

AWARD NUMBER: W81XWH-21-1-0147

TITLE: MOTION: Moving Online Together Investigation of Neurocognition

PRINCIPAL INVESTIGATOR: Linda Chao

CONTRACTING ORGANIZATION: Northern California Institute for Research and Education (NCIRE), San Francisco, CA

REPORT DATE: August 2023

TYPE OF REPORT: Annual

**PREPARED FOR: U.S. Army Medical Research and Development Command
Fort Detrick, MD 21702-5012**

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14. ABSTRACT The goal of this study is to examine a novel, integrative mind-body movement program, Preventing Loss of Independence through Exercise (PLIÉ), with Tai Chi for the ability to improve cognition and enhance brain connectivity in people with mild cognitive impairment (MCI) and subjective memory decline (SMD). The two mind-body interventions will also be compared with an active control, Health and Wellness Education (HWE) in a randomized controlled trial (RCT). Aim 1 will evaluate the effects of PLIÉ and Tai Chi versus HWE, all delivered remotely via tele-health techniques, on the Alzheimer's Disease Assessment Scale - cognitive subscale (ADAS-cog). Aim 2 will evaluate the effects of the three interventions on default mode network (DMN) functional connectivity. Aim 3 will explore the association between changes in functional connectivity with changes in cognition.					
15. SUBJECT TERMS Exercise, mind-body, Alzheimer's disease, mild cognitive impairment, neuroimaging.					
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1. INTRODUCTION:

The goal of this study is to examine a novel, integrative mind-body movement program, Preventing Loss of Independence through Exercise (PLIÉ), with Tai Chi for the ability to improve cognition and enhance brain connectivity in people with mild cognitive impairment (MCI) and subjective memory decline (SMD). The two mind-body interventions will also be compared with an active control, Health and Wellness Education (HWE) in a randomized controlled trial (RCT). Aim 1 will evaluate the effects of PLIÉ and Tai Chi versus HWE, all delivered remotely via tele-health techniques, on the Alzheimer’s Disease Assessment Scale - cognitive subscale (ADAS-cog). Aim 2 will evaluate the effects of the three interventions on default mode network (DMN) functional connectivity. Aim 3 will explore the association between changes in functional connectivity with changes in cognition.

2. KEYWORDS:

Exercise, mind-body Alzheimer’s disease, other dementias, mild cognitive impairment, subjective memory decline, quality of life, neuroimaging.

3. ACCOMPLISHMENTS:

What were the major goals of the project?

<u>Major Task/Milestone</u>	<u>Timeline</u>	<u>Date Completed</u>
Major Task 1: Prepare regulatory documents and research protocol		
<i>Milestone: Local IRB approval at UCSF/SFVAHCS and UCLA</i>	Mos. 1-3	08/09/2021
<i>Milestone: HRPO approval for all protocols</i>	Mos. 1-6	11/12/2021
Major Task 2: Train and coordinate staff across sites		
<i>Milestone: Research staff trained and calibrated</i>	Mos. 3-6	11/30/2021
Subtask: Develop study database and data collection forms	Mos. 4-6	9/30/2021
Major Task 3: Train and coordinate staff across sites		
<i>Milestone: Harmonized neuroimaging measures</i>	Mos. 6-7	4/20/2022
<i>Milestone: Harmonized mind-body interventions and developed HWE control</i>	Mo. 6	2/28/2022
Subtask: Train Tai-Chi instructor on TSH platform	Mo. 7	Feb. 2022
Major Task 4: Participant Recruitment		
Subtask: Initiate and maintain recruitment through clinicaltrials.gov, Alzheimer’s Association TrialMatch; UCSF and UCLA sites/resources	Mos. 6-20	began 1/31/2022
Subtask: Perform VINCI data pulls of veterans in CA with MCI and send recruitment letters	Mos. 6-20	12/06/2021
<i>Milestone: 1st participant consented, screened and enrolled</i>	Mo. 7	2/23/2022

Major Task 5: Assessment and Intervention for Study Cohorts

Subtask 1: Obtain baseline behavioral and imaging data

	<u>Timeline</u>	<u>Date completed</u>	<u>Comments</u>
Cohort 1	Mos. 10-11	May 2022- June 2022	
Cohort 2	Mos. 12-16	July 2022 – Nov. 2022	
Cohort 3	Mos. 17-21	Dec. 2022- April 2023	
Cohort 4	Mos. 23-26	June 2023 – Sept. 2023 (anticipated)	Added 4 th cohort to increase sample size

Subtask 2: Deliver tele-PLIÉ, tele-TCC, and tele-HEW interventions to study participants

	<u>Timeline</u>	<u>Date completed</u>	<u>Comments</u>
Cohort 1	Mos. 11-15	June - Oct 2022	
Cohort 2	Mos. 16-19	Nov. 2022 – Feb. 2023	
Cohort 3	Mos. 21-23	April - June 2023	
Cohort 4	Mos. 26-28	Sept. - Nov. 2023	Added 4 th cohort to increase sample size

Subtask 3: Obtain post-intervention behavioral and imaging data

	<u>Timeline</u>	<u>Date completed</u>	<u>Comments</u>
Cohort 1	Mo. 14-18	Sept. 2022 – Jan. 2023	
Cohort 2	Mo. 19-23	Feb. - June 2023	
Cohort 3	Mo. 23 -	June 2023 (on-going)	
Cohort 4	Mo. 28 -		Anticipated starting in Nov. 2023
<i>Milestone Achieved: Completed tele-PLIE, tele-TTC, and tele-HEW for first, second and third cohorts.</i>		June 22, 2023	Added 4 th cohort to increase sample, anticipate completing intervention Nov. 2023

