Faculty
Joshua Alexander, MD
Hannah Allen, PhD
JM Baratta, MD, MBA
Jessica Barnhill, MD, MPH
Kathryne Bartolo, MD
Elizabeth Barton, MD
Christine Cleveland, MD
Peter Duquette, PhD, ABPP(CN)
Keturah Faurot, PhD, MPH, PA
William Filer, MD
Susan Gaylord, PhD
Mathew Harris, PhD, ABPP(CN)
James Hill, MD, MPH
Michael Ingraham, MD
Robert Kanser, PhD
Kristopher Karvelas, MD
Christine Lathren, MD, MSPH
Hanna Leong, PhD
Kimberly Rauch, DO
Isabel Roth, DrPH, MS
Lee Shuping, MD, MPT
Raj Telhan, MD, MFA
Paul Thananopavarn, MD
Karla Thompson, PhD
Theodore Yip, MD
Daisy Zamora, PhD
Tanya Zinner, MD

Bibliography

PUBLISHED


IN PRESS

1. Hongtao Li, Qiang Fu, Kamaira Philips, Yufei Sun, Keturah R. Faurot, Susan A. Gaylord, John Douglas Mann. "Leukocyte inflammatory phenotype and function in migraine patients compared with matched non-migraine volunteers: A pilot study" BMC Neurology. Accepted on June 30, 2022 (in press).

2. Zieff, Gabriel H; Stoner, Lee; Barnett. Frank; Gaylord, Susan; Battle, Sarah Kate and Hackney, Anthony C. "Aerobic Exercise, Mindfulness Meditation, and Stress-Reduction in High-Stress, College-Based Young Adults: A Pilot Study". Journal of American College Health. Accepted on May 6, 2022 (in press). DOI: 10.1080/07448481.2022.2076103


SUBMITTED


2. Zieff, Gabriel H; Stone, Lee; Frank, Barnett; Gaylord, S; Battle, Kate and Hackney, Anthony C. Do Aerobic Exercise and Mindfulness Act Synergistically to Mitigate Psychological Distress in College Students Experiencing High Levels of Stress? Behavioral Medicine. (Submitted).


8. Kaplan, R; Williams-Nguyen, JS; Huan, Y; Mossavar-Rahmani, Y; Yu, B; Boerwinkle, E; Gellman, MD; Daviglus, M; Chilcoat, A; Van Horn, L; **Faurot, K**; Qj, Qibin; Greenlee, H. Blood metabolomic signals of dietary supplement intake and risk of incident diabetes: Hispanic Community Health Study / Study of Latinos cohort study. Submitted to the American Journal of Clinical Nutrition. AJCN-D-22-00233.


10. Tiedt, M; Kavalakkatt, B; Chilcoat, A; **Barnhill, J; Roth, I**. Aligning Pre-professional Student Experiences in Integrative Group Medical Visits with Integrative Medicine Core Competencies. Submitted to Integrative Medicine Reports. IMR-2022-0052.

11. Shafer, J; **Gaylord, S; Faurot, K**; Harr, E; **Lathren, C; Roth, I**; Giscombe, K; Sheffield, K; Williams, S. Easing the Burden of Dementia Caregiving: Protocol Development for a Telephone delivered Mindfulness Intervention for Rural, African American Families. Submitted to Contemporary Clinical Trials Communications


BOOK CHAPTERS -


PUBLISHED ABSTRACTS

7. Feasibility and preliminary outcomes of a telephone-delivered mindfulness intervention for rural African American families caring for a person with dementia Christine Lathren, PhD, MSPH, Keturah (Kim) R Faurot, PhD, MPH, PA, Sharon Williams, PhD, Isabel Roth, DrPH, Elondra Harr, BS, Rachel Mason, Karen Sheffield-Abdullah, PhD, MSN, CNM, Jessica Barnhill, MD, MPH and Susan Gaylord, PhD. Presented by K Faurot 10/21/2021 at the American Public Health Association 2021Annual Meeting and Expo.
8. Tiedt, M; Barnhill, J; Kavalakatt, B; Chilcoat, ND, Paula Gardiner, MD, MPH2, John Baratta, MD, MBA, Karla Thompson, PhD1, Susan Gaylord, PhD, Keturah (Kim) R Faurot, PhD, MPH, PA and Isabel Roth, DrPH, MS. Piloting "nourish to flourish" – An adapted integrative medicine group visit for post-acute sequelae of SARS-CoV-2 Presented by M.Tiedt on 10/21/2021 at the American Public Health Association 2021 Annual Meeting and Expo.

9. Implementing integrative medical group visits for patients with chronic pain: Findings from a pilot study. Isabel Roth, DrPH, MS1, Aisha Chilcoat, ND2, Keturah Faurot, PA, PhD3, Jessica Barnhill, MD, MPH2, Malik Tiedt2, Paula Gardiner, MD, MPH4, Susan Gaylord, PhD2, Jennifer Leeman, DrPH, MDIV2, Kris Karvelas, MD5 and Vanessa Miller, PhD. Presented by A. Chilcoat on 10/21/2021 at the American Public Health Association 2021 Annual Meeting and Expo.


15. Elhadidy, N; Faurot, K; Morone, N; Gaylord, S; Roth, I; Gardiner, P. Capture of Dietary Supplement/Natural Product Use for Chronic Pain: Interview and Label Visualization among OPTIMUM Trial Participants. NIH HEAL Investigators Meeting. Virtual. 04/11/22

16. Roth, I; Kavalakatt, B; Tiedt, M; Gardiner, P; Barnhill, J. Engaging Patients to Adapt an Integrative Medical Group Visit for Patients with Long COVID. American Osteopathic College of Physical Medicine and Rehabilitation Mid-Year Meeting. Tampa, FL. 04/28/22.


American families caring for a person with dementia. Symposium for Learning about Alzheimer’s Disease Medical Research at Duke and UNC (SLAM-DUNC). June 24-25. Durham NC.

**Grants, Contracts & Clinical Trials**

*denotes change  
**cannot confirm  
***funded (waiting for award) or expected funding  

**FUNDED**

<table>
<thead>
<tr>
<th>AACPDM and NIH/NICHD</th>
<th>Cassidy (PI)</th>
<th>03-01-2022 – 0/31/2022</th>
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</thead>
<tbody>
<tr>
<td>Project Title: <strong>EEG in Children with Hemiplegia for Biomarker Development: The EMBARK Study</strong></td>
<td></td>
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<tr>
<td>Faculty: Alexander: Co-I</td>
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</table>

<table>
<thead>
<tr>
<th>*1R01MD015388-01A1 NIH NIMHD</th>
<th>Giscombe (contact PI); Gaylord (PI)</th>
<th>07/29/2020-02/28/2025</th>
</tr>
</thead>
</table>
| Title: **The HARMONY Study – A culturally relevant, randomized controlled stress management intervention to reduce cardiometabolic risk in African American women.**  
**Goal:** To test a culturally tailored mindfulness-based diet and exercise intervention vs. a conventional diet and exercise intervention for African American Women with cardiometabolic risk. |
| Faculty: Gaylord: PI (20% effort in year one)  
Faurot: Co-I (10% effort in year one) |

<table>
<thead>
<tr>
<th>*1R34AT011038-01 Old Dominion/NIH NCCIH</th>
<th>Kelley (PI)</th>
<th>09/21/2020-08/31/2023</th>
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</table>
| Title: **Adaptation of Mindfulness to Treat Moral Injury in Veterans**  
**Goal:** To develop and test the feasibility of internet-based mindfulness program adapted to treat moral injury in veterans. |
| Faculty: Gaylord: Co-I (8.3 Effort) |

<table>
<thead>
<tr>
<th>*1UH3AT010621-01 NCCIH/NIH</th>
<th>Morone (PI), Gaylord (UNC Site PI) $278,123 (year 1 directs)</th>
<th>9/01/2020-08/31/2024</th>
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</thead>
</table>
| Title: **Group-based mindfulness for patients with chronic low back pain in the primary care setting.**  
**Goal:** To integrate mindfulness training, an efficacious non-pharmacological treatment for low back pain, into routine primary care, and to evaluate the impact of this integration on key outcomes. |
| Faculty: Gaylord: Site PI (20% effort)  
Faurot: Co-I (20% effort) |

<table>
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<tr>
<th>*Unassigned IPF 21-6000</th>
<th>Elhadidy (PI)</th>
<th>09/01/2021-08/31/2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title: <strong>Diversity Supplement to Group-based mindfulness for patients with chronic low back pain in the</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**primary care setting**

**Goal:** The goal of the scoping review is to inform the development of a dietary supplement data collection instrument for the OPTIMUM study as well as to give the candidate experience in this increasingly important methodology.

