation to the ***Department of Health, Nutrition and Exercise Sciences, University of Delaware,*** Newark, Delaware, March 2007

“Functional Neuroimaging of Mental Fatigue” Presentation to the ***Department of Health, Nutrition and Exercise Sciences, University of Delaware,*** Newark, Delaware, March 2007

“Psychophysiological aspects of muscle pain and exercise in health and disease” Presentation to the ***Kinesiology Department at the University of Illinois***, Champagne-Urbana, Illinois, November, 2006.

“The psychophysiology of emotion: applications to physical activity” Featured Science Session at the ***53rd annual meeting of the American College of Sports Medicine (ACSM)***, Denver, Colorado, June, 2006.

“Imaging the cognitive modulation of pain in fibromylagia” Presenation at the first annual ***National Institutes of Health, Pain Consortium Symposium: Highlights in Pain Research 2006***. Presentation to the National Institutes of Health, NIND, Natcher Conference Center Auditorium, Bethesda, Maryland, April 2006.

“Fibromyalgia and the central nervous system” Presentation at the ***3ème Journée Scientifique de l’Association Française du Syndrome de Fatigue Chronique et Fibromyalgie***, Presentation to the ***Chronic Fatigue Syndrome and Fibromyalgia Association of France*** at the Annual Scientific Meeting for Chronic Fatigue syndrome and Fibromyalgia., Hotel Scibe, Paris, France, April 2005.

“A Functional neuroimaging exploration of mental energy and fatigue” Presentation to the ***North American Branch of the International Life Sciences Institute Technical Committee on Energy*** at the ILSI NA home office in Washington, DC, March, 2005.

“Medically Unexplained Pain and Nociceptive Dysregulation” Presentation to the ***Neuropsychology & Neuroscience Laboratory at Kessler Medical Rehabilitation Research & Education Corp***., West Orange, New Jersey, February 2005.

“Unexplained pain and fatigue: the veteran experience and implications for civilians (I)” Workshop conducted at the ***American Academy of Physical Medicine and Rehabilitation Annual Assembly***, Phoenix, Arizona, October, 2004.

“Pain sensitivity in Gulf veterans with medically unexplained musculoskeletal pain” Presentation to the ***Research Advisory Committee for Gulf War illness*** at the Veterans Association Medical Center and in conjunction with the ***War Related Illness and Injury Study Center***, East Orange, New Jersey, June 2004.

“Fibromyalgia: The central nervous system and pain” Presentation to the American Association for Chronic Fatigue syndrome at the annual awards banquet of the ***American Association for Chronic Fatigue Syndrome – Sixth international Conference,*** Chantilly, Virginia, January 2003.

“Are there sex differences in perceived exertion responses to exercise?” Expert panel member and invited speaker at the ***Annual Meeting of the American College of Sports Medicine,*** St. Louis, Missouri, June 2002.

“Functional imaging of pain in Chronic Fatigue Syndrome and Fibromyalgia: Central Nervous System Sensitivity or Hypervigilance” Presentation to the Department of Radiology functional imaging group, UMDNJ – New Jersey Medical School, Newark, New Jersey, July 2001.

“Scaling Know How in Perceived Exertion: A Workshop for Practitioners and Researchers” Expert panel member and invited speaker at the ***Annual Meeting of the American College of Sports Medicine,*** Baltimore, Maryland, June 2001.

“Fibromyalgia: how researchers are studying unexplained pain” Presentation to the Arthritis Foundation and the Christian Health Care Center at a day long conference; ***Living with Arthritis: Update and Treatment Options****,* Paramus, New Jersey, March 2001.

“Current Status of Fibromyalgia and Chronic Fatigue Syndrome Research” Presentation to the Middle New York Fibromyalgia and Chronic Fatigue Syndrome Group, Saugerties, New York, October 2000.

“Fibromyalgia: research update” Presentation to the New Jersey Chapter of the Arthritis Foundation and Robert Wood Johnson University Hospital (with B.H. Natelson) at the ***Third Annual Arthritis Patient/Family Conference***, New Brunswick, New Jersey, May 2000.

“Fibromyalgia and nociceptive dysregulation”Presentation to the departments of Psychiatry and Neuroscience at the UMDNJ-New Jersey Medical School, Newark, New Jersey, December 1999.

“Why do muscles hurt during intense exercise?” Chair member of an invited symposium titled “Pain During and Following Acute Exercise” (with P.J. O’Connor, C.R. Chapman, J.N. Myers, & K.F. Koltyn) at the ***Annual Meeting of the American College of Sports Medicine***, Seattle, Washington, June 1999.

“Muscle pain during exercise” Presentation to Chronic Fatigue Syndrome Center at the Veterans Administration Hospital,East Orange. , New Jersey, October 1998.