Subtask 4: Obtain 6-month follow-up behavioral data from study participants

	<u>Timeline</u>	<u>Date completed</u>	<u>Comments</u>
Cohort 1	Mo. 20 -22	Mar. -May 2023	
Cohort 2	Mo. 25 -	Started Aug. 2023	currently on-going
Cohort 3	Mo. 29 -		Anticipate starting Dec 2023
Cohort 4	Mo. 34 -		Anticipated starting May, 2024

Major Task 6: Analyze behavioral data

	<u>Timeline</u>	<u>Date completed</u>
Subtask 1: Quality check data and database	Mos. 12, 18, 24, 30, 36	Data QCs and database maintenance is an ongoing processes

Major Task 7: Analyze neuroimaging data

	<u>Timeline</u>	<u>Date completed</u>
Subtask 1: Quality check data and database	Mos. 12, 18, 24, 30, 36	Data QCs and database maintenance is an ongoing processes

What was accomplished under these goals?

Major activities:

1. Obtained local IRB and HRPO approval for protocols (November 2021)
2. Hired, trained, and coordinated study staff across UCLA and SFVA/NCIRE sites (November, 2021)
3. Developed study database and data collection forms (August, 2021)
4. Harmonized Neuroimaging Measures for the SFVA Siemens Skyra and the UCLA Brain Mapping Center
5. Harmonized study interventions (February, 2022)
6. Initiated recruitment (December, 2021, first participant enrolled in February, 2022)
7. Recruitment to date:
 - a. **323** screen completions out of 994 sign-ups/contacts
 - i. 103 Male/210 Female
 - ii. Mean age: 71.7 ± 12.8
 - iii. Mean education: 17.0 ± 2.2
 - iv. 97 with formal MCI diagnosis, 216 with subjective memory decline
 - b. **162** follow-up screens with MoCA and brief SCID
 - i. 49 Male/113 Female
 - ii. Mean age: 71.2 ± 2.1
 - iii. Mean education: 17.1 ± 2.1
 - iv. 54 with formal MCI diagnosis, 108 with subjective memory decline
 - v. Mean MoCA scores: 25.2 ± 2.9
 - vi. **117/162** had eligible MoCA scores (≤ 26 , >17)
 - c. Randomized **19** subjects in **Cohort 1** to study interventions
 - i. 7 to Moving Together (PLIE); 6 to Tai Chi; 6 to Health and Wellness Education (HWE)
 - ii. 6 Male/13 Female
 - iii. Mean age: 72.7 ± 8.8
 - iv. Mean education: 17.4 ± 2.1
 - v. 10 with formal MCI diagnosis, 9 with subjective memory decline
 - vi. Mean Baseline ADAS-cog score: 12.2 ± 7.3
 - vii. Mean MoCA: 23.2 ± 2.6
 - d. Randomized **18** subjects in **Cohort 2** to study interventions
 - i. 6 to Moving Together (PLIE); 6 to Tai Chi; 6 to Health and Wellness Education (HWE)
 - ii. 8 Male/10 Female
 - iii. Mean age: 73.1 ± 7.9
 - iv. Mean education: 16.9 ± 1.9
 - v. 5 with formal MCI diagnosis, 13 with subjective memory decline
 - vi. Mean Baseline ADAS-cog score: 10.3 ± 7.5
 - vii. Mean Baseline MoCA: 24.4 ± 1.8
 - viii. 2 subjects
 - e. Randomized **18** subjects in **Cohort 3** to study interventions
 - i. 6 to Moving Together (PLIE); 6 to Tai Chi; 6 to Health and Wellness Education (HWE)
 - ii. 5 Male/13 Female
 - iii. Mean age: 70.7 ± 9.0
 - iv. Mean education: 16.7 ± 1.9
 - v. 8 with formal MCI diagnosis, 10 with subjective memory decline
 - vi. Mean Baseline ADAS-cog score: 12.1 ± 7.3
 - vii. Mean Baseline MoCA: 23.7 ± 1.9
 - viii. 2 subject dropped out after randomization (1 from Moving Together, 1 from Tai Chi)
 - f. Recruited **22** subjects for **Cohort 4**
 - i. 2 Male/20 Female
 - ii. Mean age: 71.5 ± 7.5
 - iii. Mean education: 16.9 ± 2.3
 - iv. 3 with formal MCI diagnosis, 19 with subjective memory decline

8. Imaging data analysis:
 - a. Started quality checking and processing the baseline and Cohorts 1 and 2 post-intervention structural imaging data.
 - b. Started quality checking and pre-processing the ASL perfusion data
 - c. Started quality checking and pre-processing the resting state fMRI data
 - v. Mean Baseline MoCA score: 24.0 ± 2.3
 - vi. We are currently acquiring baseline data from Cohort 4 subjects
 - vii. 7 subjects have been randomized thus far
 - viii. We are aiming to start the study interventions in September.

What opportunities for training and professional development has the project provided?

Nothing to report.

How were the results disseminated to communities of interest?

Nothing to report.

What do you plan to do during the next reporting period to accomplish the goals?