**Faculty:**
- **Faurot:** 5% (Co-I)
- **Gaylord:** 5% (Co-I)
- **Elhadidy:** 100% (Fellow, PI)

<table>
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<tr>
<th><em>901FDV0017-01</em></th>
<th>Pantic (NCSU PI); Filer (Co-PI)</th>
<th>09/01/2020-08/31/2023</th>
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<tbody>
<tr>
<td>NCSU/NIH NIDILRR</td>
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</table>

**Title:** Development: Next-Generation Public Charging Infrastructure and Cyber-Information Network for Enhanced Inclusion and Independent Living of Power Mobility Device Users

**Goal:** This project seeks to improve community mobility in users of power wheelchairs by enhancing community-based battery charging networks. Using focus group data, a charging system will be designed and integrated with a mobile application that will help these individuals plan routes in the Chapel Hill community that are informed by the current power supply and projected range of their powered mobility devices.

**Faculty:**
- **Filer:** Co-PI (5%)
- **Faurot:** Co-I (2.5%)
- **Barnhill:** Co-I (2.5%)

<table>
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<tr>
<th>4R33MH110027-03</th>
<th>Dichter (PI)</th>
<th>02/01/2017-07/31/2022</th>
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<tbody>
<tr>
<td>National Institute of Mental Health</td>
<td>$611,884</td>
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</table>

**Title:** Development of A Novel Transdiagnostic Intervention for Anhedonia

**Goal:** The goal of this experimental therapeutics trial is to validate Behavioral Activation Treatment for Anhedonia in a transdiagnostic sample of anhedonic patients first with 7T fMRI and then with a randomized clinical trial.

**Faculty:**
- **Gaylord:** Co-I (14% effort)

<table>
<thead>
<tr>
<th>5R01EB024570</th>
<th>Huang (PI)</th>
<th>08/15/2018 – 04/30/2023</th>
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<tbody>
<tr>
<td>NCSU/NIH</td>
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</table>

**Title:** Error Tolerance in Wearer-Robot Systems

**Goal:** The objective of this study is to investigate novel fault-tolerant mechanisms, inspired by human motor control principles, to improve the robustness and safety of powered transfemoral (TF) prostheses. We will accomplish our research objectives by pursuing three specific aims: 1) To systematically determine the effects of imposed prosthesis errors on objectively measured walking stability of amputee-prosthesis systems. 2) To systematically determine the effects of imposed prosthesis errors on perceived walking stability in amputees. 3) To demonstrate the capacity of robust lower limb prosthesis control by mimicking human motor control mechanisms.

**Faculty:**
- **Filer:** Co-I (9% effort)

<table>
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<tr>
<th>NCSU/RISF Program</th>
<th>Bandodkar (PI)</th>
<th>02/01/2022 – 01/31/2023</th>
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<tr>
<td></td>
<td>$31,250</td>
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</table>
| Title: Soft, wearable, sweat sensors for monitoring the effects of ill-fitted prosthetic sockets and risks of infection on the residual limb skin of amputees  
**Goal:** In this proposal we seek to develop the first examples of soft, wearable sensors for monitoring sweat lactate and pH produced by the residual skin of amputees using prostheses to study the effect of socket fitting on sweat composition.  
**Faculty:**  
- **Filer:** Co-PI (No salary support) |
|---|---|---|
| R00HD091375 NIH/NICHD  
**Title:** Brain Network Connectivity Measures In Early Stroke Rehabilitation  
**Goal:** This project will use multi-modal neuroimaging (EEG and resting-state fMRI) to derive biomarkers of motor recovery in individuals early post-stroke admitted to an inpatient rehabilitation facility.  
**Faculty:**  
- **Baratta:** Consultant (no salary support) |
| 5R21AG061728-02 NIH  
**Title:** Easing the Burden of Dementia Caregiving: A Telephone-delivered Mindfulness Intervention for Rural, African American Families  
**Goal:** The project’s specific aims are: 1) to determine the feasibility and acceptability of a telephone-delivered mindfulness training intervention (TMT) in decreasing caregiver burden among rural, African American informal caregiving teams of people with dementia; 2) to explore effects of the training on relevant secondary outcomes for both caregiving team members, including emotional regulation; tolerance of uncertainty; emotional and physical health; family conflict within the informal caregiving team; and self-efficacy; 3) to explore comfort with and willingness to adopt technologies (e.g. telephone-based, web-based) to access mindfulness practices and existing caregiving educational resources.  
**Faculty:**  
- **Gaylord:** Co-I (15% effort)  
- **Faurot:** Co-I (10% effort) |
| PR141560 Department of Defense, Henry Jackson Foundation for the Advancement of Military Medicine  
**Title:** Targeted Alteration of Dietary Omega-3 and Omega-6 Fatty Acids for the Treatment of Post-Traumatic Headache  
**Goal:** A two-arm multi-site RCT designed to examine the impact of n-3 and n-6 manipulation in a whole foods diet for soldiers with post-traumatic headache.  
**Faculty:**  
- **Faurot:** Site PI (23% effort) |
| T32-AT003378 NIH  
**Title:**  
**Goal:**  
**Faculty:**  
- **Gaylord/Mann (PIs)**  
- **Faurot:** Site PI (23% effort) |
<table>
<thead>
<tr>
<th>Title: Research Training Fellowship in Complementary and Integrative Healthcare</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goal: The goal of this T-32 Research Fellowship is to cultivate well-trained, independent researchers for leadership in investigating efficacy, effectiveness, safety and mechanisms of action of complementary therapies and integrative health-care approaches.</td>
</tr>
<tr>
<td>Faculty:</td>
</tr>
<tr>
<td>Gaylord: Lead PI (No Salary Support)</td>
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<tr>
<th>*Mayday Fund</th>
<th>Carneiro (PI) $88,000</th>
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<tbody>
<tr>
<td>Title: Novel Management of Lumbar Radiculopathy-a Dietary Approach</td>
<td></td>
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<tr>
<td>Goal: This prospective, single-blind, parallel-group randomized controlled clinical trial of diagnosed and managed lumbar radiculopathy patients is designed to gather preliminary evidence to test the efficacy and safety of altering the dietary n-3 and n-6 fatty acids.</td>
<td></td>
</tr>
<tr>
<td>Faculty:</td>
<td></td>
</tr>
<tr>
<td>Carneiro: Lead PI (0% Effort)</td>
<td></td>
</tr>
<tr>
<td>Faurot: Project Manager (0% Effort)</td>
<td></td>
</tr>
<tr>
<td>Gaylord: Co-I (0% Effort)</td>
<td></td>
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<tr>
<td>Johnston: Clinical Research Coordinator (0% Effort)</td>
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<table>
<thead>
<tr>
<th>**UNC Center for Health Innovation</th>
<th>Baratta and Cassidy (Co-PIs)</th>
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</thead>
<tbody>
<tr>
<td>Title: Stroke Management Training and Inpatient Rehabilitation Discharge Education (STRIDE Program)</td>
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<tr>
<td>Goal: Our proposal introduces a unique and innovative program utilizing commercially available activity monitors, social support, and education to address the lack of structure and support often encountered immediately following hospital discharge.</td>
<td></td>
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<tr>
<td>Faculty:</td>
<td></td>
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<tr>
<td>Baratta: Co-PI (In-Kind)</td>
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<tr>
<th>**NIH/NICHD Award 1R01HD108473</th>
<th>Yong (PI)</th>
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<tbody>
<tr>
<td>Title: A personalized, community-based rehabilitation sensing system to improve daily functions of stroke survivors</td>
<td></td>
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<tr>
<td>Goal: The objective of this project is to develop a personalized community-based rehabilitation sensing system to improve daily functions of these individuals. The system will include three essential components: a nanomaterial-enabled multimodal wearable sensor network to monitor arm and leg functional activities; a low-power data acquisition, processing, and transmission protocol; and a smart phone APP to communicate training outcomes to the users and clinicians via internet and receive feedback from them.</td>
<td></td>
</tr>
<tr>
<td>Faculty:</td>
<td></td>
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<tr>
<td>Baratta: Co-I (4%)</td>
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<tr>
<th>***R34 University of Connecticut Health Center/NIH, IPF 21-0254</th>
<th>Powell (Contact PI), Gaylord (UNC PI)</th>
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<tbody>
<tr>
<td>Title: Project B.R.E.A.T.H.E. (Brothers, Reclaiming, Emotional, Awareness, Tranquility, Healing &amp; Ex-istence): Disrupting Racialized Stress, Trauma, &amp; Problematic Substance Use in Young Adult Black Men</td>
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CLINICAL TRIALS