### *PRESENTATIONS OF ORIGINAL RESEARCH*

1. Gunnar A. Roberge, Aaron J. Stegner, Alex E. Boruch, Jacob V. Ninneman, Jacob B. Lindheimer, Glenn R. Wylie, Stephanie M. Van Riper, Michael J. Falvo, Laura D. Ellingson-Sayen, Dane B. Cook. Are Physical Activity And Sedentary Behavior Predictive Of Pain In Veterans With Chronic Widespread Pain? ***Annual Meeting of the American College of Sports Medicine***, May, 2023.
2. Jacob V. Ninneman, Aaron J. Stegner, Alexander E. Boruch, Andrew McVea, Brecca Bettcher, Matthew Smith, Gunnar Roberge, Jacob B. Lindheimer, Susen M. Schroeder, Bradley T. Christian, Dane B. Cook. The Neuroinflammatory Response To Exercise In Chronic Multisymptom Illness: A Feasibility Study. ***Annual Meeting of the American College of Sports Medicine***, May, 2023.
3. Alexander E. Boruch, Aaron Stegner, Jacob Lindheimer, Glenn Wylie, Jacob Ninneman, Thomas Alexander, Jacquelyn Klein-Adams, Matthew Watson, Duncan Ndirangu, Gunnar Roberge, Michael J. Falvo, Dane B. Cook. Post-exertional Malaise In Gulf War Illness: Symptom Burden And Inflammation. ***Annual Meeting of the American College of Sports Medicine***, May, 2023.
4. Jacob B. Lindheimer, Alexander E. Boruch, Ellen E. Barhorst, Tessa J. Rayne, Gunnar A. Roberge, Sailor M. Brukardt, Zoie T. Leitel, Michael J. Falvo, Dane B. Cook. Minimizing Risks Of Acute Exercise In Chronic Multisymptom Illness: A Randomized, Controlled, Dose-response, Crossover Study. ***Annual Meeting of the American College of Sports Medicine***, May, 2023.
5. Aaron J. Stegner, Thomas Alexander, Alexander E. Boruch, Jacquelyn C. Klein-Adams, Jacob B. Lindheimer, Duncan S. Ndirangu, Jacob V. Ninneman, Gunnar A. Roberge, Susen M. Schroeder, Matthew Smith, Matthew Watson, Glenn Wylie, Michael J. Falvo, Dane B. Cook. Standardized Acute Exercise Does Not Affect Day-to-day Physical Activity In Veterans With Gulf War Illness. ***Annual Meeting of the American College of Sports Medicine***, May, 2023.
6. Nora L. Nock, E. Amy Janke, Mark Stoutenberg, **Dane B. Cook**, James W. Whitworth, Adam J. Gordon (In Submission). Exercise as Medicine for People with a Substance Use Disorder: An ACSM Call to Action Statement. ***Annual Meeting of the American College of Sports Medicine***, May, 2023.
7. Stephanie M. Van Riper, Andrew L. Alexander, Jill N. Barnes, Kelli F. Koltyn, Aaron J. Stegner, Douglas C. Dean, Gunnar A. Roberge, Steven R. Kecskemeti, Nicholas P. Gretzon, **Dane B. Cook**. Neurite Orientation Dispersion Density Imaging Indicates Positive Associations between Physical Activity and White Matter Structure. ***Annual Meeting of the American College of Sports Medicine***, May, 2022.
8. Alexander E. Boruch, Jacob B. Lindheimer, Aaron J. Stegner, Jacquelyn C. Klein-Adams, Jacob V. Ninneman, Nicholas Gretzon, Matthew Watson, Thomas Alexander, Duncan Ndirangu, Stephanie M. Van Riper, Glenn Wylie, Michael J. Falvo, **Dane B. Cook**. Cytokines Do Not Mediate Symptom Responses Following Exercise In Veterans With Gulf War Illness. ***Annual Meeting of the American College of Sports Medicine***, May, 2022.
9. Jacob V. Ninneman, Nicholas P. Gretzon, Aaron J. Stegner, Jacob B. Lindheimer, Michael J. Falvo, Glenn Wylie, Alexander E. Boruch, Doug C. Dean, III, Gunnar A. Roberge, Kelli F. Koltyn, **Dane B. Cook**. Physical Activity Does Not Mediate Pain And Brain Volume Relationships In Veterans With Chronic Pain. ***Annual Meeting of the American College of Sports Medicine***, May, 2022.
10. Jacob B. Lindheimer, Ryan J. Dougherty, Stephanie M. Van Riper, Michael J. Falvo, **Dane B. Cook**. Cardiorespiratory Parameters Do Not Account For Elevated Perceived Exertion In Myalgic Encephalomyelitis/Chronic Fatigue Syndrome. ***Annual Meeting of the American College of Sports Medicine***, May, 2022.
11. Tessa J. Rayne, Alexander E. Boruch, Ellen E. Barhorst, Gunnar A. Roberge, Michael J. Falvo, **Dane B. Cook**, FACSM1, Jacob B. Lindheimer. Pain Symptoms And Sensitivity In Gulf War Illness: Relevance To Exercise Prescription. ***Annual Meeting of the American College of Sports Medicine***, May, 2022.
12. Aaron J. Stegner1, Ryan J. Dougherty2, Laura D. Ellingson, FACSM3, Nicholas P. Gretzon1, Jacob B. Lindheimer4, Jacob V. Ninneman1, Stephanie M. Van Riper5, Patrick J. O'Connor, FACSM6, **Dane B Cook**. Dependability Of Exertion And Muscle Pain Ratings During Resistance Training In Veterans With Chronic Pain. ***Annual Meeting of the American College of Sports Medicine***, May, 2022.
13. Pewowaruk, RJ, Gaitán, JM, Mitchell, CC, Lose, SR, Dougherty, RJ, Boots, E, **Cook, DB**, Okonkwo, OC, Gepner, AD. Effects of a 26-week randomized, controlled exercise intervention on arterial stiffness, endothelial function, and cognition in adults at risk for Alzheimer disease. American Heart Association Scientific Sessions Meeting. Boston, MA. November, 2021.
14. Gaitán, J.M., Dougherty, R.J., Lose, S.R., Maxa, K.M., Vesperman, C.J., **Cook, D.B**., Okonkwo, O.C. Cardiorespiratory fitness bolsters cerebrovascular health in adults at risk for Alzheimer’s disease. Alzheimer’s Association International Conference, Amsterdam, Netherlands, July, 2021.
15. Dougherty RJ, Jonaitis E, Johnson S, Okonkwo O, **Cook DB**. Cardiorespiratory fitness mitigates brain atrophy and cognitive decline in preclinical Alzheimer’s disease. Accepted for oral presentation at the 2021 AAIC. Amsterdam, Netherlands. July 2021.
16. **Cook, DB**, MJ Falvo, AJ, Stegner, G Wylie, J Lindheimer, N Gretzon, JV Ninneman, SM Van Riper, DS Ndirangu, T Alexander. Symptom Response Patterns to Exercise in Veterans with Gulf War Illness. ***Annual Meeting of the American College of Sports Medicine***, Virtual, May, 2021.
17. Ninneman, JV, NP Gretzon, AJ Stegner, JB Lindhemer, MJ Falvo, G Wylie, NE Almassi, SM Van Riper, AE Boruch, DC Dean, KF Koltyn & **DB Cook**. Associations between Physical Activity and Brain Grey Matter in Gulf War Veterans with Chronic Pain. ***Annual Meeting of the American College of Sports Medicine***, Virtual, May, 2021.
18. Boruch, AE, JB Lindheimer, AJ Stegner, JV Ninneman, NP Gretzon, NE Almassi, SM Van Riper, JC Klein-Adams, MA Watson, G Wylie, MJ Falvo & **DB Cook.** Cardiopulmonary Responses to Submaximal Exercise Differ Between Veterans With and Without Gulf War Illness. ***Annual Meeting of the American College of Sports Medicine***, Virtual, May, 2021.
19. Stegner, AJ, NE Almassi, RJ Dougherty, LD Ellingson, NP Gretzon, JV Ninneman, SM Van Riper, PJ O’Connon & **DB Cook**. Randomized Trial of Resistance Exercise and Follow-Up in Gulf War Veterans with Chronic Musculoskeletal Pain. ***Annual Meeting of the American College of Sports Medicine***, Virtual, May, 2021.
20. Lindheimer, JB, EE Bsrhorst, AE Boruch & DB Cook. Pain-related Post-exertional Malaise In People With Myalgic Encephalomyelitis/chronic Fatigue Syndrome And Fibromyalgia: A Meta-analysis. ***Annual Meeting of the American College of Sports Medicine***, Virtual, May, 2021.
21. Perkins S, **DB Cook**, M Herring, J Meyer. State Anxiety Response to Acute Exercise May Vary Based on Intensity Among Depressed Women. ***Annual Meeting7 of the American College of Sports Medicine***, Virtual, May, 2021.
22. Julian M. Gaitán, Ryan J. Dougherty, Sarah R. Lose, Kaitlin M. Maxa, Clayton J. Vesperman, Dane B. Cook, Ozioma C. Okonkwo. Cardiorespiratory fitness bolsters cerebrovascular health in adults at risk for Alzheimer’s disease. ***Alzheimer’s Association International Conference***, Amsterdam, Netherlands, July, 2021.
23. **Cook, DB,** JB Lindheimer, MJ Falvo, JM S Lin, ER Unger, EJ Dougherty, SM VanRiper & MCAM Workgroup. Cardiopulmonary, metabolic and perceptual responses during exercise in ME/CFS: The MCAM study. ***Bi-annual meeting of the International Association of Chronic Fatigue Syndrome / Myalgic Encephalomyelitis,*** Stony Brook, NY, June 2020. **In Person cancelled due to Covid-19.**
24. Lindheimer, JB, WE Andrae, EE Barhorst, TJ Rayne, MJ Falvo & **DB Cook**. Perceived exertion in ME/CFS and Fibromyalgia: A meta-analysis of exercise challenge studies. ***Bi-annual meeting of the International Association of Chronic Fatigue Syndrome / Myalgic Encephalomyelitis,*** Stony Brook, NY, June 2020.
25. Lindheimer, JB, AJ Stegner, GR Wylie, JC Klein-Adams, NE almassi, JV Ninneman, SM VanRiper, RJ Dougherty, MJ Falvo & **DB Cook**. Post-exertional malaise in Veterans with Gulf War Illness: A multi-site case-control study. ***Bi-annual meeting of the International Association of Chronic Fatigue Syndrome / Myalgic Encephalomyelitis,*** Stony Brook, NY, June 2020. **In Person cancelled due to Covid-19.**
26. Vesperman, C, S Schultz, LL Law, RJ Dougherty, Y Ma, JM Oh, DF Edwards, CL Gallagher, BB Bendlin, CM Carlsson, S Asthana, BP Hermann, MA Sager, SC Johnson, **DB Cook** & OC Okonkwo. Cardiorespiratory fitness and age-related cognitive decline in a cohort enriched with risk factors for AD. ***Annual meeting of the International Neurological Society***. Denver, CO, February, 2020.
27. Van Riper, SM, AJ Stegner, JV Ninneman, AE Boruch, JB Lindheimer, RJ Dougherty, NE Almassi, LD Ellingson, PJ O’Connor & **DB Cook**. Pain Modulation is Associated with Moderate Physical Activity in Gulf War Veterans with Chronic Pain. ***Annual Meeting of the American College of Sports Medicine***, San Francisco, CA, May, 2020. **In Person cancelled due to Covid-19.**
28. Gansen, JL, JL Delventura, ME Hammons, AJ Stegner & **DB Cook**. Psychological flexibility and catastrophizing predict pain interference in Veterans with chronic pain: Physical therapy considerations. ***Annual Meeting of the American College of Sports Medicine***, San Francisco, CA, May, 2020. **In Person cancelled due to Covid-19.**