- Deliver PLIE, Tai Chi, and Health and Wellness intervention to Cohort 4 participants. We anticipate this final cohort will start the interventions in September and that the interventions will continue through November, 2023.
- Continue to obtain post-intervention data from Cohort 3 participants.
- Obtain 6-month follow-up data from Cohort 2 participants.
- Obtain post-intervention and 6-month follow-up data from Cohort 4 participants. We plan to start collecting 6-month follow-up data in May, 2024.
- We will likely request a NCE to finish data analysis.

4. IMPACT:

What was the impact on the development of the principal discipline(s) of the project?

Nothing to report.

What was the impact on other disciplines?

Nothing to report.

What was the impact on technology transfer?

Nothing to report.

What was the impact on society beyond science and technology?

Nothing to report.

5. CHANGES/PROBLEMS:

The originally proposed sample size was N=80 in 3 cohorts. However, we started the interventions with smaller cohort sizes because we didn't want to lose the who had already been enrolled by making them wait too long between enrollment, baseline assessment, and the start of the intervention. After completing the interventions with 3 cohorts, we only have 49 completers. For this reason, we added a 4th cohort to increase sample size. Currently, Cohort 4 has 22 participants enrolled. If all 22 participants complete the interventions, our final sample size will be N=71.

Actual or anticipated problems or delays and actions or plans to resolve them

Although we had a lot of participants interested in the study, many potential participants ended up being not cognitively impaired enough to meet inclusion criterion (i.e., MoCA scores ≤ 26). Consequently, we started the interventions with smaller cohorts because we didn't want to lose the participants who were enrolled by making them wait too long between enrollment, baseline assessment, and the start of the intervention. After completing 3 cohorts, we only had 49 completers. Therefore, we added a 4th cohort to increase the final sample size. We will likely request at NCE to complete data analysis.

Changes that had a significant impact on expenditures

Even though we added a 4th Cohort, the project is still financially on track with the proposed expenditures because we did not run as many participants in the 3 cohorts as originally anticipated.

Significant changes in use or care of human subjects, vertebrate animals, biohazards, and/or select agents

Significant changes in use or care of human subjects

There are no significant deviations or changes in approved protocols for the use of human subjects. The current IRB approval dates are:
MOTION: Moving Online Together Investigation of Neurocognition (PI: Linda Chao); University of California San Francisco IRB. The protocol was approved on 07/29/2021; the current expiration date is: 06/05/2024.
Protocol [HRPO Assigned Number]: E02185, approved 11/12/2021

Significant changes in use or care of vertebrate animals.

N/A

Significant changes in use of biohazards and/or select agents

N/A

6. PRODUCTS:

- **Publications, conference papers, and presentations**
Journal publications.

Nothing to report.

Books or other non-periodical, one-time publications.

Nothing to report.

Other publications, conference papers, and presentations.

Nothing to report.

- **Website(s) or other Internet site(s)**

Nothing to report.

- **Technologies or techniques** Nothing to report.

- **Inventions, patent applications, and/or licenses**
Nothing to report.

- **Other Products**

A 12-week, 24 session Health and Wellness Education curriculum was developed under this project.

7. PARTICIPANTS & OTHER COLLABORATING ORGANIZATIONS

What individuals have worked on the project?

Name: Linda Chao
Project Role: PI
Researcher Identifier: 0000-0002-8593-2434 (eRA Commons: lindachao)
Nearest person month worked: 1.68 calendar months
Contribution to Project: Dr. Chao has supervised general aspects of the project and worked closely with the study co-investigators to ensure the successful coordination of all aspects of project.

Name: Gary Tarasovsky
Project Role: Database Manager
Researcher Identifier: N/A
Nearest person month worked: 2.9 calendar months
Contribution to Project: Mr. Tarasovsky has constructed a web-based data collection and management system for the MOTION study, and a centralized database that accommodates both direct data entry and electronic upload of summary files from the San Francisco and UCLA study sites. He has also managed the study database system.

Name: Sarah Slain
Project Role: San Francisco Study Coordinator
Researcher Identifier: N/A
Nearest person month worked: 4 calendar months
Contribution to Project: Ms. Slain was responsible for recruitment, screening, and data base entry for Northern California subjects for the MOTION study. She also collected demographic information, scheduled procedures and tests, and reimbursed study participants.

Name: Cyrus Barringer
Project Role: San Francisco Study Coordinator
Researcher Identifier: N/A
Nearest person month worked: 8.9 calendar months
Contribution to Project: Mr. Barringer was responsible for recruitment, screening, and data base entry for Northern California subjects for the MOTION study. He also collected demographic information, scheduled procedures and tests, and reimbursed study participants.

Name: Daniel Cuneo
Project Role: San Francisco Imaging Data Analyst
Researcher Identifier: N/A
Nearest person month worked: 2.3 calendar months
Contribution to Project: Mr. Cuneo has been responsible for facilitating the transfer of imaging data from the UCLA site to the SFVA site for data quality checks and pre-processing. He has also started to perform the pipeline processing of the multimodal MRI data.

Has there been a change in the active other support of the PD/PI(s) or senior/key personnel since the last reporting period?