N/A

PENDING

<table>
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<tr>
<th>Title: Diversity Supplement to Group-based mindfulness for patients with chronic low back pain in the primary care setting</th>
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</thead>
<tbody>
<tr>
<td>Goal: The goal of the scoping review would be to inform the development of a dietary supplement data collection instrument for the OPTIMUM study as well as to give the candidate experience in this increasingly important methodology.</td>
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<table>
<thead>
<tr>
<th>Faculty:</th>
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<tbody>
<tr>
<td>Morone: PI</td>
</tr>
<tr>
<td>Gaylord: Co-I</td>
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<tr>
<td>Faurot: Advisor</td>
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*Unassigned
IPF 21-6000
Roth (PI)$151,218
09/01/2021-08/31/2022

<table>
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<tr>
<th>Title: Scaling-Up Integrative Pain Management in Federally Qualified Health Centers</th>
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<tbody>
<tr>
<td>Goal: Dr. Roth’s long-term career goal is to become an independent investigator evaluating implementation of IPM interventions to reduce the burden of chronic pain and mitigate risks associated with opioid use, particularly in low-income communities.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Faculty:</th>
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<tbody>
<tr>
<td>Roth: PI (80% Effort)</td>
</tr>
<tr>
<td>Gaylord: Co-mentor (0% Effort)</td>
</tr>
<tr>
<td>Subaward</td>
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<tr>
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<tr>
<td><strong>Title:</strong> Project B.R.E.A.T.H.E. (Brothers, Reclaiming, Emotional, Awareness, Tranquility, Healing &amp; Existence): Disrupting Racialized Stress, Trauma, &amp; Problematic Substance Use in Young Adult Black Men</td>
</tr>
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<td><strong>Faculty:</strong></td>
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<thead>
<tr>
<th>Unassigned</th>
<th>Gaylord (PI)</th>
<th>09/01/2021-08/31/2024</th>
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<td><strong>Title:</strong> Supplement to Project B.R.E.A.T.H.E. (Brothers, Reclaiming, Emotional, Awareness, Tranquility, Healing &amp; Existence): Disrupting Racialized Stress, Trauma, &amp; Problematic Substance Use in Young Adult Black Men</td>
<td><strong>Goal:</strong> N/A</td>
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<td><strong>Faculty:</strong></td>
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<th>Peter Duquette (PI)</th>
<th>09/01/2021-08/31/2026</th>
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<tbody>
<tr>
<td><strong>Title:</strong> Risk Stratification of Postconcussive Symptoms in Children to Promote Health Outcomes and Academic Performance</td>
<td><strong>Goal:</strong> N/A</td>
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<tr>
<td><strong>Faculty:</strong></td>
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<tr>
<th>1R21AA030121-01</th>
<th>Boettiger (PI)</th>
<th>04/01/2022-03/31/2024</th>
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<tbody>
<tr>
<td><strong>Title:</strong> Frontolimbic circuit mediation of mindfulness training effects on behavioral flexibility in emerging adults</td>
<td><strong>Goal:</strong> This work will provide proof of concept for an accessible and inexpensive intervention to ameliorate the impairments associated with adolescent alcohol misuse, which in turn may reduce risk for future AUD. It may also identify objective targets for use in developing novel treatments to promote flexible, goal-directed actions when faced with distracting stimuli that perpetuate alcohol misuse. This approach may substantially improve our ability to cope with the public health challenges of AUDs, a leading cause worldwide of preventable death.</td>
<td></td>
</tr>
<tr>
<td><strong>Faculty:</strong></td>
<td>Gaylord: 0.50 CM (Co-I)</td>
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<tr>
<th>1R01MD017051-01</th>
<th>Hernandez (Lead PI) and Gaylord (PI)</th>
<th>09/01/2021-08/31/2025</th>
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<tbody>
<tr>
<td><strong>Title:</strong> Digital health platform to deliver Mindfulness and as a stress management Intervention Leveraging Electronic Health Records for racial and ethnic populations during the COVID-19 pandemic (SMILE).</td>
<td><strong>Faculty:</strong></td>
<td></td>
</tr>
</tbody>
</table>
Major Goals: The overall objective of this proposal is to investigate effectiveness and sustainability of our Digital Health Platform, to delineate MBSR mechanisms of active by measuring changes in psychological self-reported metrics and autonomic balance using HRV, and to examine associations between COVID-19 related stress and mental health outcomes, resilience, and HRV.

<table>
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<tr>
<th>R34</th>
<th>Schuman-Oliver (Lead PI); Gaylord, Consortium PI</th>
<th>07/01/2022-06/30/2027</th>
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<tr>
<td>Title: Enhancing equity by addressing barriers to mindfulness programs for chronic pain.</td>
<td>Boettiger, C (Lead PI); Gaylord (co-I)</td>
<td>12/2022-11/2024</td>
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<tr>
<td>Total award amount</td>
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<td></td>
</tr>
<tr>
<td>Major Goals: This work will provide novel mechanistic insight into the utility of an accessible and inexpensive intervention to ameliorate the impairments associated with adolescent alcohol misuse, which in turn may reduce risk for future AUD.</td>
<td>Maddox, B &amp; Mazurek, M (PIs) and Gaylord (co-I)</td>
<td>03/2023-05/2026</td>
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<tr>
<td>Total Award Amount -</td>
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<td>PCORI</td>
<td>Maddox, B &amp; Mazurek, M (PIs) and Gaylord (co-I)</td>
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<tr>
<td>Total Award Amount (including indirect costs):</td>
<td>$4058,499</td>
<td></td>
</tr>
<tr>
<td>Major Goals: This study will conduct the first large-scale head-to-head comparison of the two most widely studied mental health interventions for autistic adults: cognitive-behavioral therapy (CBT) and mindfulness-based therapy (MBT)</td>
<td>Sturmer (PI)</td>
<td>05/01/2022-04/30/2027</td>
</tr>
<tr>
<td>Title: Propensity scores and preventative drug use in the elderly</td>
<td>Chilcoat (PI)</td>
<td>$50,000</td>
</tr>
<tr>
<td>Goal: This proposal is timely: linked data are becoming more available and the role of real-world evidence in regulatory decision making is a central discussion point. This work will directly inform clinically relevant treatment decisions, provide reliable evidence unavailable from RCTs, and improve individual and population health for older adults.</td>
<td>UNC Lineberger Comprehensive Cancer Center Pilot Grant Program</td>
<td>07/01/2022-06/30/2023</td>
</tr>
<tr>
<td>Title: Breast Cancer survivorship in African American women: Cultural Adaptation of an Integrative Group Medical Visit (IMGV) model</td>
<td>Chilcoat (PI)</td>
<td>$50,000</td>
</tr>
<tr>
<td>Goal: This study will explore the ethno-cultural beliefs of African American breast cancer survivors, adapt an Integrative Medicine Group Visit curriculum for this population, and pilot the group.</td>
<td>Barnhill: Co-I (in kind)</td>
<td>07/01/2022-06/30/2023</td>
</tr>
<tr>
<td>Faculty:</td>
<td>Roth: Co-I (in kind)</td>
<td></td>
</tr>
<tr>
<td>NOSI</td>
<td>Sheffield-Abdullah (Lead PI), Gaylord (co-PI)</td>
<td>09/01/2022-8/31/2024</td>
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<td>-----------</td>
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<td>----------------------</td>
</tr>
</tbody>
</table>
| **Title:** Developing and pilot testing implementation strategies for a culturally-adapted mindfulness-based stress reduction program to address stress and anxiety in Black pregnant women  
**Goal:** This study will develop and test the feasibility, acceptability, and initial effectiveness of implementation strategies for a culturally-adapted mindfulness-based stress reduction (CA-MBSR) program aimed at improving stress and anxiety in Black pregnant women and their associated adverse birth outcome risk.  
**Faculty:**  
- **Gaylord:** Co-PI (15% effort)  
- **Faurot:** Co-I (10% effort)  
- **Roth:** Co-I (5% effort) |