29. Stegner, AJ, LD Ellingson, NP Gretzon, PJ O’Connor & **DB Cook**. Influence of Resistance-Exercise Training on Total Physical Activity in Gulf War Veterans with Chronic Pain. ***Annual Meeting of the American College of Sports Medicine***, San Francisco, CA, May, 2020. **In Person cancelled due to Covid-19.**
30. Ninneman, J. AJ Stegner, JB Lindheimer, NE Almassi, SM VanRiper, NP Gretzon, AE Boruch, RJ Dougherty, LD Ellingson-Sayen, & **DB Cook**. The influence of physical activity on pain sensitivity in Gulf War Veterans with chronic pain. ***Annual Meeting of the American College of Sports Medicine***, San Francisco, CA, May, 2020. **In Person cancelled due to Covid-19.**
31. Lindheimer, JB, EE Barhorst, WE Andrae, TJ Rayne, MJ Falvo & **DB Cook**. Perceived exertion is elevated in Chronic Fatigue Syndrome and fibromyalgia: A meta-analysis of case-control studies. ***Annual Meeting of the American College of Sports Medicine***, San Francisco, CA, May, 2020. **In Person cancelled due to Covid-19.**
32. Vesperman, C, S Schultz, LL Law, RJ Dougherty, Y Ma, JM Oh, DF Edwards, CL Gallagher, BB Bendlin, CM Carlsson, S Asthana, BP Hermann, MA Sager, SC Johnson, **DB Cook** & OC Okonkwo Age-related cognitive dysfunction is ameliorated by cardiorespiratory fitness in a cohort enriched with AD risk. ***Annual meeting of the International Neurological Society***. New York, NY, February, 2019.
33. VanRiper, SM, AJ Stegner, JV Ninneman, AE Boruch, JB Lindheimer, RJ Dougherty, NE Almassi, LD Ellingson, PJ O’Connor & DB Cook. Pain Modulation in Response to Resistance Exercise Training in Gulf War Veterans with Chronic Pain. ***Annual Meeting of the American College of Sports Medicine***, Orlando, Florida. May 2019.
34. Dougherty, RJ, C Vesperman, B Mergen, M Gaitan, S Lose, S Johnson, O Okonkwo, **DB Cook**. Aerobic fitness protects against age-related cognitive decline in a population at risk for Alzheimer’s disease. ***Annual Meeting of the American College of Sports Medicine***, Orlando, Florida. May 2019.
35. Dougherty RJ, Boots EA, Okonkwo OC, Cook DB. Do physical activity behaviors predict fitness gains to an aerobic exercise trial? ***Annual Meeting of the American College of Sports Medicine***, Orlando, Florida. May 2019.
36. Ninneman, J. AJ Stegner, PJ O’Connor, JB Lindheimer, NE Almassi, NP Gretzon, RJ Dougherty, KM Crombie, SM VanRiper & **DB Cook**. Feasibility of Resistance Exercise Training in Gulf War Veterans with Widespread Pain. ***Annual Meeting of the American College of Sports Medicine***, Orlando, Florida. May 2019.
37. Lindheimer, JB, AJ Stegner, RJ Dougherty, SM VanRiper, NE Almassi, JV Ninneman, LD Ellingson, PJ O’Connor & DB Cook. Acute Pain and Fatigue Responses to Resistance Exercise among Gulf War Veterans with Chronic Pain. ***Annual Meeting of the American College of Sports Medicine***, Orlando, Florida. May 2019.
38. Gaitan, JM, SR Lose, RJ Dougherty, JM Oh, CL Gallagher, CM Carlsson, HA Rowley, Y Ma, S Asthana, MA Sager, BP Hermann, SC Johnson, BB Bendlin, **DB Cook**, & O Okonkwo. Fitness Trumps Fatness: An Examination of Cognition and Cerebral Volume. ***Annual Meeting of the American College of Sports Medicine***, Orlando, Florida. May 2019.
39. Cruz-Maldonado, G, M.Perez, LD Ellingson, **DB Cook** & JD Meyer. Improving Acute Exercise Prescription in Depression: Predictors of optimal intensity for improving depressive mood. ***Annual Meeting of the American College of Sports Medicine***, Orlando, Florida. May 2019.
40. Alaedini, A. & **D.B. Cook**. Gastrointestinal dysfunction and systemic immune response to antigen translocation in myalgic encephalomyelitis/chronic fatigue syndrome. Digestive Disease Week, Washington, DC, June, 2018.
41. Dougherty, R.J., H.Y. Moon, E.A. Boots, A. Becke, E. Duezel, M. Wagner, **D.B. Cook**, H. van Praag, & O.C. Okonkwo. The effect of aerobic exercise training on serum BDNF in preclinical Alzheimer’s disease. ***Alzheimer’s Association International Conference***, Chicago, IL, July, 2018.
42. Ennis, G.E., R.J. Dougherty, E.A. Boots, D.F. Edwards, R.L. Koscik, E. Duezel, M. Wagner, C.M. Carlsson, C.L. Gallagher, B.B. Bendlin, S. Asthana, M.A. Sager, B.P. Hermann, S.C. Johnson, **D.B. Cook**, O.C. Okonkwo. Aerobic training is related to cognitive health in adults at risk for Alzheimer’s disease: Results from the aeRobic Exercise And Cognitive Health (REACH) pilot study. ***Alzheimer’s Association International Conference***, Chicago, IL, July, 2018.
43. Van Riper, S.M., A.J. Stegner, J.B. Lindheimer, R.J. Dougherty, N.E. Almassi, J.V. Ninneman, L.D. Ellingson, P.J. O'Connor, FACSM, **D.B. Cook**, FACSM. Pain Modulation in Response to Resistance Exercise Training in Gulf War Veterans with Chronic Pain. Presented at the ***Annual Meeting of the American College of Sports Medicine***, Minneapolis, MN, May, 2018.
44. Dougherty, R.J., J.B. Lindheimer, A.J. Stegner, S. Van Riper, J.V. Ninneman, O.C. Okonkwo, **D.B. Cook**, FACSM. University of Wisconsin - Madison, Madison, WI. Fitness And Age-related Associations: Is VO2peak A Valid Measure For Older Adults? Presented at the ***Annual Meeting of the American College of Sports Medicine***, Minneapolis, MN, May, 2018.
45. Lindheimer, J.B., A.J. Stegner, S.M. VanRiper, R.J. Dougherty, N.E. Almassi, J.V. Ninneman, L.D. Ellingson, P.J. O’Connor (FASCM), **D.B. Cook** (FASCM). Resistance training does not alter pain sensitivity in Gulf War Veterans with chronic musculoskeletal pain. ***Annual Meeting of the American College of Sports Medicine***, Minneapolis, MN, May, 2018.
46. Meyer J., K. Crombie, **D.B. Cook**, C. Hillard, K. Koltyn. Endocannabinoid and mood responses to moderate and preferred intensity exercise sessions in major depressive disorder. Accepted for poster presentation at ***Society of Behavioral Medicine Annual Meeting,*** New Orleans, LA, April, 2018.
47. Perez, M., J Meyer, LD Ellingson, C Raison, C Coe & **DB Cook**. Changes in acute inflammatory markers in response to exercise in major depressive disorder. ***Society of Behavioral Medicine Annual Meeting,*** New Orleans, LA, April, 2018.
48. Vesperman, C., L.L. Law, J. Oh, R.J. Dougherty, D.F. Edwards, R.L. Koscik, C.L. Gallagher, C.M. Carlsson, H. Rowley, B.B. Bendlin, S. Asthana, M.A. Sager, B.P. Hermann, S.C. Johnson, **D.B. Cook**, O.C. Okonkwo. Cardiorespiratory capacity attenuates age-associated aggregation of white matter hyperintensities: Findings from the Wisconsin Registry for Alzheimer’s Prevention. Presented at the ***Annual meeting of the International Neurological Society***. 2018.
49. Maxa, K.M., S. Berman, L.A. Rivera-Rivera, L.L. Law, R.J. Dougherty, C.K.C. Mitchell, D.F. Edwards, R.L. Koscik, C.L. Gallagher, C.M. Carlsson, B.B. Bendlin, S. Asthana, M.A. Sager, B.P. Hermann, O. Wieben, S.C. Johnson, **D.B. Cook**, O.C. Okonkwo. Sedentary Behavior Associates with Vessel Pulsatility in the Brains of Adults at Risk for Alzheimer’s Disease. Presented at the ***Annual meeting of the International Neurological Society***. 2018.
50. Dougherty, R.J., E.A. Boots, H. Rowley, B. Hermann, M. Sager, S.C. Johnson, D.F. Edwards, **D.B. Cook** & O.C. Okonkwo. Exercise training and cerebral blood flow in preclinical Alzheimer’s disease: Results from the aeRobic Exercise and Cognitive Health (REACH) Study. Presented at the ***Alzheimer’s Association International Conference***, London, England, July, 2017.
51. Law, L.L., S.A. Schultz, R.N. Rol, R.J. Dougherty, D.F. Edwards, J.A. Einerson, R.L. Koscik, C.L. Gallagher, C.M. Carlsson, B.B. Bendlin, H. Zetterberg, K. Blennow, S. Asthana, M.A. Sager, B.P. Hermann, S.C. Johnson, J.H. Stein, **D.B. Cook**, O.C. Okonkwo. Moderate intensity physical activity associates with CSF biomarkers in preclinical Alzheimer’s disease. Presented at the ***Alzheimer’s Association International Conference***, London, England, July, 2017.
52. Dougherty, R.J., E.A. Boots, K. Cody, S.A. Schultz, D.F. Edwards, S.C. Johnson, J. Einerson, O.C. Okonkwo, & **D.B. Cook**. Fitness, independent of physical activity is associated with cerebral blood flow in older adults at-risk for Alzheimer’s disease. Presented at the ***Annual Meeting of the American College of Sports Medicine***, Denver, CO, May, 2017.
53. Falvo, M.J., J., Lindheimer, J.C., Klein, D. Ndirangu, Y. Chen, M.R. Condon & **D.B. Cook**. Altered Breathing Pattern Responses to Exercise in Veterans with Fatiguing Illness. Presented at the ***Annual Meeting of the American College of Sports Medicine***, Denver, CO, May, 2017.
54. Van Riper, S.M., Jin-Mann S. Lin, E.R. Unger, R.J. Dougherty, Multisite Clinical Assessment of ME/CFS (MCAM) Workgroup & **D.B. Cook**. The Validity of Oxygen Uptake Efficiency Measures in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome. Presented at the ***Annual Meeting of the American College of Sports Medicine***, Denver, CO, May, 2017.
55. McDowell, C.P., **D.B. Cook** & M.P. Herring. The Effects of Exercise Training on Anxiety in Fibromyalgia Patients: A Quantitative Synthesis. Presented at the ***Annual Meeting of the American College of Sports Medicine***, Denver, CO, May, 2017.
56. Lindheimer, J., A.J. Stegner, S.M. Van Riper, R.J. Dougherty, L.D. Ellingson & **D.B. Cook**. Influence Of Physical Activity And Sedentary Behavior On Anticipation-related Pain Sensitivity In Gulf War Veterans With Chronic Muscle Pain. Presented at the ***Annual Meeting of the American College of Sports Medicine***, Denver, CO, May, 2017.
57. Stegner, A.J., J. Lindheimer, R.J. Dougherty, S.M. Van Riper, L.D. Ellingson & **D.B. Cook**. Physical Activity and Brain Responses during Pain Modulation in Gulf Veterans with Chronic Muscle Pain. Presented at the ***Annual Meeting of the American College of Sports Medicine***, Denver, CO, May, 2017.
58. Meyer J.D., L.D. Ellingson & **D.B. Cook**. Affective improvements following acute exercise are not dependent on habitual physical activity levels in MDD. Accepted for poster presentation at ***Society of Behavioral Medicine Annual Meeting,*** San Diego, CA, April, 2017.