Name: Linda Chao

- Changes:
1. Dr. Chao was awarded a VA Research Career Scientist award (K6CX002552-05) on 04/01/2022. This award supports 100% of Dr. Chao's VA FTE.
 2. Dr. Chao's SF VA appointment has increased from 7/8th to 8/8th
 3. Dr. Chao's UCSF and the San Francisco VA has increased from 26.5% FTE to 50% FTE. Her combined UCSF and SFVA effort is now 150%.
 3. Dr. Chao's effort on VA Merit award "An Investigation of the Relationship between Toxicant Exposures during Gulf War Deployment and Prodromal Parkinson's Disease" (2I01CX00079805) has been decreased to "as needed."
 4. Dr. Chao is now PI of VA Merit award "Preventing Loss of Independence through Exercise in Community Living Centers (PLIE-CLC)" (1I01HX002764). Her effort on this project as "as needed."
 5. DOD/CDMRP/PRARP grant "Using Multimodal Imaging to Examine the Neural Mechanism of an Integrative Exercise Program in Individuals with Mild Cognitive Impairment" has ended.
 6. DOD/CDMRP/GWIRP grant "Examination of plasma PON1 paroxonase activity and genotype in Gulf War Veterans" has ended.
 7. DOD/CDMRP/GWIRP grant "Incidence of Mild Cognitive Impairment in Gulf War Veterans" has been awarded. Dr. Chao is PI at 1.2 calendar months.
 8. DOD/CDMRP/GWIRP grant "Pilot Test of Apnea and Insomnia Relief for Veterans with Gulf War Illness" has been awarded. Dr. Chao is PI at 1.2 calendar months.
 9. DOD/CDMRP/GWIRP grant "Generational and Family Health in Veterans with Gulf War Illness; Address Longstanding Questions about Effects of Gulf War Service on Birth Outcomes, Reproductive Health, and Health Conditions Affecting Veterans' Spouses and Children" has been awarded. Dr. Chao is co-investigator at 0.3 calendar months.
 10. DOD/CDMRP/GWIRP grant "Enrichment of Data Collection for the Boston Biorepository and Integrative Network for GWI: The Non-Exclusionary Wave (NEW BBRAIN) Cohort" has been awarded. Dr. Chao is co-investigator at 0.3 calendar months.
 11. Effort on DOD/CDMRP/PRARP grant "MOTION: Moving Online Together: Investigation Of Neurocognition" has increased to 1.68 calendar months.

Name: Cynthia Benjamin

- Changes:
1. Effort on NIH/NIA grant "Brain Health Together: A Livestreaming Group-Based Digital Program" has been reduced to 3.4 calendar months.
 2. NIH/NIA grant "A Novel Algorithm to Identify People with Undiagnosed Alzheimer's and Related Dementias" has been awarded. Ms. Benjamin is co-PI at 1.2 calendar months.

Name:	Cynthia Benjamin
Changes:	3. NIH/NIA grant “Extending Independence and Quality of Life for People with Alzheimer’s disease or dementia through Telehealth Program Delivery” has ended
Name:	Deborah Barnes
Changes:	1. Effort on NIH/NIA grant “Identifying and supporting patients with undiagnosed dementia using the HER Risk of Alzheimer’s and Dementia Assessment Rule (eRADAR): a pilot clinical trial” has been reduced to 2.7 calendar months.
Name:	Margaret Chesney
Changes:	1. Dr. Chesney’s effort on NIH/NIA grant “Extending Independence and Quality of Life for People with Alzheimer’s disease or dementia through Telehealth Program Delivery” has ended.
Name:	Wolf Mehling
Changes:	1. Dr. Mehling’s effort on NIH/NIA grant “Extending Independence and Quality of Life for People with Alzheimer’s Disease or Dementia Through Telehealth Program Delivery” has been reduced to 0.3 calendar months.
Name:	An Vu
Changes:	1. Dr. Vu’s effort on VA grant (CX002322) “Neural and cognitive consequences of COVID-19 survival” has ended. 2. Dr. Vu’s effort on UCSF Resource Evaluation and Allocation Committee grant “Evaluation of spin-echo based gSLIDER for sub-millimeter, mesoscale fMRI at 3T” has been ended. 3. NIH/NIMH grant “Can neural network instability in schizophrenia be improved with a very low carbohydrate ketogenic diet?” has been awarded. Dr. Vu is co-investigator at 0.24 calendar months. 4. NIH/NIMH grant “Investigating Fear System Myelination in PTSD using in vivo and post mortem data” has been awarded. Dr. Vu is co-investigator at 0.9 calendar months.

What other organizations were involved as partners?

Name: Helen Lavretsky
Organization Name: University of California, Los Angeles
Project Role: Site PI
Researcher Identifier: 0000-0001-9990-5085
Nearest person month worked: 1.6 calendar months
Contribution to Project: Dr. Lavretsky has supervised all general aspects of the project at the UCLA site, including monitoring and guiding subject recruitment and assessment.

Name: Katherine Narr
Organization Name: University of California, Los Angeles
Project Role: Co-Investigator
Researcher Identifier: 0000-0002-9396-7936
Nearest person month worked: 1.2 calendar months
Contribution to Project: Dr. Narr has trained and supervised the UCLA staff on imaging acquisition and data transfer to the SFVA.

Name: Brandon Ton
Organization Name: University of California, Los Angeles
Project Role: Research Associate
Researcher Identifier: N/A
Nearest person month worked: 1.2 calendar months
Contribution to Project: Mr. Ton has acquired the imaging data from MOTION participants at the UCLA site.