<table>
<thead>
<tr>
<th>R01HD110519</th>
<th>Huang (PI)</th>
<th>09/2022 – 08/2027</th>
</tr>
</thead>
</table>
| **Title:** Toward Restoration of Normative Postural Control and Stability using Neural Control of Powered Prosthetic Ankles  
**Goal:** The objective of this study is to investigate the effects of training to use a direct electromyography-controlled powered prosthesis ankle on the transtibial amputees' (Aim 1) balance and postural stability, (Aim 2) neuromuscular coordination mechanisms, and (Aim 3) cognitive processes (embodiment and cognitive load), compared to their prescribed passive devices.  
**Faculty:**  
- **Filer:** Co-I (16% effort) |

<table>
<thead>
<tr>
<th>DOD</th>
<th>Bandodkar (PI)</th>
<th>01/01/2023 – 12/31/2026</th>
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</table>
| **Title:** Epidermal Sensors for Wireless and Enhanced Amputee skin Tracking (E-SWEAT)  
**Goal:** We seek to develop Epidermal Sensors for Wireless and Enhanced Amputee skin Tracking (E-SWEAT), a new class of wearable sensors for simultaneous monitoring of lactate, pH, and sweat rate (S.R.) in the |
sweat produced by the residual limb of amputees. The goal is to study the correlation between sweat biomarker concentrations and the skin health of amputees and investigate if the results obtained by E-SWEAT can be used to produce skin assessment guidelines that will aid prosthetists in identifying ill-fitted sockets and potentially assist dermatologists in the early detection of pressure ulcers (PUs).

**Faculty:**

- Filer: Co-I (10% effort)

<table>
<thead>
<tr>
<th>NIH NIDILRR NCSU</th>
<th>Huang (PI)</th>
<th>$2,500,000</th>
<th>04/2023 – 03/2028</th>
</tr>
</thead>
</table>

**Title:** Promoting Versatility, Efficiency, and Prosthesis Embodiment in Individuals with Limb Loss via Bionic Prostheses

**Goal:** The overarching goal of our Bionic Research Core (BRC) is to develop and translate breakthrough technologies in prostheses (including both upper limb and lower limb prostheses) in order to improve the quality of life for individuals with major limb amputations.

**Faculty:**

- Filer: Co-I (10% effort)

<table>
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<tr>
<th>NIH R01 NCSU</th>
<th>Sharma (PI)</th>
<th>04/2023 – 03/2028</th>
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</table>

**Title:** Person-specific FES and Exoskeleton Assistance for High Power and Fatigue Resistant Mobility in People with Paraplegia

**Goal:** This study aims to integrate functional electrical stimulation with a powered exoskeleton to facilitate sit to stand transfers and ambulation for people with paraplegia. It will employ a novel muscle ultrasound paradigm to monitor muscle fatigue and modulate FES output based on fatigue and expected intrinsic power generation using a person-specific mathematical model.

**Faculty:**

- Filer: Co-I (5% effort)
- Cleveland: Co-I (5% effort)

**OTHER RESEARCH ACTIVITIES—**

**Alexander**

Co-Investigator on IRB – “Hand Motor Control in Individuals with Cerebral Palsy”

Co-Investigator on IRB - “Targeted Therapy for Finger Individuation in Children with Cerebral Palsy”

Co-Investigator - EEG in Children with Hemiplegia for Biomarker Development: The EMBARK Study (IRB Number: 21-2301)

**Baratta**

Co-Investigator – “Online Prediction of Gait Related Trips Post-Stroke” (IRB Number 19-2068)

Co-Investigator – “Achieving Real World Measurement and Biofeedback of Gait Propulsion” (IRB Number 20-3017)

Faculty Mentor (Riden) – Stroke Rehabilitation Education Express Workout QI Project

Faculty Mentor (Vijay) – Survey of Admission and Consult Processes at Academic PM&R Departments Nationwide

**Barton**

Lead Investigator- “Cerebral Palsy Research Network (CPRN) Patient Registry: An infrastructure to capture patient/caregiver outcomes over the long-term” (IRB Number 21-1709)

**Cleveland**

Co-Investigator – “Mental health services needs of individuals with spinal cord injury” (with Dr. Blaise
Co-Investigator – “Educational needs of mental health providers with an interest in providing clinical services to survivors of spinal cord injury” (with Dr. Blaise Morrison) (IRB Number: 19-0990)

Duquette
Co-Investigator - “Understanding Mental Health Stigma and Readiness to Engage in Psychotherapeutic Rehabilitation Post-Concussion” (IRB Number: 20-3457)
Co-Investigator - “Long-Term Neurodevelopmental Outcomes Following Surgery for Craniosynostosis in a Regional Population” (IRB Number: 19-1741)
Co-Investigator – “Post Concussive Symptoms in Children with Mild Traumatic Brain Injury (mTBI): A Pilot Study (IRB Number: 19-2226)
Investigator – “A precision head motion measurement tool applied and integrated with neurocognition in sport” (IRB Number: 20-0185)
Co-Investigator – “ATTAC Forces Initiative Project 2: Special Operations Forces Holistic Evaluation of Readiness in Operators (SOF-HERO)” (IRB Number 20-0899)
Consultant – “A Phase 1/2, Multicenter, Open-label, Single-dose, Dose Ranging Study to Assess the Safety and Tolerability of SB-913, a rAAV2/6-based Gene Transfer in Subjects with Mucopolysaccharidosis II (MPS II) (IRB Number 20-81000)
Co-Investigator – “Neurologic Function across the Lifespan: A Prospective, LONGitudinal, and Translational Study for Former National Football League (NFL-LONG) (IRB Number 19-1065)

Faurot
Research on Statistical Analysis on the Association between Nutritional Factors and Key Health Outcomes (funded by a gift to the department)
Systematic Review: Mind-body Interventions for Opioid-treated Pain (with Eric Garland and team)
Systematic Review: Interventions for Cancer-related Cognitive Impairment (with Zev Nakamura, Aaron Piepmeier, Jeffrey Scott Weffel, and Gilson Honvoh)
Research on Brief Mindfulness Intervention for Chronic Pain, with Carrie Brintz (PI on TraCs $2K; Faurot, Co-I). Research on understanding frailty transitions; updating control for frailty models with ICD-10-CM codes and medication mechanisms (with the Pharmacoepidemiology Medicare and Propensity Scores in the elderly research groups in the Department of Epidemiology, UNC School of Public Health).
Nutrition research—Dr. Faurot leads the data analysis and manuscript preparation teams for the Nutrition for Migraine Prevention study and leads the data analysis for the Nutrition for Lumbar Radiculopathy study and the Nutrition for Post-traumatic Headache study. Dr. Faurot and Dr. Zamora are preparing three new nutrition study proposals to be submitted to NIH (NIAMS, NCCIH, NINDS) in 2022.
Participation in research on integrative group medical visits for chronic pain and long COVID with Isabel Roth and Jessica Barnhill.
Research on the prevalence of dietary supplement and natural product use among patients with chronic pain (advising Nandie Elhadidy, post-bac).
Research on the associations between dietary supplement use and serum metabolites (and microbiome) in the Hispanic Community Health Study/Study of Latinos with Heather Greenlee, ND, PhD and Robert Kaplan, PhD, University of Washington

Filer

Gaylord
Co-investigator – “Interest in and Utilization of Complementary and Integrative Medicine in a Rehabilitation
Population” (part of the Whole Health grant) (with Dr. Thompson) (IRB Number 18-2420)
Research on Brief Mindfulness Intervention for Chronic Pain, with Carrie Brintz (PI on TraCs $2K; Gaylord, Co-I).
   Participated as mindfulness co-instructor for the intervention, for three cohorts.
Systematic Review: Mind-body Interventions for Opioid-treated Pain (with Eric Garland and team)
Research on Mindfulness and Exercise for Dept. of Exercise Physiology. Dr. Gaylord, who was mindfulness
   instructor/Interventionist for Gabriel Zieff, PI, for his master’s thesis research project, later collaborated
   with other investigators in submitting a manuscript on research findings.
Research on Mindfulness for Pre-menstrual distress disorder (PMDD) with Dr. Girdler, PI. Dr. Gaylord
   participated in preparing a manuscript for publication which reported on the primary outcomes of this
   study.
Research on Nutrition for Migraine Prevention. Dr. Gaylord participated with other team members in
   preparing the primary outcomes manuscript as well as other publications, including attending twice
   monthly research group meetings.
Data Safety Monitoring Committee, November 2018 – December 2019, Serenity Study/Mindfulness for
   Hypertension.