59. Bell, D.R., K. Pfeiffer, L. Cadmus-Bertram, S.M. Trigsted, A. Kelly, E.G. Post, J.M. Hart, **D.B. Cook**, W. Dunn, C. Kuenze. Objectively Measured Physical Activity in Patients after ACL Reconstruction. Presented at the ***Annual Meeting of the American College of Sports Medicine***, Denver, CO, May, 2017.
60. Dougherty, RJ, S.A. Schultz, E.A. Boots, S.C. Johnson, D.F. Edwards, O.C. Okonkwo, & **D.B. Cook**. Cardiorespiratory fitness is associated with hippocampal volume and episodic memory in a population at risk for Alzheimer’s disease. Presented at the ***Alzheimer’s Association International Conference***, Toronto, Canada, July, 2016.
61. Lindheimer, J., J.D. Meyer, R. J. Dougherty, M.R. Shields, L.D. Ellingson, A.J. Stegner & **D.B. Cook**. Post-exertion malaise: Variability of symptoms across two studies of chronic fatigue syndrome patients. Presented at the ***Bi-annual meeting of the International Association of Chronic Fatigue Syndrome / Myalgic Encephalomyelitis,*** Fort Lauderdale, FL, October, 2016.
62. Dougherty, R.J., M.R. Shields, J.D. Meyer, S.M. Van Riper, L.D. Ellingson, J. Lindheimer, A.J. Stegner, & **D.B. Cook**. Physical Activity, Sedentary Behavior and Symptoms before and after Post-Exertion Malaise in Myalgic Encephalomyelitis / Chronic Fatigue Syndrome. Presented at the ***Bi-annual meeting of the International Association of Chronic Fatigue Syndrome / Myalgic Encephalomyelitis,*** Fort Lauderdale, FL, October, 2016.
63. **Cook, D.B**., Jin-Mann S. Lin, E.R. Unger, R.J. Dougherty, S.M. Van Riper, & MCACM Workgroup. Exercise testing data from the Multi-Site Clinic Assessment of Myalgic Encephalomyelitis /Chronic Fatigue Syndrome (MCAM) Study. Presented at the ***Bi-annual meeting of the International Association of Chronic Fatigue Syndrome / Myalgic Encephalomyelitis,*** Fort Lauderdale, FL, October, 2016.
64. **Cook, D.B.**, J.D. Meyer, M.R. Shields, , R. J. Dougherty, S.M. Van Riper, L.D. Ellingson, J. Lindheimer & A.J. Stegner. Functional Neural Consequences of Post-Exertion Malaise in Myalgic Encephalomyelitis /Chronic Fatigue Syndrome (ME/CFS). Presented at the ***Bi-annual meeting of the International Association of Chronic Fatigue Syndrome / Myalgic Encephalomyelitis,*** Fort Lauderdale, FL, October, 2016.
65. Van Riper, S.M., A.J. Stegner, L.D Ellingson, K.F. Koltyn, A. Alexander & **D.B. Cook**. Physical Activity, Mood Symptoms, and White Matter Integrity in Gulf War Veterans with Chronic Pain. Presented at the ***Annual Meeting of the American College of Sports Medicine***, Boston, MA, May, 2016.
66. Ellingson, L.D., & **D.B. Cook**. Using Real-Time Feedback to Target Reductions in Sedentary Behavior.Presented at the ***Annual Meeting of the American College of Sports Medicine***, Boston, MA, May, 2016.
67. Dougherty, R.J., E.A. Boots, S.A. Schultz, S.C. Johnson, O.C. Okonkwo, & **D.B. Cook**. Influence of VO2peak Criteria on Aging and Alzheimer’s Research. Presented at the ***Annual Meeting of the American College of Sports Medicine***, Boston, MA, May, 2016.
68. Stegner, A.J., L.D. Ellingson, S.M. Van Riper & **D.B. Cook**. Physical activity and pain modulation in Gulf War Veterans with chronic muscle pain. Presented at the ***Annual Meeting of the American College of Sports Medicine***, Boston, MA, May, 2016.
69. Stegner, A.J. & **D.B. Cook.** Resistance exercise training in Gulf War Veterans chronic unexplained muscle pain: Impact on pain, fatigue, mood and global impression of change. Presented at the ***Annual Meeting of the American Pain Society***, Austin, TX, May, 2016.
70. Van Riper, S.M., A.J. Stegner, L.D. Ellingson, K.F. Koltyn, A.L. Alexander & **D.B. Cook**. Investigation of cerebral white matter integrity, physical activity behaviors and pain symptoms in Gulf War Veterans with chronic musculoskeletal pain. Presented at the ***Annual Meeting of the American Pain Society***, Austin, TX, May, 2016.
71. Zgierska, A., C.A. Burzinski, **D.B. Cook**, A.J. Stegner & J. Kloke. Mindfulness mediation reduced pain severity and sensitivity in opioid-treated chronic low back pain. Presented at the ***Annual meeting of the American Society for Addiction Medicine***. Austin, TX, April, 2015.
72. Boots, E.A., S.A. Schultz, J.M. Oh, R.J. Dougherty, D.F. Edwards, J.A. Einerson, C.E. Korcarz, H.A. Rowley, B.B. Bendlin, S. Asthana, M.A. Sager, B.P. Hermann, S.C. Johnson, J.H. Stein, **D.B. Cook**, & O.C. Okonkwo. Cardiorespiratory capacity correlates with cerebral blood flow, white matter hyperintensities, and cognition in preclinical Alzheimer's disease. Presented at the ***Annual Meeting of the Alzheimer’s Association International Conference***, Washington, DC, July, 2015.
73. Schultz, S.A., E.A. Boots, R.J. Dougherty, B.F. Darst, S. Yu, T. Kirby, D.F. Edwards, J.A. Einerson, C.E. Korcarz, H. Zetterberg, K. Blennow, C.M. Carlsson, B.B. Bendlin, S. Asthana, M. A. Sager, B.P. Hermann, S.C. Johnson, J.H. Stein, C.D. Engelman, **D.B. Cook**, & O.C. Okonkwo. Cardiorespiratory capacity modifies the association between a polygenic risk score and CSF biomarkers in preclinical Alzheimer’s disease. Presented at the ***Annual Meeting of the Alzheimer’s Association International Conference***, Washington, DC, July, 2015.
74. Schultz, S.A., R.J. Dougherty, E.A. Boots, **D.B. Cook** & O.C. Okonkwo. Cardiorespiratory capacity attenuates the influence of age and amyloid-β on cognition. Presented at the ***Annual meeting of the International Neurological Society***. Denver, CO, February, 2015.
75. Dougherty, R.J., M.R. Shields, J.D. Meyer, S.M. Van Riper, A.J. Stegner, I. Schwabacher & **D.B. Cook**. Post-exertion malaise in ME/CFS: Brain and behavioral interactions. *Medicine and Science in Sports and Exercise*, 47(5 Suppl.): S-S. Presented at the ***Annual Meeting of the American College of Sports Medicine***, San Diego, CA, May, 2015.
76. Ellingson, L.D., A. Stegner & **D.B. Cook**. Imaging of exercise-induced hypoalgesia in patients with fibromyalgia. *Journal of Pain*, (Suppl.): Presented at the ***Annual Meeting of the American Pain Society,*** Palm Springs, CA, May, 2015.
77. Van Riper, S., I. Schwabacher, A. Alexander & **D.B. Cook**. Physical activity and white matter integrity in Gulf War Veterans with chronic pain. *Medicine and Science in Sports and Exercise*, 47(5 Suppl.): S-S. Presented at the ***Annual Meeting of the American College of Sports Medicine***, San Diego, CA, May, 2015.
78. Shields, M.R., N. Schroeder, B. Utesch & **D.B. Cook**. Psychobiological adaptation across a competitive season in collegiate rowers. *Medicine and Science in Sports and Exercise*, 47(5 Suppl.): S-S. Presented at the ***Annual Meeting of the American College of Sports Medicine***, San Diego, CA, May, 2015.
79. Stegner, A.J., L.D. Ellingson, S.M. Van Riper & **D.B. Cook**. Physical activity and pain modulation in Gulf War Veterans with chronic unexplained muscle pain. *Medicine and Science in Sports and Exercise*, 47(5 Suppl.): S-S. Presented at the ***Annual Meeting of the American College of Sports Medicine***, San Diego, CA, May, 2015.
80. Meyer, J., K.F. Koltyn, J. Nitschke & **D.B. Cook**. Preferred intensity exercise does not improve mood more than prescribed intensity in major depressive disorder. *Medicine and Science in Sports and Exercise*, 47(5 Suppl.): S-S. Presented at the ***Annual Meeting of the American College of Sports Medicine***, San Diego, CA, May, 2015.
81. Crombie, K.M., A.G. Brellenthin, C.J. Hillard, **D.B. Cook**, N. Sehgal & K.F. Koltyn. Endocannabinoid and opioid system interactions in exercise-induced hypoalgesia. *Medicine and Science in Sports and Exercise*, 47(5 Suppl.): S-S. Presented at the ***Annual Meeting of the American College of Sports Medicine***, San Diego, CA, May, 2015.
82. Meyer, J.D., L.D. Ellingson & **D. B. Cook**. Characterizing sedentary and physical activity behaviors and their relationships to symptoms in depressed females. Accepted for poster presentation at ***Society of Behavioral Medicine Annual Meeting,*** San Antonio, TX, April, 2015.
83. Koltyn, K., A. Brellenthin, **D.B. Cook** & N. Sehgal. Influence of psychosocial variables on exercise-induced hypoalgesia. *Journal of Pain*, 15(4 Suppl.): S101. Presented at the ***Annual Meeting of the American Pain Society,*** Tampa, FL, May, 2014.
84. Okonkwo, O.C., J.M. Oh, S.A. Schultz, J. Larson, D. Edwards, **D.B. Cook**, R. Koscik, N.M. Dowling, C.L. Gallagher, C.M. Carlsson, B.B. Bendlin, A. LaRue, B.P. Hermann, H.A. Rowley, S. Asthana, B.T. Christian, S.C. Johnson & M. A. Sager. Physical activity modifies Alzheimer biomarkers in preclinical AD: Evidence from the Wisconsin Registry for Alzheimer’s Prevention. Presented at the ***Annual Meeting of the Alzheimer’s Association International Conference***, Copenhagen, Denmark, July, 2014.
85. Boots, E.A., J.M. Oh, S.A. Schultz, J. Larson, D. Edwards, **D.B. Cook**, R. Koscik, N.M. Dowling, C.L. Gallagher, C.M. Carlsson, H.A. Rowley, B.B. Bendlin, S. Asthana, B.P. Hermann, S.C. Johnson, M. A. Sager A. LaRue & Okonkwo, O.C. Cardiorespiratory fitness is associated with brain structure, cognition and mood in a middle-aged cohort at risk for Alzheimer’s disease. Presented at the ***Annual Meeting of the Alzheimer’s Association International Conference***, Copenhagen, Denmark, July, 2014.
86. Meyer, J.D., R. Dougherty, M. Shields, & **D.B. Cook**. Muscle Pain and Gene Expression: Acute Exercise Responses and Adaptations to Training. *Medicine and Science in Sports and Exercise*, 45(5 Suppl.): S278-S286. Presented at the ***Annual Meeting of the American College of Sports Medicine***, Indianapolis, IN, June, 2013.
87. Koltyn, K., A. Brellenthin, **D.B. Cook** & N. Sehgal. Mechanisms of exercise-induced hypoalgesia. *Medicine and Science in Sports and Exercise*, 45(5 Suppl.): S278-S286. Presented at the ***Annual Meeting of the American College of Sports Medicine***, Indianapolis, IN, June, 2013.