Name: Kate Hollister
Organization Name: University of California, Los Angeles
Project Role: Tai Chi instructor
Researcher Identifier: N/A
Nearest person month worked: 1.2 calendar months
Contribution to Project: Ms. Hollister taught the online Tai Chi Chih intervention to MOTION participants.

Name: Cynthia Benjamin
Organization Name: Together Senior Health, Inc.
Project Role: Site PI
Researcher Identifier: N/A
Nearest person month worked: 0.1 calendar months
Contribution to Project: Ms. Benjamin has provided supervision of staff delivering the online PLIÉ intervention.

Name:	Courtney Sheen
Organization Name:	University of California, Los Angeles
Project Role:	Project coordinator, SRA II
Researcher Identifier:	N/A
Nearest person month worked:	9.0
Contribution to Project:	Ms. Sheen has been responsible for recruitment, screening, and data base entry for Southern California subjects for the MOTION study. She has collected demographic information, schedule the different procedures and tests, and has been responsible for reimbursement of study participants.

Name:	Chris Stribling
Organization Name:	Together Senior Health, Inc.
Project Role:	Instructor
Researcher Identifier:	N/A
Nearest person month worked:	1.4
Contribution to Project:	Mr. Stribling has provided supervision of staff delivering the online PLIE intervention.

8. SPECIAL REPORTING REQUIREMENTS: N/A

9. APPENDICES: N/A

**PHS OTHER SUPPORT
For All Application Types – DO NOT SUBMIT UNLESS REQUESTED**

*Name of Individual: Chao, Linda
Commons ID: lindachao

Other Support – Project/Proposal

Dr. Chao has a joint appointment with the San Francisco VA (100% effort) and the University of California San Francisco (50% effort).

VA Appointment (100% FTE or 12 CM)

*Title: VA Research Career Scientist Award

*Major Goals: In recognition of the overall contributions and professional commitment to the VA, the VA Office of Research and Development supports a career track for non- clinician scientists through this award mechanism.

*Status of Support: ACTIVE

Project Number: 1 IK6 CX002522-01

Name of PD/PI: Chao, Linda

*Source of Support: Department of Veterans Affairs/CSR&D

*Primary Place of Performance: San Francisco VA Health Care System

Project/Proposal Start and End Date: (MM/YYYY) (if available): 04/2022 – 03/2027

* Total Award Amount (including Indirect Costs):

* ~~60~~ Person Months (Calendar/Academic/Summer) period.

Year (YYYY)	Person Months (##.##)
2. 2023	12 calendar
3. 2024	12 calendar
4. 2025	12 calendar
5. 2026	12 calendar

*Title: An Investigation of the Relationship between Toxicant Exposures during Gulf War Deployment and prodromal Parkinson’s disease

*Major Goals: The goal of this study is to examine the long-term consequences of Gulf War Illness (GWI) in the context of aging and Parkinson’s disease.

*Status of Support: ACTIVE

Project Number: 2IO1CX000798

Name of PD/PI: Chao, Linda

*Source of Support: Department of Veterans Affairs/CSR&D

*Primary Place of Performance: SFVAHCS

OMB No. 0925-0001 and 0925-0002 (Rev. 10/2021 Approved Through 09/30/2024)

Name of Individual: Chao, Linda
 Commons ID: linda.chao

Project/Proposal Start and End Date: (MM/YYYY) (if available): 01/2019 – 12/2024

* Total Award Amount (including Indirect Costs): \$1,374,645

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
5. 2023	As needed
6. 2024	As needed

*Title: Loss of Independence through Exercise in Community Living Centers (PLIE-CLC)

*Major Goals: The purpose of this study is to adapt and pilot-test the Preventing Loss of Independence through Exercise (PLIE) program for Community Living Centers.

*Status of Support: ACTIVE

Project Number: 1I01HX002764

Name of PD/PI: Chao, Linda

*Source of Support: Department of Veterans Affairs/HSR&D

*Primary Place of Performance: SFVAHCS

Project/Proposal Start and End Date: (MM/YYYY) (if available): 06/2020 – 12/2023

* Total Award Amount (including Indirect Costs): \$999,199

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2. 2023	As needed

*Note: Dr. Chao became PI of this project after the original PI separated from SFVAHCS on 04/01/2022

UCSF Appointment (50% FTE or 6 CM)

*Title: Incidence of Mild Cognitive impairment in Gulf War Veterans

*Major Goals: The goal of this project is to examine the prevalence of mild cognitive impairment (MCI) in deployed Gulf War (GW) veterans via retrospective data analysis of deidentified neuropsychological and neuroimaging data from GW veterans. We will also investigate whether GW Veterans with MCI have pathology related to Alzheimer's Disease (AD) by examining levels of amyloid- β and tau in the plasma.

*Status of Support: ACTIVE

Project Number: W81XWH-21-1-0656

Name of PD/PI: Chao, Linda

*Source of Support: DOD/CDMRP/GWIRP

OMB No. 0925-0001 and 0925-0002 (Rev. 10/2021 Approved Through 09/30/2024)

Name of Individual: Chao, Linda
 Commons ID: linda.chao

*Primary Place of Performance: NCIRE, SFVAHCS

Project/Proposal Start and End Date: (MM/YYYY) (if available): 07/2021 – 07/2024

* Total Award Amount (including Indirect Costs): \$598,224

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
3. 2023	1.44 calendar
4. 2024	1.44 calendar

*Title: Pilot Test of Apnea and Insomnia Relief for Veterans with Gulf War Illness

*Major Goals: The goals of this project are to: (1) estimate the effect size of Apnea and Insomnia Relief (AIR) on the co-primary outcomes of Gulf War Illness (GWI) symptom severity and VSF-36 mental and physical component scores in GW veterans with comorbid GWI, obstructive sleep apnea (OSA), and insomnia. (2) Estimate the effect size of AIR on insomnia severity and positive airway pressure (PAP) adherence in GW veterans with comorbid GWI, OSA, and insomnia. (3) Examine the maintenance of AIR treatment effects at 3 months.