**Harris**
Lead investigator – “Use of Color Trails Test and D-KEFS Design Fluency as Better Predictors of Cognitive
   Functioning in Native English Speakers with Lower Education” (IRB Pending)
Lead investigator – “Lateralization of Cognitive Impairment in Temporal Lobe Epilepsy Using the
   Neuropsychological Assessment Battery (NAB) Memory Module” (IRB Number: 15-1826)

**Rauch**
Co-Investigator --- Mindful Coping and Communication in Caregiving (with Dr. Gaylord)
Co-Investigator --- “OPTIMUM” Group-based mindfulness for patients with chronic low back pain in the primary
   care setting (with Drs. Gaylord & Faurot)
PI---OPTIMUM Process Evaluation (with Dr. Gaylord
Co-PI---Nourish to Flourish: Integrative Medical Group Visits for Patients with Long-COVID (with Dr. Barnhill)
Systematic Review of Implementation Strategies for Group Medical Visits for Patients with Chronic Pain (PI)

**Karvelas**
Co-investigator- Educational intervention of cadaver workshop for ultrasound guided interventions on resident
   procedural confidence with Dr. Sharp

**Shuping**
Mast Cell Activation Syndrome Work Group - with immunology, GI, cardiology – in process

**Telhan**
Patient recruitment – Nutrition for Lumbar Radiculopathy Study
Patient recruitment – Acute/Better Back Care Studies

**Thompson**
Co-Investigator – “Mental health services needs of individuals with spinal cord injury” (with Dr. Blaise
   Morrison) (IRB Number: 19-1338)
Co-Investigator – “Educational needs of mental health providers with an interest in providing clinical services
   to survivors of spinal cord injury” (with Dr. Blaise Morrison) (IRB Number: 19-0990)
Co-Investigator – “Describing cognitive and psychological functioning in former professional American football
   players” (with Dr. Merz) (IRB Number: 17-2754)
Co-Investigator – “Memantine for Prevention of Cognitive Decline during Adjuvant or Neoadjuvant
Chemotherapy in Patients with Breast Cancer” (with Dr. Zev Nakamura – K2 grant)

Zamora
NIH grant proposals in progress:
- NIAMS R34 grant proposal: diet for chronic low back pain RCT (Lead PI, Faurot co-PI, submitted 3/2022)
- NINDS R01 grant proposal in collaboration with NC State College of Veterinary Medicine: using an intergenerational model of diet-induced chronic inflammatory pain to examine biochemical effects of H3L6 diet (co-PI)
- NCCIH grant proposal to develop new diet/supplement intervention for headache (PI, with Faurot)

Nutrition for Lumbosacral Radiculopathy Pilot RCT:
- Received funding for mass spec analysis of oxidized lipids
- Longitudinal statistical analysis of main endpoints
- Abstract submitted to the International Assoc. for the Study of Pain 2022 Conference in Canada (first author)

Nutrition for Migraine RCT:
- Abstract submitted to the American Society of Nutrition 2022 online conference (senior author)
- Abstract submitted to the International Assoc. for the Study of Pain 2022 Conference in Canada (senior author)
- Manuscript on whether circulating fatty acids are causal mediators of diet-induced headache reduction (first author, in progress)
- Manuscript on secondary endpoints (senior author, in progress)

Other Research:
- Manuscript on association of blood fatty acids and tissue fatty acids in autopsy samples (first author; in progress)

Presentations

International Presentations

National Presentations (Completed)
2022 Evidence Based Practices for Recruiting Diverse Applicants to PM&R Residency 5/24/2022 (AAP, New Orleans, LA) (Filer)
2022 UNC Long COVID Symposium “Nourish to Flourish: Integrative Medical Group Visits for Patients with Long COVID” 5/13/22, (Roth & Barnhill)
2022 Panelist for Sisters in Public Health Webinar “Becoming a Public Health Professional, 4/9/22. (Roth)
2022 Panelist for New York State Long COVID Symposium sponsored by NY State Department of Health. 2/3/2022. (Baratta)
2022 “Integrative Medicine Group Visits for Chronic Pain: Research and Clinical Implementation” University of California at San Francisco, Osher Center for Integrative Health, Invited Speaker, 1/11/2022 (Roth)
2021 Panelist for Project ECHO webinar “Overview of PASC, ME/CFS, OPIFI.” 1/13/2022. (Baratta)
2021 “General Approach to Long COVID Care for Primary Care Providers,” ECHO Institute Long Covid & Fatiguing Illness Recovery Program. 1/6/2022. (Baratta)


2021 “Long COVID Syndrome and Implications for the Courts.” National Courts and Sciences Institute virtual presentation. 8/13/2021. (Baratta)

2021 “Stroke Rehabilitation.” UNC Introduction to PM&R Virtual Lecture Series. 8/16/2021. (Baratta)

**Statewide and Regional Presentations (Completed)**


2022 “Diagnosis and Management of Long COVID” SOVAH Health CME Programs. 6/2/2022. (Baratta)

2022 “Whole Health: Complementary and Integrative Approaches” Town of Chapel Hill Employees. January 12, 2022 (Barnhill)

2021 “Dysautonomia” UNC Interdisciplinary Therapy Group 6/2021 (Shuping)


2022 “Q&A with Our Neuropsychologists” panel discussion during webinar for the 2022 TBI Institute through the North Carolina Department of Public Instruction. 3/9/2022. (Duquette)

**Teaching Activities**

**FORMAL SEMESTER COURSES**

**Faurot**

PUBH 741 – Quantitative Methods for Healthcare Professionals
PASC 736/806 – Evidence-based Medicine I & II—Fall and Spring Semesters of 2019-2020
DPET 831—Quantitative Methods for Clinical Research—Spring 2020

**Gaylord**

PME 7452 – Fieldwork in Alternative and Complementary Therapies – Fall and Spring Semesters of 2019-2020
PME 752B – Science of Medicine CAM Selective – Fall and Spring Semesters of 2019-2020
PME 450/250 – Principles and Practices of Alternative and Complementary Therapies of Fall 2021
FMED APS 401 – CAM Selective (7 blocks out of 12 each year) – Fall and Spring Semesters of 2019-2020
PME 601 – Mindfulness and Self-Compassion for Caring Professions – Spring Semester of 2022

**Harris**

EDUC 763 – Biological and Developmental Basis of Behavior – Spring Semester 2021

**Roth**

PME 450/250 – Principles and Practices of Alternative and Complementary Therapies— Fall 2021
SPCL 400 (Section 312): The Culture, Science, and Breadth of Integrative Medicine—Spring 2022

**Shuping**

PME 401 – Introduction to Physical Medicine and Rehabilitation
PME 401 B – Science of Medicine Selective: Introduction to Physical Medicine and Rehabilitation
PMED 401 03 – Fourth Year Student Advanced Clinical Selective: Introduction to Physical Medicine and Rehabilitation

Telhan

MTEC121 – Social and Health Systems 1 and Social and Health Systems 2. Dr. Telhan holds a Secondary Appointment in UNC’s Social Medicine Department as an Assistant Professor, responsible for 14 students and teaches 12 sessions per semester, covering topics including: medical humanities, literature, bioethics, healthcare policy, and leadership.

MTEC 304 – Social and Health Systems 4 is a required course for all Application Phase medical students based at the Chapel Hill campus of the UNC School of Medicine. It is a year-long course that provides a setting in which students can reflect on and discuss aspects of the practice of medicine that they will encounter in their clinical experiences, but may not otherwise be a part of the formal curriculum in the clinical clerkships. The course includes three component content areas: (A) Clinically Relevant Basic Science, (B) Population Health, and (C) Critical Reflection, Inter-professional Education (IPE), Advanced Communication Skills and Ethics (RICE).

HSS SOCM Scholarly Selective – 3rd and 4th Year Medical Student Advanced Humanities Selectives.

OTHER

2021 “Carolina First Look: Program Director Panel” Virtual recruitment and mentorship event hosted by Office of Inclusive Excellence. (Filer)

2021 “Neuropsychological Assessment.” Presentation to UNC Clinical Psychology doctoral students (Duquette)

2021 “The Collaborative Effort to Develop the UNC COVID Recovery Clinic.” Presentation to the UNC Lineberger Staff Retreat. 7/15/2021. (Baratta).