88. Brellenthin, A., **D.B. Cook**, N. Sehgal & K. Koltyn. Exercise-induced hypoalgesia and pain catastrophizing in women and men. *Medicine and Science in Sports and Exercise*, 45(5 Suppl.): S278-S286. Presented at the ***Annual Meeting of the American College of Sports Medicine***, Indianapolis, IN, June, 2013.
89. Stegner, A.J. & **D.B. Cook**. Evaluating the reliability and response bias in computer-administered pain rating scales: a generalizability theory analysis. *Journal of Pain*, 14(4 Suppl.): S22. Presented at the ***Annual Meeting of the American Pain Society,*** New Orleans, LA, May, 2013.
90. Ellingson, L.D., I. Sschwabacher & **D. B. Cook**. Catastrophizing is related to pain modulation in women with fibromyalgia. *Journal of Pain*, 14(4 Suppl.): S30. Presented at the ***Annual Meeting of the American Pain Society,*** New Orleans, LA, May, 2013.
91. VanRiper, S., L.D. Ellingson, A.J. Stegner & **D.B. Cook**. Symptoms, physical activity and pain sensitivity in chronic musculoskeletal pain: a comparison of veterans and civilians. *Journal of Pain*, 14(4 Suppl.): S30. Presented at the ***Annual Meeting of the American Pain Society,*** New Orleans, LA, May, 2013.
92. Janal, M.N., K.G. Raphael, L. Nemelivsky, **D.B. Cook**, R. Staud & D. Sirois. Thermal temporal summation in myofascial pain patients: influence of fibromyalgia. Presented at the ***IADR/AADR Annual Meeting***, Seattle, Washington, March, 2013.
93. Ellingson, L.D., L. Colbert & **D. B. Cook**. Physical activity is related to pain sensitivity in healthy women. *Medicine and Science in Sports and Exercise*, 44(5 Suppl.): S267-S958. Presented at the ***Annual Meeting of the American College of Sports Medicine***, San Francisco, CA, June, 2012.
94. Brellenthin, A.G., **D.B. Cook**, N. Sehgal & K.F. Koltyn. The influence of submaximal isometric exercise on temporal summation of heat pain. *Journal of Pain*, 13(4 Suppl.): S49. Presented at the ***Annual Meeting of the American Pain Society,*** Honolulu, HI, May, 2012.
95. Meyer, J.D., A.R. Light, A.J. Stegner, S. Shukla & **D. B. Cook**. Gene expression and symptom changes following a maximal exercise test in chronic fatigue syndrome. *Journal of Pain*, 13(4 Suppl.): S42. Presented at the ***Annual Meeting of the American Pain Society,*** Honolulu, HI, May, 2012.
96. Stegner, A.J. & **D.B. Cook**. Brain responses to painful and nonpainful stimuli in Gulf War Veterans with unexplained muscle pain. *Journal of Pain*, 13(4 Suppl.): S50. Presented at the ***Annual Meeting of the American Pain Society,*** Honolulu, HI, May, 2012.
97. Shields, M.R., L.D. Ellingson, A.J. Stegner & **D.B. Cook**. Functional connectivity during moderate pain in women with fibromyalgia. *Journal of Pain*, 13(4 Suppl.): S51. Presented at the ***Annual Meeting of the American Pain Society,*** Honolulu, HI, May, 2012.
98. Meyer, J.D., A.J. Stegner, B.H. Natelson & **D.B. Cook** (2011). Psychobiological response to exercise differs between chronic fatigue syndrome (CFS) and CFS with comorbid fibromyalgia. *Medicine and Science in Sports and Exercise*, 43(5 Suppl.): S325-S326. Presented at the ***Annual Meeting of the American College of Sports Medicine***, Denver, CO, May, 2011.
99. Ellingson, L.D., A.E. Kuffle & **D.B. Cook** (2011). Active and Sedentary Behavior Patterns Predict Mental Health and Quality of Life in Healthy Women. *Medicine and Science in Sports and Exercise*, 43(5 Suppl.): S817. Presented at the Annual Meeting of the American College of Sports Medicine, Denver, CO, May, 2011.
100. Ellingson, L.D. & **D.B. Cook** (2011). Exercise Induces Hypoalgesia through Conditioned Pain Modulation. *Journal of Pain*, 12(4 Suppl.): S37. Presented at the Annual Meeting of the American Pain Society,Austin, TX, May, 2011.
101. Shields, M.R., L.D. Ellingson, A.J. Stegner & **D.B. Cook** (2011). How does physical activity relate to cognitive pain modulation in women? *Journal of Pain*, 12(4 Suppl.): S39. Presented at the Annual Meeting of the American Pain Society,Austin, TX, May, 2011.
102. Ellingson, L.D., A.J. Stegner & **D.B. Cook** (2010). Can fibromyalgia patients distract from pain? A functional neuroimaging study. Presented at the *Annual Meeting of the American Pain Society*,Baltimore, MD, May, 2010.
103. **Cook, D.B.**, G. Lange & B.H. Natelson (2010). Psychophysical responses to pain probes during a year of vagus nerve stimulation (VNS) as a treatment for fibromyalgia (FM). Presented at the *Annual Meeting of the American Psychsomatic Society,*Portland, OR, March, 2010.
104. Smith, J.C., E.S. Paulson, M. Verber, T. Qu & **D.B. Cook** (2010). Human Cerebral Blood Flow Increases After Acute Exercise: Arterial Spin Labeling MRI. *Medicine and Science in Sports and Exercise*, 42(5 Suppl.): S46. Presented at the Annual Meeting of the American College of Sports Medicine, Baltimore, MD, May, 2010.
105. Smith, J.C., E.S. Paulson, M. Verber, T. Qu & **D.B. Cook** (2009). Detecting changes in human cerebral blood flow after acute exercise using arterial spin labeling. Presented at the *Annual Meeting of the Society for Neuroscience,*Chicago, IL, October, 2009.
106. Ellingson, L.D., A.J. Stegner & **D.B. Cook** (2009). Anticipation mediates neural responses to warm stimuli in fibromyalgia. *Journal of Pain*, 10(4 Suppl.): S16. Presented at the Annual Meeting of the American Pain SocietySan Diego, CA, May, 2009.
107. Newcomb, L.W. K.F., Koltyn, W.P. Morgan & **D.B. Cook** (2009). The influence of a preferred versus a prescribed exercise session on pain in women with fibromyalgia. *Journal of Pain*, 10(4 Suppl.): S16. Presented at the Annual Meeting of the American Pain SocietySan Diego, CA, May, 2009.
108. Dannecker, E. & **D.B. Cook** (2009). The relationship between pain and physical function in participants with fibromyalgia syndrome: influence of measurement methodology. *Journal of Pain*, 10(4 Suppl.): S2. Presented at the Annual Meeting of the American Pain SocietySan Diego, CA, May, 2009.
109. McLoughlin, M.J., L.D. Ellingson, A.J. Stegner & **D.B. Cook** (2008). Physical activity and augmented brain responses to pain in fibromyalgia. *Journal of Pain*, 9(4 Suppl.): S15. Presented at the Annual Meeting of the American Pain Society, Tampa, FL, May, 2008.
110. **Cook, D.B.** (2008). The influence of physical activity on brain processing of pain in women with fibromyalgia. *Medicine and Science in Sports and Exercise*, 40(5 Suppl.): S42. Presented at the Annual Meeting of the American College of Sports Medicine, Indianapolis, IN, May, 2008.
111. Ellingson, L.D., M.J. mcLoughlin, A.J. Stegner & **D.B. Cook** (2008). Imaging the relationship between physical activity and cognition in women with fibromyalgia and healthy women. *Medicine and Science in Sports and Exercise*, 40(5 Suppl.): S364. Presented at the Annual Meeting of the American College of Sports Medicine, Indianapolis, IN, May, 2008.
112. **Cook, D.B**. & A.J. Stegner (2007). Cardiorespiratory and perceptual responses to exercise in Gulf War veterans with chronic musculoskeletal pain. *Journal of Pain*, 8(4 Suppl.): S22. Presented at the Annual Meeting of the American Pain Society,Washington DC, May, 2007.
113. **Cook, D.B.** L.D. Ellingson & A.J. Stegner (2007). Exercise alters Pain Sensitivity in Gulf War Veterans with Chronic Musculoskeletal Pain. *Medicine and Science in Sports and Exercise*, 39(5 Suppl.): S158-S159. Presented at the Annual Meeting of the American College of Sports Medicine, New Orleans, Louisiana, May, 2007.
114. **Cook, D.B.** (2006). Functional neuroimaging of pain and fatigue. *Medicine and Science in Sports and Exercise*, 38(5 Suppl.): S62. Presented at the Annual Meeting of the American College of Sports Medicine, Denver, Colorado, May, 2006.
115. Reid, G.V., M.T. Bergen, R.M. DeMarco, F.P. Chua, M. Ocasio & **D.B. Cook** (2006). Virtual functional magnetic resonance imaging pain study system. Presented at the *Bioengineering Conference,* Newark, NJ, April, 2006.
116. **Cook, D.B.,** A. Poluri, J. Mores, & B.H. Natelson (2005). Pain sensitivity in Gulf veterans with medically unexplained musculoskeletal pain. *Medicine and Science in Sports and Exercise*, 37(5 Suppl.): S332. Presented at the Annual Meeting of the American College of Sports Medicine, Nashville, Tennessee, May, 2005.
117. Liu, W-C, S. C. Feldman, T. Xu, **D.B. Cook**, O. Nasis, N. Elbasty & B. Komisaruk (2005). Brain mechanisms underlying electro-acupuncture-induced analgesia: A functional MRI study. *Proceeds of the International Society for Magnetic Resonance Medicine,* 13 (suppl.): S1480. Presented at the International Society of Magnetic Resonance in Medicine 2005 Annual Conference, Miami, Florida, May 2005.
118. Lange, G. & **D.B. Cook** (2005). Chronic Fatigue: a Brain Disease? Presented at the*International Conference on Fatigue Science*, Tokyo, Japan, February 2005.
119. **Cook, D.B.** & J. Mores (2004). Exercise training for medically unexplained symptoms: fitness or function? Presented at the *American Academy of Physical Medicine and Rehabilitation Annual Assembly*, Phoenix, Arizona, October, 2004.
120. Kikuchi, H., K. Yoshiuchi, K. Ohashi, Y. Yamamoto, H. Kumano, **D.B. Cook** & B.H. Natelson (2004). Detrended fluctuation analysis of heart rate variability before and after exercise in chronic fatigue syndrome. Presented at the *American Association for Chronic Fatigue Syndrome, Seventh International Conference*, Madison, Wisconsin, October, 2004.
121. **Cook, D.B.** (2004). Pain sensitivity in Gulf War veterans. Presented at the *United States Government Committee on Gulf War Illness Research Meeting,* East Orange, New Jersey, June, 2004.