*Status of Support: ACTIVE

Project Number: W81XWH-21-1-0758

Name of PD/PI: Chao, Linda

*Source of Support: DOD/CDMRP/GWIRP

*Primary Place of Performance: NCIRE, SFVAHCS

Project/Proposal Start and End Date: (MM/YYYY) (if available): 09/2021 – 08/2024

* Total Award Amount (including Indirect Costs): \$1,056,783

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
3. 2023	1.44 calendar
4. 2024	1.44 calendar

*Title: MOTION: Moving Online Together Investigation of Neurocognition

*Major Goals The goals of this project are to (1) evaluate the effects of tele-PLIÉ and tele-Tai Chi Chih (TCC) versus the tele-Health and Wellness Education (HWE) control on the Alzheimer's Disease Assessment Scale - cognitive subscale (ADAS-cog). (2) evaluate the effects of tele-PLIÉ and tele-TCC versus tele-HWE on Default Mode Network (DMN) functional connectivity. (3) explore the association between changes in DMN connectivity with changes in ADAS-cog.

*Status of Support: ACTIVE

Project Number: W81XWH-21-1-0147

Name of PD/PI: Chao, Linda

OMB No. 0925-0001 and 0925-0002 (Rev. 10/2021 Approved Through 09/30/2024)

Name of Individual: Chao, Linda
 Commons ID: linda.chao

*Source of Support: DOD/CDMRP/PRARP

*Primary Place of Performance: SFVAHCS/NCIRE

Project/Proposal Start and End Date: (MM/YYYY) (if available): 08/2021 – 07/2024

* Total Award Amount (including Indirect Costs): \$2,043,516

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
3. 2023	1.68 calendar
4. 2024	1.68 calendar

*Title: Individual Variation in Effects of Traumatic Stress on Gray Matter Myelin

*Major Goals: The project will test the hypothesis that maladaptive myelin development in response to traumatic stress is a critical mechanism in the brain's response to trauma. The project involves both animal and human subjects and helps fill key gaps in our understanding of how trauma adversely impacts the brain.

*Status of Support: ACTIVE

Project Number: R01MH115020

Name of PD/PI: Neylan, Thomas & Kaufer, Daniela

*Source of Support: NIH/NIMH

*Primary Place of Performance: SFVAHCS/NCIRE

Project/Proposal Start and End Date: (MM/YYYY) (if available): 01/2019 – 10/2024 (NCE)

* Total Award Amount (including Indirect Costs): \$2,455,992

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
5. 2023	1.44 calendar
6. 2024	1.08 calendar

*Title: New Enrichment of Data Collection for the Boston Biorepository and Integrative Network for GWI: The Non-Exclusionary Wave (NEW BBRAIN) Cohort

*Major Goals: This study seeks to add a third group of 200 NEW BBRAIN veterans with Gulf War Illness (GWI) and other comorbid chronic conditions to the Boston Biorepository, Recruitment and Innovative Network (BBRAIN) for GWI consortia. This will allow for a better understanding of other chronic conditions that veterans with GWI are also acquiring and will help aid the development of simple diagnostic tests for GWI that are relevant to all GW veterans not just those with no other chronic conditions.

*Status of Support: ACTIVE

Project Number: W81XWH-22-1-0398

OMB No. 0925-0001 and 0925-0002 (Rev. 10/2021 Approved Through 09/30/2024)

Name of Individual: Chao, Linda
 Commons ID: linda.chao

Name of PD/PI: Sullivan, Kimberly

*Source of Support: DOD/CDMRP/GWIRP

*Primary Place of Performance: Boston University Medical Campus

Project/Proposal Start and End Date: (MM/YYYY) (if available): 09/2022 – 08/2024

* Total Award Amount (including Indirect Costs): \$1,238,580

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2. 2024	0.24 calendar

*Title: Generational and Family Health in Veterans with Gulf War Illness: Addressing Longstanding Questions About Effects of Gulf War Service on Birth Outcomes, Reproductive Health, and Health Conditions Affecting Veterans’ Spouses and Children

*Major Goals: This study will evaluate the reproductive health of Gulf War (WG) Veterans and the subsequent health and development of their children. Aim 1 will determine the proportion of GW veterans (maternal or paternal veteran) who experienced challenges with fertility and whose pregnancies resulted in a miscarriage, stillbirth or preterm delivery. Aim 2 will establish a cohort of children of GW Veterans and characterize the overall health of the veterans’ children at birth, childhood and current. Aim 3 will collect blood samples from 100 parent/child pairs to bank for future epigenetic analyses.