2021 “PASC – Post-Acute Sequelae of SARS-CoV-2 Infection.” Presentation to UNC Campus Health. 9/1/2021. (Baratta)


2021 “PASC – Post-Acute Sequelae of SARS-CoV-2 Infection and the UNC COVID Recovery Clinic.” Presentation to UNC Department Heads meeting. 10/20/2021. (Baratta)


2021 “The Past, Present and Future of Pediatric Rehabilitation at UNC.” Grand Rounds Presentation for UNC Pediatrics. 12/02/2021 (Alexander, Barton, Yip)

2021 “Advance Care Planning and EOL Conversations.” Grand Rounds Presentation for UNC Dept PM&R. 12/08/2021 (Zinner)

2021 “Emotional/Cognitive Effects of MS, Parkinson’s, and More” Presentation for UNC PM&R Residents 6/2021. (Harris)

2021 “Dementia, Cognition, and Rehabilitation” UNC PM&R Grand Rounds. 7/2021. (Harris)

2021. “Self-Compassion: A Heartfelt Response to Stress”, presentation to UNC School of Pharmacy Faculty and Staff. 12/2021 (Lathren)

2022 “Neuropsychological Assessment” Presentation for UNC Neurology Residents. 1/7/22 (Kanser)

2022 “Neuropsychology of Epilepsy and Epilepsy Surgery” Presentation for UNC Neurology Epilepsy Fellows. 2/06/2022 (Harris)

2022 “What it means to be a SNF Medical Director” Panel discussion, Duke Geriatric Fellows. 2/10/2022 (Zinner)

2022 “Acute Change of Condition”, presentation to SNF team Rex Rehab. 03/04/2022 (Zinner)

2022 “Long COVID and the UNC COVID Recovery Clinic,” presentation the UNC Family Medicine residency program. 3/9/2022 (Baratta)

2022 “Primer on Neuropsychological Assessment”, presentation to UNC Clinical Psychology Doctoral Students. 4/6/2022 (Duquette)

2022 “Neuropsychological Assessment: An Overview for Psychiatrists”, presentation to UNC PGY-3 Psychiatry Residents. 4/20/2022 (Duquette)

2022. “Caring for Yourself While You Care For Others: A Heartfelt Response to Stress.”, presentation to Frank Porter Graham Inclusion Institute participants. 4/28/22 (Lathren)

2022 “Neuropsychology in Epilepsy with Clinical Cases” Neurology Resident Lecture Series. 6/02/2022 (Harris)

**Professional Service**

**National and Regional Organizations**

American Academy of Cerebral Palsy and Developmental Medicine (AACPDM)
Member, Lifespan Care Committee (Rauch)
Member, Adaptive Sports and Recreation Committee (Barton)

AACPDM Lifespan Care Committee
Member (Rauch)
Academic Consortium for Integrative Medicine & Health
Member, Research Working Group (Faurot)
Member, Steering Committee (Gaylord)
Member, Research Committee (Gaylord)
Member, Policy Committee (Gaylord)

AMDA – The Society for Post-Acute and Long-Term Care Medicine
Member (Thananopavarn)
Member (Zinner)

American Academy of Clinical Neuropsychology (AACN)
Member (Harris)
Member (Duquette)

American Academy of Physical Medicine and Rehabilitation
Member, Telehealth Innovation Workgroup (Alexander)
Member, Long COVID QI Collaborative (Baratta)
Member, (Shuping)
Member, (Zinner)
Member, (Thananopavarn)

American Association of Neuromuscular & Electrodiagnostic Medicine (AANEM)
Member (Filer)
EDX SAE Committee 2022 (Karvelas)

American College of Occupational & Environmental Medicine
Task Group, ACOEM Guidelines for the Medical Evaluation of Law Enforcement Officers (Hill)
Alternate Delegate, SEACOM (Hill)

American Congress of Rehabilitation Medicine (ACRM)
Member (Thompson)
Task Group, Complementary and Integrative Rehabilitation Medicine (Thompson)
Member (Baratta)
Task Group, Stroke Transitions (Baratta)
Member (Shuping)
Brain Injury ISIG (Shuping)

American Journal of PM&R
Ad Hoc Reviewer (Karvelas)

Association of Academic Physiatrists (AAP)
Member, Chair’s Council (Alexander)
Member, Wellness Committee, Chair’s Council (Alexander)
Member, Education Committee (Baratta)
Member, National Online Residency Curriculum Committee (Filer)
Member, Residency and Fellowship Program Director Council (Filer)
Member, Diversity & Community Engagement Committee (Filer)
Member, Rehabilitation Medicine Scientist Training Program (Hill)
Member, Residency and Fellowship Program Director Council (Rauch)
Regional Mentor (Shuping)
Reviewer, Physiatry '22 Abstracts (Baratta)

American Public Health Association
Chair-Elect, Section on Integrative, Complementary, and Traditional Health Practices (Roth)
Executive Committee Program Planning Co-Chair, Treasurer, Section Councilor, Section on Integrative, Complementary, and Traditional Health Practices (Faurot)
Member, Sections on Food and Nutrition, Epidemiology (Faurot)
Member, NC Public Health Association (Faurot)
Member, Sections on Integrative Complementary and Traditional Health Practices; Environment; and Alcohol and Substance Abuse (Gaylord)

American Society for Nutrition
Member, (Faurot)

Brain Injury Advisory Council of North Carolina
Co-Chair, Children and Youth Committee (Duquette)

Canadian Journal on Aging
Ad Hoc Reviewer (Roth)

Canadian Journal on Aging
Ad Hoc Reviewer (Roth)

Evidence-based Complementary and Alternative Medicine Journal
Editorial Board (Faurot)

Foundation for Physical Medicine and Rehabilitation
Member, Pediatric Advisory Committee (Alexander)

International Neuropsychological Society (INS)
Member (Harris)

International Society of Physical & Rehabilitation Medicine (ISPRM)
Member (Alexander)

Journal of Comparative Effectiveness Research
Ad Hoc Reviewer (Faurot)

NIH NCCIH Study Section
Ad Hoc Reviewer (Faurot)
Grant Review Panelist (Gaylord)

National Center for Case Study Teaching in Science
Ad Hoc Reviewer (Baratta)

National Courts and Sciences Institute
Member, Board of Directors (Baratta)

North Carolina Integrative Medical Society
Member of Outreach Committee (Gaylord)
North Carolina Psychological Association (NCPA)
Member (Duquette)
Member (Allen)

Project ECHO
Subject Matter Expert (Baratta)

PM&R Journal
Ad Hoc Reviewer (Faurot)
Ad Hoc Reviewer (Baratta)

Public Health Reports
Ad Hoc Reviewer (Roth)

Sports Neuropsychology Society
Member, Nominations and Elections Committee (Duquette)
Member (Thompson)

SPROUT-CTSA Collaborative Telehealth Research Network
Member for 2019-2024, Advisory Committee (Alexander)

Telehealth Innovation Workgroup, American Academy of Physical Medicine and Rehabilitation

UNC-Chapel Hill Organizations

Alexander
Chair, PM&R
Medical Director, UNC Center for Rehabilitation Care
Director of Pediatric Rehabilitation, UNC SOM and NC Children’s Hospital
Chair, Internal Audit and Compliance Committee, UNC Faculty Physicians
Chair, Board of Directors, UNC Orthotics and Prosthetics, LLC
Member, Wellness Committee, PM&R
Member, Dean’s Advisory Committee, UNC SOM
Member, Education Leadership Committee, Academic Council, UNC SOM
Member, Faculty Physicians Board, UNC Hospitals
Member, UNC Inpatient Rehabilitation Leadership Committee, UNC Hospitals
Member, Hillsborough Hospital Planning Committee
Member, Hillsborough Hospital Design Committee
Member, Residency Program Evaluation Committee, PM&R
Member, Space Committee, PM&R
Member, Promotions Committee, PM&R
Member, Diversity and Inclusion Committee, PM&R
Member, Spine Center Executive Committee, UNC Hospitals
Member, Medical Staff Executive Committee, UNC Hospitals
Member, Hillsborough Tower II Steering Committee, UNC Hospitals
Member, Spina Bifida Family Conference Planning Committee, Pediatric Orthopedics, Neurosurgery and PM&R
Member, North Carolina Cancer Hospital Cancer Committee, NC Hospitals
Member, UNC School of Medicine Education Committee
Member, Disability Workshop Planning Committee (2021)
Member, Department of Surgery 5 Year Review Committee
Member, Enterprise Risk Management Oversight Committee, UNC Hospitals
Member, UNC Musculoskeletal (MSK) Specialty Program PRO Vendor Selection Committee (2022)
Member, Pro Director Search Committee, UNC Hospitals
Faculty, Closed Loop Engineering for Advanced Rehabilitation, UNC/NCSU BME