122. **Cook, D.B.**, P.R. Nagelkirk, A. Peckerman, B. Qureshi, A. Poluri, J. Mores & B.H. Natelson (2004). Exercise and neurocognitive performance in chronic fatigue syndrome. ” *Medicine and Science in Sports and Exercise*, 36(5 Suppl.): S274. Presented at the Annual Meeting of the American College of Sports Medicine, Indianapolis, Indiana, May, 2004.
123. **Cook, D.B.**, P.R. Nagelkirk, A. Poluri, J. Mores, & B.H. Natelson (2004). Cardiorespiratory and perceptual responses to steady-state exercise in patients with chronic fatigue syndrome and co-morbid fibromyalgia.  *Journal of Pain*, 5(3 Suppl.): S39. Presented at the Annual Meeting of the American Pain Society***,*** Vancouver, Canada, May, 2004.
124. **Cook, D.B.** (2004). Pain sensitivity in Gulf War veterans with medically unexplained musculoskeletal pain. Presented at the Annual *Research Day for the East Orange Department of Veterans Affairs Medical Center*, East Orange, New Jersey, April, 2004.
125. **Cook, D.B.**, K.S. Quigley, P. Nagelkirk, A. Poluri, J. Mores, A. Peckerman & B.H. Natelson (2004). Effect of fitness on cognitive performance in chronic fatigue syndrome. Presented at the *Society of Behavioral Medicine Annual Meeting and Scientific Sessions****,*** Baltimore, Maryland, March, 2004.
126. Yoshiuchi, K., **D.B. Cook**, K. Ohashi, Y. Yamamoto, H. Kumano, T. Kuboki, & B.H. Natelson (2004). Influence of exercise on chronic fatigue syndrome patients using ecological momentary assessment. Presented at the *Annual Meeting of the American Psychosomatic Society,*Orlando, Florida, March, 2004.
127. Yoshiuchi, K., **D.B. Cook**, K. Ohashi, Y. Yamamoto & B.H. Natelson (2003). Development of a new watch-type computer for ecological momentary assessment and application to CFS patients. Presented at the *Science of Real-Time Data Capture meeting, Sponsored by the Biobehavioral Research Program of NCI*, Charleston, South Carolina, September, 2003.
128. Liu, W.C., **D.B. Cook**, D.L. Hung, T. Xu, A. Kalnin & B.R. Komisaruk (2003). BOLD responses in periaqueductal gray matter induced by manual and electro-acupuncture stimulation. Presented at the *Annual of the Organization for Human Brain Mapping,* New York, New York, June, 2003.
129. Liu, W.C., **D.B. Cook**, T. Xu, A. Kalnin & B.R. Komisaruk (2003). BOLD responses of acupuncture induced analgesia. Presented at the *Annual of the Organization of Human Brain Mapping,* New York, New York, June, 2003.
130. **Cook, D.B.**, P.R. Nagelkirk, A. Poluri, J. Mores, B. Qureishi & B.H. Natelson (2003). Perceived exertion in Chronic Fatigue Syndrome: effects of gender. *Medicine and Science in Sports and Exercise*, 35(5 Suppl.): S288. Presented at the Annual Meeting of the American College of Sports Medicine, San Francisco, California, May, 2003.
131. **Cook, D.B.**, P.R. Nagelkirk, A. Poluri, J. Mores & B.H. Natelson (2003). Cardiorespiratory and perceptual responses to exercise in Chronic Fatigue Syndrome and co-morbid Fibromyalgia. *Journal of Pain*, 4(2 Suppl.): S15. Presented at the Annual Meeting of the American Pain Society***,***Chicago, Illinois, March, 2003.
132. Yoshiuchi, K., **D.B. Cook**, Y. Yamamoto, A. Poluri & B.H. Natelson (2003). Baroreflex sensitivity before and after exercise in patients with Chronic Fatigue Syndrome. Presented at the *American Psychosomatic Society – Annual Scientific Meeting,* Phoenix, Arizona, March, 2003.
133. **Cook, D.B.**, B. Qureishi, A. Poluri, A. Peckerman, P. Nagelkirk & B.H. Natelson (2003). Effect of exercise on neurocognitive function in Chronic Fatigue Syndrome Patients. Presented at the *American Association for Chronic Fatigue syndrome – Sixth International Conference*, Chantilly, Virginia, January, 2003.
134. Yoshiuchi, K., **D.B. Cook,** B. Qureishi, Y. Yamamoto, & B.H. Natelson (2003). Fractal analysis of heart rate variability during postural challenge in Chronic Fatigue Syndrome: effect of maximal exercise. Presented at the *American Association for Chronic Fatigue syndrome – Sixth International Conference*, Chantilly, Virginia, January, 2003.
135. Yoshiuchi, K., **D.B. Cook,** K. Ohashi, B. Qureishi, Y. Yamamoto, & B.H. Natelson (2003). Development of a new watch-type computer for ecological momentary assessment and application to Chronic Fatigue Syndrome Patients. Presented at the *American Association for Chronic Fatigue syndrome – Sixth International Conference*, Chantilly, Virginia, January, 2003.
136. **Cook, D.B.** (2002). Sex differences in perceived exertion among special populations. *Medicine and Science in Sports and Exercise*, 34(5 Suppl.): S202. Presented at the Annual Meeting of the American College of Sports Medicine, St. Louis, Missouri, May, 2002.
137. **Cook, D.B.,** G. Lange, D. Ciccone, W. Liu, J. Steffener, & B.H. Natelson (2002). Functional imaging of pain in fibromyalgia: central sensitization and hypervigilance. *Journal of Pain*, 3(2 Suppl.): S14. Presented at the Annual Meeting of the American Pain Society***,*** Baltimore, Maryland, March, 2002.
138. **Cook, D.B.** (2001). Simultaneous scaling of perceived exertion and pain in healthy, fatigued, and chronic pain populations. *Medicine and Science in Sports and Exercise*, 33(5 Suppl.): S96. Presented at the Annual Meeting of the American College of Sports Medicine, Baltimore, Maryland, May, 2001.
139. **Cook, D.B.,** P.R. Nagelkirk, J.J. LaManca, T. Sakowski, A. Peckerman & B.H. Natelson (2001). Perceived exertion in fatiguing illness. *Medicine and Science in Sports and Exercise*, 33(5 Suppl.): S85. Presented at the Annual Meeting of the American College of Sports Medicine, Baltimore, Maryland, May, 2001.
140. Jackson, E.M., **D.B. Cook**, P.J. O’Connor & R.K. Dishman (2001). Quadriceps muscle pain responses to maximal cycle ergometry in normotensive, black women with or without a parental history of hypertension. *Medicine and Science in Sports and Exercise*, 33(5 Suppl.): S306. Presented at the Annual Meeting of the American College of Sports Medicine, Baltimore, Maryland, May, 2001.
141. **Cook, D.B.,** P.R. Nagelkirk, J.J. LaManca, T. Sakowski, A. Peckerman & B.H. Natelson (2001). Perceived exertion of Gulf War Veterans with and without chronic fatigue syndrome. Presented at the *Conference on Illness among Gulf War Veterans: A Decade of Scientific Research*, Alexandria, Virginia, January, 2001.
142. **Cook, D.B.,** P.J. O’Connor & C.A. Ray (2000). The effects of an opioid agonist and antagonist on muscle pain and sympathetic nerve activity during and after forearm exercise. *Medicine and Science in Sports and Exercise*, 32(5 Suppl.). Presented at the Annual Meeting of the American College of Sports Medicine, Indianapolis, Indiana, May, 2000.
143. O’Connor, P.J. & **D.B. Cook** (2000). Producing and sustaining moderate intensity quadriceps muscle pain during cycle ergometry. *Medicine and Science in Sports and Exercise*, 32(5 Suppl.). Presented at the Annual Meeting of the American College of Sports Medicine, Indianapolis, Indiana, May, 2000.
144. Steffener, J. & **D.B. Cook** (2000). Functional magnetic resonance imaging: an innovative research tool. Presented at the *Department of Psychiatry’s Fourth Annual Research Day,*University of Medicine and Dentistry - New Jersey Medical School, Newark, New Jersey, March, 2000.
145. **Cook, D.B.** (1999). Why do muscles hurt during intense exercise? *Medicine and Science in Sports and Exercise*, 31(5 Suppl.): S90. Presented at the Annual Meeting of the American College of Sports Medicine, Seattle, Washington, May, 1999.
146. O’Connor, P.J., J.C. Smith, **D.B. Cook** & S.K. Agrawal (1998). Circadian rhythms in highly physically active and fit elderly men compared to normal elderly controls. Presented at the *Annual Meeting of the Society for Research on Biological Rhythms,* Amelia Island, Florida, May, 1998.
147. **Cook, D.B.,** P.J. O’Connor, B.T. McAuley, L.T. Wiggins, S.E. Oliver & Y. Lee (1997). Naturally occurring leg muscle pain during intense cycling exercise: gender differences. Presented at the *Annual Meeting of the American Pain Society,*New Orleans, Louisiana, October, 1997.
148. Smith, J.C., **D.B. Cook**, P.J. O’Connor & S.K. Agrawal (1997). Circadian pacemaker evoked changes in blood pressure and heart rate in fit elderly men. *Medicine and Science in Sports and Exercise*, 29(5 Suppl.): S141. Presented at the Annual Meeting of the American College of Sports Medicine, Denver, Colorado, May, 1997.
149. **Cook, D.B.,** P.J. O’Connor & S.A. Eubanks (1996). Effects of acetylsalicylic acid on leg muscle pain during and after ramped cycle ergometry. *Medicine and Science in Sports and Exercise*, 28(5 Suppl.): S57. Presented at the Annual Meeting of the American College of Sports Medicine, Cincinnati, Ohio, May, 1996.
150. Smith, J.C., **D.B. Cook** & P.J. O’Connor (1996). Pain, perceived exertion, and personality during brief, maximal forearm contractions in women. *Medicine and Science in Sports and Exercise*, 29(5 Suppl.): S57. Presented at the Annual Meeting of the American College of Sports Medicine, Cincinnati, Ohio, May, 1996.
151. O’Connor, P.J., **D.B. Cook** & J.C. Smith (1995). Relationships between pain, personality and performance during maximal cycle ergometry. Presented at the *Annual Meeting of the American Psychological Association,*New York, New York, August, 1995.
152. **Cook, D.B.**, P.J. O’Connor & J.C. Smith (1995). Perception of leg muscle pain during ramped cycle ergometry *Medicine and Science in Sports and Exercise*, 28(5 Suppl.). Presented at the Annual Meeting of the American College of Sports Medicine,Minneapolis, Minnesota, May, 1995.
153. O’Connor, P.J. & **D.B. Cook** (1993). Anxiety reductions following exercise are not mediated by muscle contraction type. *Medicine and Science in Sports and Exercise*, 25(5 Suppl.): S46. Presented at the Annual Meeting of the American College of Sports Medicine,Seattle, Washington, May, 1993.