*Status of Support: ACTIVE

Project Number: W81XWH-22-1-0320

Name of PD/PI: Janulewicz Lloyd, Patricia

*Source of Support: DOD/CDMRP/GWIRP

*Primary Place of Performance: Boston University Medical Campus

Project/Proposal Start and End Date: (MM/YYYY) (if available): 09/2022 – 08/2025

* Total Award Amount (including Indirect Costs): \$600,000

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
3. 2024	0.12 calendar
4. 2025	0.12 calendar

OMB No. 0925-0001 and 0925-0002 (Rev. 10/2021 Approved Through 09/30/2024)

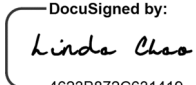

Name of Individual: Chao, Linda
Commons ID: linda.chao

IN-KIND

None

***Overlap** (summarized for each individual): There is no scientific or budgetary overlap.

I, Linda Chao, certify that the statements herein are true, complete and accurate to the best of my knowledge, and accept the obligation to comply with Public Health Services terms and conditions if a grant is awarded as a result of this application. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties.

*Signature: 
Date: 

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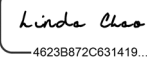
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**SUPPORT
LAVRETSKY, HELEN**

Current

Title: Moving Online Together: Investigation of Neuro-cognition

PI: Linda Chao

Time Commitments: 0.60 CM

Supporting Agency: DOD, UCSF, 20210106

Address:

4150 Clement Street, 151NC

San Francisco, CA 94121

Contracting/Grants Officer:

Performance Period: 09/01/21- 08/31/24

Level of funding: \$736,040

Project Goals: To evaluate the effects of PLIE mind-body intervention on brain and cognition in older adults with MCI.

Specific Aims: The study aims to understand brain and cognitive changes in older adults with mild cognitive impairment engaged in mind-body intervention.

Overlap: None

Title: Neurocognitive and Neuroimaging Biomarkers: Predicting Progression Towards Dementia in Late-life Depression

PI: Helen Lavretsky

Time Commitments: 1.20 CM

Supporting Agency: NIH/NIMH, R01MH11498

Address:

9000 Rockville Pike

Bethesda, MD 20892

Contracting/Grants Officer: Laura Marie Rowland

Performance Period: 09/18/17-7/31/24

Level of funding: \$1,752,948

Project Goals: To investigate biomarkers of response in late life depression in the OPTIMUM study

Specific Aims: The study aims to examine changes in neurocognitive and neuroimaging markers predicting cognitive decline in treatment resistant major depression in older adults.

Overlap: None

RECENTLY COMPLETED RESEARCH (within the last five years)

Title: Mentoring and Research in Translational Neuroscience of Integrative Medicine

PI: Helen Lavretsky

Time Commitments: 6.00 CM

Supporting Agency: NIH/NCCIH, K24 AT009198

Address:

9000 Rockville Pike

Bethesda, MD 20892

Contracting/Grants Officer: Inna Belfer

Performance Period: 09/1/16-8/31/22

Level of funding: \$949,685

Project Goals: To provide training to future clinical researchers in translational neuroscience of integrative medicine

Specific Aims: The main aims of this program will be: 1: Testing the health benefits of mind-body interventions; 2: Applying innovative technologies to test the neuroplastic and genomic mechanisms of action of integrative medicine therapies; and 3: Developing the pipeline of future researchers of CIM.

Overlap: None

Title: Brain Connectivity and Response to Tai Chi in Geriatric Depression

PI: Helen Lavretsky

Time Commitments: 1.20 CM

Supporting Agency: NIH/NCCIH, R01AT008383

Address:

9000 Rockville Pike
Bethesda, MD 20892

Contracting/Grants Officer: Inna Belfer

Performance Period: 04/1/15-3/31/21

Level of funding: \$3,716,071

Project Goals: To evaluate the efficacy and biomarkers of response to Tai Chi used to improve clinical and cognitive outcomes of geriatric depression

Specific Aims: The proposed randomized trial aims to investigate neural mechanisms of brain connectivity when comparing response to TCC to stretching exercise or to health and wellness education classes using fMRI biomarkers of emotional regulation and cognition.

Overlap: None

Title: Brain Connectivity and Response to Tai Chi in Geriatric Depression

PI: Helen Lavretsky

Time Commitments: 0.60 CM

Supporting Agency: NIH/NIA, R01AT008383 Supplement

Address:

9000 Rockville Pike
Bethesda, MD 20892

Contracting/Grants Officer: Inna Belfer

Performance Period: 04/1/15-3/31/21

Level of funding: \$389,997

Project Goals: Administrative supplement to address prevention of cognitive decline

Specific Aims: The study aims to understand changes in neural connectivity with Tai Chi vs Health education added to standard antidepressants in older adults with major depression.

Overlap: None

Title: Optimizing Outcomes in Treatment Resistant Late Life Depression

PI: Eric Lenze

Time Commitments: 1.80 CM

Supporting Agency: PCORI, the Washington University, WU-17-202-MOD-1

Address:

One Brookings Drive
Campus Box 1054
St. Louis, MO 63130

Contracting/Grants Officer: Connie Motoki

Performance Period: 10/01/2016-09/30/21

Level of funding: \$1,847,822

Project Goals: Administrative supplement to address prevention of cognitive decline

Specific Aims: This study aims to compare effectiveness of augmentation vs switching treatment strategies in older adults with treatment resistant major depression.

Overlap: None

Title: Reducing Risk for Alzheimer's disease in High Risk Women through Yogic Meditation Training

PI: Helen Lavretsky

Time Commitments: 1.20 CM

Supporting Agency: ARPF, 20182170

Address:

ARPF
PO Box 30783
Tucson, AZ 85751

Contracting/Grants Officer: Dharma Singh Khalsa

Performance Period: 12/01/17-12/31/21

Level of funding: \$720,472

Project Goals: The use of yoga and meditation versus memory training in women with cardiovascular risk

factors and subjective memory complaints.