Baratta
Medical Director of Stroke Rehabilitation, PM&R
Founder and Co-Director, COVID Recovery Clinic
Member, Rehab Administrative Committee, UNC Hospitals
Member, Inpatient Rehabilitation Quality Council, PM&R
Member, Residency Program Evaluation Committee, PM&R
Super-User, PM&R and UNC Hospitals
Faculty Member, Closed-Loop Engineering for Advanced Rehabilitation (CLEAR)
Member, Long COVID Conference Planning Committee
Member, P&D Director Search Committee, UNC Hospitals
Member, Brain Injury Faculty Search Committee, UNC Hospitals

Barton
Associate Director of Pediatric Rehabilitation, UNC SOM and NC Children's Hospital
Member, Residency Program Evaluation Committee, PM&R
Chair, Pediatric Rehabilitation Search Committee, PM&R
Member, Clinical Competency Committee, PM&R
Facilitator, Pediatric Rehabilitation Journal Club, PM&R

Duquette
Member, Space Committee, PM&R
Co-Director, Psychological Services and Neuropsychology Program, PM&R

Faurot
Assistant Director, Program on Integrative Medicine
Member, PM&R Wellness Committee
Member and Coordinator, PM&R Research Committee
Member, PM&R Diversity, Equity, and Inclusion Committee
Member, Hillsborough Hospital Complementary Health Planning Committee

Filer
Program Director, PM&R Residency Program
Facilitator, Grand Rounds, PM&R
Member, Clinical Competency Committee, PM&R
Member, Education Leadership Committee, PM&R
Member, Graduate Medical Education Committee, UNC Hospitals
Member, Peer Coaching Program, UNC Center for Faculty Excellence
Member, Program Evaluation Committee, PM&R
Member, Rehab Administrative Committee, UNC Hospitals
Member, PM&R Research Committee
Member, Neurosurgery Chair Search Committee, UNC Hospitals

Gaylord
Director, Program on Integrative Medicine
Director, UNC Mindfulness-Based Stress and Pain Management Program
Member, UNC School of Medicine Well-Being Committee
Co-Director/Member, PM&R Wellness Committee
Member and Chair, PM&R Research Committee

Harris
Member, Wellness Committee, PM&R
Member, Rehabilitation Patient and Family Advisory Board, UNC Hospitals
Member, Psychology Internship Committee, UNC Chapel Hill
Co-Chair, PM&R Diversity, Equity, and Inclusion Committee, PM&R
Director of Training, Psychological Services and Neuropsychology Program, PM&R

Hill
Medical Director, Occupational Health, UNC Chapel Hill
Certifying Medical Authority, Biosurety Program, UNC Chapel Hill
Member, Emergency Threat Assessment Response Team, UNC Chapel Hill
Member, Clinical Occupational Exposures Subcommittee for Students, UNC Chapel Hill
Member, Environment, Health and Safety Leadership Team, UNC Chapel Hill
Member, Clinical Safety Committee, UNC Chapel Hill
Member, Tier III Safety Huddle, UNC Health/UNC Medical Center
Member, Physician/APP COVID Response Team
Member, COVID-19 Testing Working Group

Ingraham
Member and Chair, Non-Interventional Spine Search Committee, Spine Center, UNC Hospitals
Member, Virtual Care Transition Committee, UNC Hospitals
Member, Program Evaluation Committee, PM&R
Member, Clinical Competency Committee, PM&R
Member, Space Committee, PM&R

Karvelas
Member, Program Evaluation Committee, PM&R
Member, Non-Interventional Spine Search Committee, Spine Center, UNC Hospitals
Member, Clinical Competency Committee, PM&R
Member, Fixed Term Promotions Committee, UNC Chapel Hill

Rauch
Associate Program Director, PM&R
Facilitator, Journal Club, PM&R
Member, Program Evaluation Committee, PM&R
Member, Education Leadership Committee, PM&R
Member, Rehab Administrative Committee, UNC Hospitals
Chair, Clinical Competency Committee, PM&R
Member, Faculty Welfare Committee, UNC (appointment until 2024)
**Roth**
Faculty Member, Program on Integrative Medicine, PM&R
Departmental Liaison, SOM Well-Being Committee
Member, Wellness Committee, PM&R
Yoga Teacher, UNC-Wide Wellness Events, HR

**Shuping**
Director, Medical Student Education, PM&R
Medical Director, Carolina Concussion Clinic, PM&R
Associate Medical Director, Occupational Medicine, UNC Chapel Hill
Faculty Advisor, UNC SOM PM&R Interest Group, UNC Chapel Hill
Advisor, Medical Student Career Advisor, UNC Chapel Hill
PM&R Career Advisor, UNC Chapel Hill
Member, Academy of Educators, UNC SOM
Member, Clinical Competency Committee, PM&R
Member, Infection Control Committee, UNC Hospitals
Member, Program Evaluation Committee, PM&R
Member, Rehab Administrative Committee, UNC Hospitals
Member, UNC Student Stores Advisory Panel
Director, Mild TBI Conference Planning Committee

**Telhan**
Advisor, Larry Keith Advisory College, UNC Office of the Dean of Student Affairs
Member, Advisory Board for Literature, Medicine & Culture, UNC SOM
Member, Admission Committee, Master’s in Literature, Medicine & Culture, UNC SOM
Member, Course Planning and Curriculum Development Committee, Department of Social Medicine
Member, Interventional Access Committee, UNC Hospitals
Member, Program Evaluation Committee, PM&R
Member, Clinical Competency Committee, PM&R
Member, Passing the Torch, UNC Academy of Educators, UNC SOM
Member, UNC School of Medicine Committee on Admissions
DEI Liaison, UNC Office of Inclusive Excellence
Member, Social Justice Curricular Task Force, UNC SOM

**Than**
Medical Director, Acute Inpatient Rehabilitation Center, UNC Hospitals
Medical Director, UNC-Rex Rehabilitation and Nursing Care Center of Apex
Member, Clinical Competency Committee, PM&R
Member, Program Evaluation Committee, PM&R
Member, Credentials Committee, UNC Hospitals
Member, Utilization Committee, UNC Hospitals
Member, Academy of Educators, UNC SOM
Member, Rehab Administrative Committee, UNC Hospitals
Member, UNC Hospitals Decompression Committee
Member, Hillsborough Hospital Planning Committee
Member, Inpatient Rehabilitation Transition to Hillsborough Planning Committee

**Thompson**
Director, Psychological Services and Neuropsychology Program, PM&R
Co-Chair, Wellness Committee, PM&R
Member, School of Medicine Wellbeing Committee
Member, Program Evaluation Committee, PM&R
Member, Concussion Conference Planning Committee, PM&R

Zinner
Medical Director, Subacute Rehab Services, Rex/UNC
Member, Patient Progression Committee, Rex Hospital
Member, QAPI Committee, RRNCC
Member, Medicare Readmissions Committee, RRNCC
Member, COVID-19 SNF Task Force, RRNCC
Member, Epic LTC Development Committee, RRNCCre
Member, Wellness Committee, UNC Dept PM&R.

Honors
2021 Top Physical Medicine & Rehabilitation Specialist representing Raleigh, NC, in Women In Medicine (Zinner)
2021 Marquis Who’s Who in America, Post-Acute and LTC Medical Professionals from NC (Zinner)
2021 Top Doctors as published in Business North Carolina, December 2021 (Baratta)
2022 Top Physical Medicine and Rehabilitation Specialist representing Raleigh, NC (Zinner)

Published Interviews with Media Outlets

Baratta


“When COVID Doesn’t Go Away.” CDC-AAMC Vaccine Voices interview with reporter Beth Howard. Published online: https://vaccinevoices.org/when-covid-doesnt-go-away/ (August 2021).


“This is life-changing’: Month after hospitalization, Moore Co. man struggles with long-haul COVID.” Televised interview with reporter Michael Perchick. ABC 11 News at 6:00. Also published online: https://abc11.com/long-haul-covid-coronavirus-illness-symptoms/11044572/ (9/24/2021).

“12-year-old getting treatment at UNC has been dealing with COVID effects for more than a year.” Televised interview with reporter Gloria Rodriguez. ABC 11 News at 6:00. Also published online: https://abc11.com/covid-symptoms-long-hauler-covid19-coronavirus/11080295/ (10/4/2021).