##### TEACHING & MENTORSHIP

***Classroom Teaching:***

2023- Spring 742-350 Introduction to Exercise Psychology

2022- Fall 742-350 Introduction to Exercise Psychology

2022- Spring 742-350 Introduction to Exercise Psychology

2021- Fall 742-350 Introduction to Exercise Psychology

2021- Spring 742-350 Introduction to Exercise Psychology

2019 – Fall 742-350 Introduction to Exercise Psychology

2019 – Spring 742-350 Introduction to Exercise Psychology

2018 – Fall 742-350 Introduction to Exercise Psychology

2018 – Spring 742-350 Introduction to Exercise Psychology

2017 – Fall 742-350 Introduction to Exercise Psychology

2017 – Spring 742-350 Introduction to Exercise Psychology

2016 – Fall 742-350 Introduction to Exercise Psychology

2015 – Fall 742-350 Introduction to Exercise Psychology

2015 – Spring 742-800 Seminar in Exercise Psychology

(Neurobiology of Exercise and Aging)

2015 – Spring 742-350 Introduction to Exercise Psychology

2014 – Fall 742-350 Introduction to Exercise Psychology

2014 – Spring 742-350 Introduction to Exercise Psychology

2013 – Fall 742-350 Introduction to Exercise Psychology

2013 – Spring 742-350 Introduction to Exercise Psychology

2013 – Spring 742-800 Seminar in Exercise Psychology

2012 – Fall 742-350 Introduction to Exercise Psychology

2012 – Spring 742-350 Introduction to Exercise Psychology

 742-700 Psychological Effects of Exercise

2011 – Fall 742-350 Introduction to Exercise Psychology

2011 – Spring 742-350 Introduction to Exercise Psychology

2010 – Fall 742-350 Introduction to Exercise Psychology

2010 – Spring 742-350 Introduction to Exercise Psychology

2009 – Fall 742-350 Introduction to Exercise Psychology

2009 – Spring 742-350 Introduction to Exercise Psychology

2008 – Fall 742-350 Introduction to Exercise Psychology

2008 – Spring 742-700 Psychological Effects of Exercise

***Non-Credit Instruction (Classroom Lectures):***

2018 - Fall Neuro 675/Psych 711 Neuroimaging of Cognitive Disorders

2017 – Spring 742-119 Introduction to Kinesiology

2016 - Fall Neuro 675/Psych 711 Neuroimaging of Cognitive Disorders

2015 – Spring 742-119 Introduction to Kinesiology

 742-900 Kinesiology Graduate Seminar

2014 - Fall Neuro 675/Psych 711 Neuroimaging of Cognitive Disorders

2013 - Fall Neuro 675/Psych 711 Neuroimaging of Cognitive Disorders

2012 - Fall Neuro 675/Psych 711 Neuroimaging of Cognitive Disorders

2010 – Fall 742-119 Introduction to Kinesiology

 742-900 Kinesiology Graduate Seminar

Neuro 675/Psych 711 Neuroimaging of Cognitive Disorders

Neurobiology of Pain Didactic Course

2010 – Summer 742-119 Introduction to Kinesiology

2010 – Spring 742-119 Introduction to Kinesiology

 742-330 Measurement and Motor Behavior

2009 – Fall 742-119 Introduction to Kinesiology

 742-330 Measurement and Motor Behavior

Neuro 675/Psych 711 Neuroimaging of Cognitive Disorders

Neurobiology of Pain Didactic Course

2009 – Summer 742-119 Introduction to Kinesiology

2009 – Spring 742-119 Introduction to Kinesiology

2008 – Fall 742-119 Introduction to Kinesiology

 742-615 Exercise Physiology, Laboratory Methods Lab Section

 742-900 Kinesiology Graduate Seminar

Neuro 675/Psych 711 Neuroimaging of Cognitive Disorders

Neurobiology of Pain Didactic Course

2007 – Fall 742-600 Advanced Exercise Psychology

 742-615 Exercise Physiology, Laboratory Methods Lab Section

Neuro 675/Psych 711 Neuroimaging of Cognitive Disorders

2007 – Spring 742-330 Measurement and Motor Behavior

2006 – Fall 742-350 Introduction to Exercise Psychology

 742-900 Kinesiology Graduate Seminar

Neuro 675/Psych 711 Neuroimaging of Cognitive Disorders

***Thesis and Dissertation Supervision***

**Current Advisees:**

PhD:

2018-2022 Jennifer Gansen

2020-present Jacob Ninneman

2022-present Alexander Boruch

MS:

2019-2022 Alexander Boruch

2021-present Gunnar Roberge

2022-present Grace Branchaw

**Graduated Ph.D. Advisees:**

2011 Laura Ellingson **Dissertation Title**: “Exercise-Induced Modulation of Pain

Sensitivity in Healthy Women”

2015 Jacob Meyer **Dissertation Title**: “Physical Activity, Exercise and BDNF in

Depressed Patients – A Study of the Acute Effects of Exercise Intensity on Mood”

2015 Morgan Shields **Dissertation Title**: “Cognition Across a Competitive Season in

Collegiate Rowers”

2020 Ryan J Dougherty **Dissertation Title**: “Longitudinal Assessment of Physical

Activity, Brain Volume and Cognitive Function in Adults at risk for Alzheimer’s disease”

2020 Stephanie VanRiper **Dissertation Title**: “The Effects of Physical Activity and

Exercise on Cerebral White Matter Integrity in Health and Chronic Pain”

**Graduates M.Sc. Advisees:**

2009 Michael McLoughlin **Thesis Title**: “Measurement of Physical Activity and its

Relationship to Central Processing of Pain in Fibromyalgia”

2011 Jacob Meyer **Thesis Title**: “Metabolite, Adrenergic and Immune

Receptor Regulation in Chronic Fatigue Syndrome Following Maximal Exercise”

2015 Ryan Dougherty **Thesis Title**: “Cardiorespiratory Fitness, Hippocampal Volume

 and Memory in an at-risk Alzheimer’s Disease Population”

2015 Stephanie VanRiper **Thesis Title**: “Investigation of Cerebral White Matter Integrity

 and Physical Activity Behaviors in Gulf War Veterans with

 Chronic Musculoskeletal Pain”

2020 Jacob Ninneman **Thesis Title**: “The Relationship between Chronic Pain, Physical

Activity, and Brain Grey Matter in Gulf War Veterans

2021 Alex Boruch **Thesis Title:** The psychobiology of post-exertional malaise

(PEM): Is mRNA expression a mediator of symptom responses to exercise in Gulf War Illness?

**Post-Doctoral Advisees:**

2009 Aaron J. Stegner

2012 Laura D. Ellingson

2015-2017 Jacob Meyer

2015-2018 Jake Lindheimer

**Visiting Scholars:**

2015 Victor Segura Jimenez – University of Granada (Spain)

 -awarded a grant to study in Exercise Psychology lab for Summer 2015

**Career Development Advisees:**

2017-present Vivian Santiago (NIH K award)

2018-2020 Ryan Dougherty (NIH F31 award)

2018-2020 Kevin Crombie (NIH F31 award)

2018-present Jake Lindheimer (VA CDA award)

2018-present Adam Gepner (VA CDA award)

2019-present Katherine Schaumberg (NIH K award)

2023 – present Scott Crawford (NIH ICTR KL2 award)

##### PROFESSIONAL SERVICE

***General Professional Service (Grant Reviews, Committees & Chair Positions):***

1999 Co-Chair, Symposium, *Annual Meeting, American College of Sports Medicine*

2000 Program Chair, *Annual Meeting, American College of Sports Medicine*

2001 Acting Chairman, *Psychobiology and Behavior Interest Group*

2001-2010 Co-Chairman, *Psychobiology and Behavioral Interest Group, American College of Sports Medicine*

2001 Expert Panel Member, *Annual Meeting, American College of Sports Medicine*

2001-present Exercise and pain consultant, Clinical Core, *War Related Illness and Injury Study Center*

2004 National Institute of Health Special Emphasis Panel Grant Review Committee member

2004 National Institute of Health Fatigue Workshop invitee, Airlie, VA

2004 Co-Chairman for the International Life Sciences Institute (ILSI) conference on Mental Energy

2004 Participant, National Institute of Health (NIAMS) workshop: Fibromyalgia Workshop: The Next Advances, Washington, DC

2005 National Institute of Health Chronic Fatigue Syndrome – Fibromyalgia Syndrome - Special Emphasis Panel Grant Review Committee member, November 11, 2005

2006 National Institute of Health, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) - Centers of Research Translation (CORT) - Special Emphasis Panel Grant Review Committee member, March, 2006

2006-present Advisory Board member – Wisconsin Chronic Fatigue Syndrome Association

2007 National Institute of Health, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), NIH Trigeminal Pain RFA Review Panel member

2007 Program Chair, *Annual Meeting, American College of Sports Medicine*

2007 Participant/Presenter, *VA Pain Research Summit*, September, 2007

2008 Speaker, The 5th Scientific Meeting of the TMJ Association, June, 2008

2009 Program Chair, *Annual Meeting, American College of Sports Medicine*

2009 National Institute of Health Chronic Fatigue Syndrome – Fibromyalgia Syndrome – Temporomandibular Disorders - Special Emphasis Panel Grant Review Committee member, February 27, 2009

2009  National Institute of Health Chronic Fatigue Syndrome – Special Emphasis Panel Small Grant Review Committee member, September 23, 2009

2010 National Institute of Health Chronic Fatigue Syndrome, Fibromyalgia Syndrome, Temporomandibular Disorders – CSR Special Emphasis Panel Review Committee member, February 16, 2010

2010-2014 Appointment to the Chronic Fatigue Syndrome Advisory Committee (CFSAC), a Federal Advisory Committee of the Department of Health and Human Services

2010-2016 Chair *Psychobiology and Behavioral Interest Group, American College of Sports Medicine*

2011 Institute for Clinical and Translational Research (ICTR) Pilot Grant Program Reviewer

2012-present Department of Veterans Affairs, Office of Research and Development - Special Emphasis panel for Research on Gulf War Veterans’ Illnesses grant review committee member

2012 Symposium Chair, *Annual Meeting of the American Pain Society*

2012 Moderator, Preconference Education break-out session at the ACR/ARHP Annual Meeting

2013 Chair, thematic Poster Session, *Annual Meeting of the American College of Sports Medicine*

2013 Chapter Editor, Physical activity and pain: Neurobiological mechanisms. In: Handbook of Physical Activity and Mental Health

2014 Chair, Slide Session (Cognition), *Annual Meeting of the American College of Sports Medicine*

2014 Chair, Slide Session (RPE), *Annual Meeting of the American College of Sports Medicine*

2014 National Institute of Health Chronic Fatigue Syndrome - Special Emphasis Panel Grant Review Committee member, January 16, 2014

2014-2015 Chairman of the Chronic Fatigue Syndrome Advisory Committee (CFSAC), Research Workgroup

2014-2015 Chair, Cross-disciplinary teaching initiative group - Part of the tactical planning outcomes for the Department of Kinesiology, University of Wisconsin – Madison

2015 Department of Veterans Affairs, Office of Research and Development - Special Emphasis panel for Research on Gulf War Veterans’ Illnesses grant review committee member

2016-2017 Chairman of the Chronic Fatigue Syndrome Advisory Committee (CFSAC), Stakeholder Engagement Workgroup

2016 National Institute of Health Myalgic Encephalomyelitis/Chronic Fatigue Syndrome – CSR Special Emphasis Panel Review Committee member, August, 2016

2017 Member of the NINDS ME/CFS CDE Working Group to develop data standards (i.e. Common Data Elements) for clinical research studies of ME/CFS

2017 Member of the Chronic Overlapping Pain Conditions (COPCs) working group within the NIH Pain Consortium. This group is charged with developing standardized survey tools to identify COPCs.

2017 Chair, Slide Session (Exercise Psychology), *Annual Meeting of the American College of Sports Medicine*

2017 Chair, Slide Session (Perception of Effort, Pain and Fatigue), *Annual Meeting of the American College of Sports Medicine*

2017 Member, Social Sciences *Fall Competition Committee*

2017 Member, School of Education, *Grand Challenges Award Committee*

2017 NIH Review Panel – NINDS

2017 UW-Madison, Department of Kinesiology, Full Professor Review Committee

2017-2020 Collaborator on a F31 graduate fellowship grant application of Jessica Gorzelitz

2017-2020 Collaborator on a F31 graduate fellowship grant application of Kevin Crombie

2017-present Member, Named Lecture Committee, UW-Madison, Department of Kinesiology

2017-2018 Member Gulf War Illness Common Data Elements Project

2018 UW-Madison, Department of Kinesiology, Post-Tenure Review Committee

2018-present Chair, Data Safety and Monitoring Board, for the Exercise, Brain and Cardiovascular Health (eBACH) trial, (Erickson, PI)

2019-present Vice Chair, Research and Development (R&D) Committee, William S. Middleton Memorial Veterans Hospital

2019-present Member of the NINDS ME/CFS CDE Working Group to develop research priorities for a national roadmap to study ME/CFS

2019-present Associate Editor, Medicine and Science in Sports and Exercise

2020-2020 Interim Chair, Spring semester (2020), Department of Kinesiology, University of Wisconsin – Madison

2020-2021 Managing Editor, Special Issue “2020 Gulf War Illness State of the Science (GWI SOS)” for Life Sciences.

2022-present Member NIH RECOVER working group for Ling-COVID research

***Academic Committees:***

2002-2004 Alternate member, *Research and Development Committee at the Department of Veterans Affairs*, New Jersey Health Care System

2004 Dissertation Committee member for Jason R. Steffener at The New Jersey Institute of Technology (NJIT)

2005 Dissertation advisor for Karen Wenberg at Rutgers University, Newark, New Jersey campus

2005-2011 Doctoral Advisor for Laura Ellingson, Department of Kinesiology, University of Wisconsin - Madison

2006-2007 Dissertation committee member for Masataka Umeda, Department of Kinesiology, University of Wisconsin – Madison

2006-2009 Thesis committee member for Lauren Newcomb, Department of Kinesiology, University of Wisconsin – Madison

2006-2008 Masters Advisor for Michael McLaughlin, Department of Kinesiology, University of Wisconsin - Madison

2006-present Graduate Studies Committee, Department of Kinesiology, University of Wisconsin – Madison

2006-2009 Post-doctoral advisor for Aaron J. Stegner, Department of Kinesiology, University of Wisconsin - Madison

2007-2009 Alternate representative for the Department of Kinesiology on the Faculty Senate at the University of Wisconsin – Madison

2008 University of Wisconsin–Madison, Faculty Senate alternate member (District 31)

2008-2009 Department of Kinesiology, Athletic Training Faculty Search Committee

2009-2021 Health Sciences Institutional Review Board Committee Member

2009-2011 Thesis committee member for Matt Knauf, Department of Kinesiology, University of Wisconsin – Madison

2009-2011 Thesis committee member for Petrolina Sims, Department of Kinesiology, University of Wisconsin – Madison

2011-2014 Post-doctoral advisor for Laura Ellingson, Department of Kinesiology, University of Wisconsin - Madison

2011-2013 Thesis committee member for Angelique Brellenthin, Department of Kinesiology, University of Wisconsin – Madison

2012-2014 Dissertation committee member for Greg Barton, Department of Kinesiology, University of Wisconsin – Madison

2013 K-award mentor for Elisa Torres (new Faculty in Nursing School)

2013-2018 Mentor committee member for Dr. David Bell, Assistant Professor, Department of Kinesiology, UW-Madison

2013-2017 Dissertation committee member for Angelique Brellenthin, Department of Kinesiology, University of Wisconsin – Madison

2013-2014 *ad hoc* Tenure Review Committee for Assistant Professor Corinna Burger

2013-2014 Chair, Department of Kinesiology, Physical Activity Epidemiology, Search Committee

2014 Tactical Planning Committee retreat committee member for the Department of Kinesiology, University of Wisconsin – Madison

2014-2020 Mentor committee member for Dr. Brittany Travers, Assistant Professor, Department of Kinesiology, UW-Madison

2014-2016 Undergraduate Studies Committee, Department of Kinesiology, University of Wisconsin – Madison

2015-2017 Dissertation committee member for Stephanie Kulow (Trigsted), Department of Kinesiology, University of Wisconsin – Madison

2015 Dissertation defense opponent for Henrik Bjarke Vaegter, student of Thomas Graven-Nielsen, Professor at Aalborg University, Denmark

2015-2020 Mentor committee member for Dr. Karla Ausderau, Assistant Professor, Department of Kinesiology, UW-Madison

2015-2021 Mentor committee member for Dr. Jill Barnes, Assistant Professor, Department of Kinesiology, UW-Madison

2015-2020 Mentor committee member for Dr. Lisa Cadmus-Bertram, Assistant Professor, Department of Kinesiology, UW-Madison

2016-2020 Dissertation committee member for Kevin Crombie, Department of Kinesiology, University of Wisconsin – Madison

2016-2017 Dissertation Defense Examiner for Matthew Jones, student of Benjamin Barry, Professor, UNSW Australia, Sydney, Australia

2017 Dissertation jury member for Jeroen Kregel, student of Mira Meeus, Universiteit, Gent, Belgium

2017-2020 Thesis committee member for Adam Corkery, Department of Kinesiology, University of Wisconsin – Madison

2018-2021 Dissertation committee member for Brianna Leitzelar, Department of Kinesiology, University of Wisconsin – Madison

2020-2021 Thesis committee member for Neda Almasi, Department of Kinesiology, University of Wisconsin – Madison

2020-2021 Mentor committee Chair for Dr. Jill Barnes, Assistant Professor, Department of Kinesiology, UW-Madison

2021-present Mentor committee member for Dr. Scott Crawford, Assistant Professor, Department of Kinesiology, UW-Madison

##### *Current Professional Affiliations*

American College of Sports Medicine

International Association for Chronic Fatigue Syndrome

Academy of Behavioral Medicine Research