“She’s 8 and living with long haul COVID. ‘I can’t just be a kid.’” Charlotte Observer article by reporter Rebecca Torrence. Published in print version and available online: https://www.charlotteobserver.com/news/local/article255382901.html. (11/5/2021)


“Talking to long-haul COVID: How an NC doc and patient fight the mysterious syndrome.” NC Health News magazine interview with reporter Thomas Goldsmith. Published online: https://www.northcarolinahealthnews.org/2022/02/02/talking-to-long-haul-covid-how-an-nc-doc-and-patient-fight-the-mysterious-syndrome/ (2/2/2022)


“‘Good, not great’: Some long Covid patients see their symptoms improve, but full recovery is elusive.” STAT news magazine interview with reporter Elizabeth Cooney. Published online https://www.statnews.com/2022/02/08/long-covid-patients-clinics-symptoms-improve-recovery-elusive/ (2/8/2022).

“UNC clinic offers hope and support for those battling long COVID’s mysterious symptoms.” Raleigh News & Observer article by reporter Martha Quillin. Published in print version and available online: https://www.newsobserver.com/article259053988.html. (3/30/22)

“‘My mind just goes blank’: When ‘brain fog’ comes, patients find that therapy helps.” Raleigh News & Observer article by reporter Martha Quillin. Published in print version and available online: https://www.newsobserver.com/news/local/article259174098.html. (3/30/2022)

“I remain faithful’: Therapists and patients learn that recovery can’t be rushed.” Raleigh News & Observer article by reporter Martha Quillin. Published in print version and available online: https://www.newsobserver.com/news/local/article259333554.html. (3/30/2022)

“UNC Clinic offers Hope and Support for those Battling Long COVID’s Mysterious Symptoms” https://www.newsobserver.com/article259053988.html (3/30/22)


“‘Like you are carrying around extra weight on your body’: UNC treats 1,000th COVID long hauler.” Televised interview with reporter Joe Fisher. WRAL News. Also published online: https://www.wral.com/coronavirus/goldsboro-woman-describes-long-covid-like-you-are-carrying-around-extra-weight-on-your-body/20273213/. (5/9/22)


“Do Vaccines Prevent Long COVID?” The People’s Pharmacy article by Joe Graedon. Published online: https://www.peoplespharmacy.com/articles/do-covid-vaccines-prevent-long-covid. (5/30/22)


Appendix A – Departmental Teaching Summary by Faculty

Rotation Directors

**Baratta**
Stroke Rehabilitation (Director)

**Barton**
Pediatric Rehabilitation (Director)

**Cleveland**
Spinal Cord Injury (Director)

**Filer**
Electrodiagnostic Medicine (Co-Director)

Inpatient Rehabilitation (Co-Director)

**Karvelas**
Electrodiagnostic Medicine (Co-Director)

Rauch
Inpatient Rehabilitation (Co-Director)
Outpatient Clinic Rehabilitation (Director)

Shuping
Electrodiagnostic Medicine (Co-Director)
Outpatient Clinic Rehabilitation (Director)

Telhan
Spine Clinic (Director)

Thananopavarn
Inpatient Rehabilitation (Co-Director)
Subacute Rehabilitation (Co-Director)
Rehabilitation consults

Zinner
APP Education (Co-Director)
Subacute Rehabilitation (Co-Director)


Didactic Block Responsibility

Baratta
Stroke Rehabilitation, 3 weeks
Business, Professionalism & Quality Improvement, 2 weeks

Barton
Pediatric Rehabilitation, 3 weeks

Bartolo
Workshops (Anatomy, PE, US), 12 weeks

Cleveland
Spinal Cord Injury, 6 weeks

Filer
Intro to Rehab, 8 weeks
Bone Joint and Connective Tissue, 3 weeks
Brain Injury, 2 weeks

Hill
Occupational Medicine and Burn, 2 weeks
Research, 2 weeks

Ingraham
Workshops (Anatomy, PE, US), 12 weeks

Karvelas
Workshops (Anatomy, PE, US), 12 weeks

Rauch
Neuro Rehab (MS, Parkinson’s, Guillain Barre), 3 weeks
Orthotics, 2 weeks
Prosthetics, 3 weeks
Case Presentations and Oral Board Reviews, 3 sessions

Shuping
Sports Module, 3 weeks
Modalities Module, 3 weeks

Telhan
Spine and Pain, 4 weeks
Thananopavarn
Geriatric Medicine, 2 weeks
Integrative Medicine, 2 weeks
Cancer and Cardiac Rehab, 2 weeks
Thompson
Physician Wellness & Burnout, 3 weeks

**Lectures Given to UNC PM&R Residents**

**Baratta**
1/6/2022 – Stroke Rehabilitation Medical Perspective
9/23/2021 – Quality and Value in Healthcare
9/20/2021 – Professionalism in Healthcare

**Barnhill**
12/4/22 Research Methods I
12/9/22 Research Methods II

**Barton**

**Cleveland**

**Filer**

**Gaylord**
“Mission and Activities of the Program on Integrative Medicine”
Given to first-year residents on June 16, 2022
Coordinator of Integrative Medicine Lecture Series on April 28 and May 5, 2022.

**Ingraham**

**Karvelas**

**Rauch**
12/16/2021 Oral board review with cases
3/31/2022 Oral board review with cases

**Roth**
09/09/2021 – “Physician Wellness and Burnout”
03/24/2022 – “Tools for Self-Care”
04/28/2022 –“Introduction to Integrative Medicine”

**Shuping**
3/3/2022 – Exertional compartment syndrome
3/3/2022 – Lower Extremity Injury assessment
3/10/2022 – MSK/Sports SAE review

**Telhan**
Mentorship Responsibilities

To UNC PM&R Residents

Baratta
2 PGY-2 (Tompary and Kodsi)
1 PGY-3 (Vijayaraghavan)

Barton
1 PGY-3 (Yeste)

Filer
4 PGY-1’s

Ingraham

Karvelas
1 PGY-4 (Riden)

Rauch

Shuping

Telhan
2 PGY-2’s (Siano and Sharp)

To Others

Alexander
Doctoral Dissertation Research Advisory Committee Member, James McCall, Biomedical Engineering, NCSU

Baratta
Doctoral Dissertation Advisory Committee Member, Sarah Rich, UNC School of Nursing

Duquette

Faurot
Doctoral Dissertation Committee member, Henry Zhang, Epidemiology, UNC Gillings School of Global Public Health
Mentor and Doctoral Dissertation Committee Member for T32 Predoctoral Fellow, Gilson Honvoh
Doctoral Dissertation Committee Member for Christine Callahan, Human Movement Science, “Associations among Perceived Psychological Stress, Mindfulness, and Clinical and Psychological Outcomes in Young Adults with Concussion History”

Mentor for T32 Postdoctoral Fellow, Zachary Kadro
Mentor for T32 Postdoctoral Fellow, Aisha Chilcoat
Co-mentor for T32 Postdoctoral Fellows, Jenni Shafer & Daniel Gallego Pere
Research Mentor for Resident Taylor Riden
Mentor for Visiting Scholar, Jinyoung Park (Now in doctoral program in psychology and neuroscience at Duke University)
Mentor for Physician Assistant students (Capstone papers)

Filer
Mentor for PHD candidate (and F31 Grant advisor, PhD thesis committee) for Noah Rubin (NCSU)
Mentor for MD/PHD candidate (PhD thesis committee) for Robert Hinton PhD

Gaylord
Mentor for T-32 Postdoctoral Fellow Carrie Brintz
Mentor for T-32 Postdoctoral Fellow Jessica Barnhill
Mentor for T-32 Postdoctoral Fellow Christine Lathren
Mentor for T-32 Postdoctoral Fellow Isabel Roth
Program mentor/co-mentor for All six post-doctoral fellows, along with Doug Mann.
Mentor for post-doctoral fellow Dr. Jeffrey Proulx, PhD, Oregon State University on his NIH NCCIH K99/R00 award on Mindfulness to manage diabetes in Native Americans.
Reader for Physician Assistant Student. Jeremy Jones (Reiki capstone paper).
Mentor for Psychiatry Resident, Madison Piotrowski, MD (Research Track – Project: Lifestyle Medicine)
Mentor for Zachary Boggs, 2nd Year Medical Student, on Medical Student Wellness Committee

Roth
Mentor for undergraduate Research Assistant Malik Tiedt
Mentor for visiting medical student Bethany Kavalakatt
Mentor for undergraduate independent study student Leah Peloff
Mentor for MSTAR student Raveena Mata

Shuping
Mentor, 5 different 2-4th year medical students, UNC