Specific Aims: The study aims to establish changes in neuroimaging and inflammatory biomarkers in women at risk for Alzheimer's disease.

Overlap: None

Title: Genetic factors of bone loss in older adults taking antidepressants

PI: Timothy Peterson

Time Commitments: 0.60 CM

Supporting Agency: NIH/NIAMS, 1R01AR073017

Address:

9000 Rockville Pike

Bethesda, MD 20892

Contracting/Grants Officer: Faye Chen

Performance Period: 07/01/18-6/30/22

Level of funding: \$76,209

Project Goals: Examines changes in bone density with antidepressant treatment in older adults

Specific Aims: The study aims to study genetic and metabolic biomarkers associated with antidepressant treatment in older adults.

Overlap: None

Title: Mind-Body Intervention to reduce symptoms among people aging with HIV

PI: Gladys Ibanez

Time Commitments: 0.36 CM

Supporting Agency: NIH/NCCIH, 1R34AT009966

Address:

9000 Rockville Pike

Bethesda, MD 20892

Contracting/Grants Officer: Lanay Marie Mudd

Performance Period: 5/1/18-4/30/21

Level of funding: \$250,000

Project Goals: To develop pilot data documenting effects of Tai Chi-based intervention on mood in older adults with HIV

Specific Aims: The study aims to evaluate feasibility of Qi Gong intervention to reduce stress in older adults with HIV.

Overlap: None

Title: 2018 International Congress on Integrative Medicine and Health

PI: Helen Lavretsky

Time Commitments: 0.60 CM

Supporting Agency: NIH/NCCIH, R13AT009948

Address:

9000 Rockville Pike

Bethesda, MD 20892

Contracting/Grants Officer: Lanay Marie Mudd

Performance Period: 3/1/2018 - 2/28/2019

Level of funding: \$29,700

Project Goals: A Conference grant that funded mentoring and training activities of the Congress

Specific Aims: This educational grant supported 2018 International Congress of Integrative Medicine in Baltimore, MD

Overlap: None

Title: Brain Aging and Treatment Response in Geriatric Depression

PI: Helen Lavretsky

Time Commitments: 1.20 CM

Supporting Agency: NIH/NIMH. R01MH097892

Address:

9000 Rockville Pike

Bethesda, MD 20892

Contracting/Grants Officer: Jovier Evans

Performance Period: 4/16/2013 - 2/28/2019

Level of funding: \$3,476,886

Project Goals: To evaluate the efficacy of memantine augmentation of escitalopram to improve clinical and cognitive outcomes of geriatric depression

Specific Aims: This grant aimed to study biomarkers of treatment response in older adults with depression and subjects cognitive complaints treated with escitalopram and memantine or placebo.

Overlap: None

Title: Double-blind Placebo- controlled Trial of Levomilnacipran in Geriatric Depression

PI: Helen Lavretsky

Time Commitments: 1.20 CM

Supporting Agency: Forest Laboratories, Inc., LVM-IT-02

Address:

Harborside Financial Center, Plaza V

Jersey City, NJ 07311

Contracting/Grants Officer: Amy Mazikewich

Performance Period: 12/16/2015 -12/31/2018

Level of funding: \$637,862

Project Goals: To investigate the efficacy of levomilnacipran compared to placebo in geriatric depression

Specific Aims: This study aimed to evaluate brain changes with response to levomilnacipran or placebo in older adults with depression.

Overlap: None

Title: Memory Training Versus Yogic Meditation Training in Older Adults with Mild Cognitive Impairment

PI: Helen Lavretsky

Time Commitments: 1.20 CM

Supporting Agency: ARPF, 20130607

Address:

ARPF

PO Box 30783

Tucson, AZ 85751

Contracting/Grants Officer: Dharma Singh Khalsa

Performance Period: 7/1/2013 - 6/30/2016

Level of funding: \$153,144

Project Goals: To investigate the effects of yoga compared to cognitive decline in older adults

Specific Aims: This study aimed to compare changes in cognition and brain in older adults with mild cognitive impairment randomized to yoga or memory training.

Overlap: None

Title: Double Blind Comparison of Vilazodone to Paroxetine in Geriatric Depression

PI: Helen Lavretsky

Time Commitments: 1.20 CM

Supporting Agency: Forest Laboratories, Inc., LVM-IT-02

Address:

Harborside Financial Center, Plaza V

Jersey City, NJ 07311

Contracting/Grants Officer: Miles McLennan

Performance Period: 6/26/2012 - 6/30/2016

Level of funding: \$281,957

Project Goals: To evaluate the effect of vilazodone vs placebo on outcomes in geriatric depression

Specific Aims: this study compared the efficacy of vilazodone to paroxetine in geriatric depression.

Overlap: None

PI Certification

I, PD/PI or other senior/key personnel, certify that the statements herein are true, complete and accurate to the best of my knowledge, and accept the obligation to comply with Public Health Services terms and conditions if a grant is awarded because of this application. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties.

DocuSigned by:

Helen Lawretsky

663CB52519BB4FA...

Signature

30-Aug-2023 | 12:38 PDT

Date

Name: Cynthia Benjamin
Commons ID: **CBENJAMIN0001**

Other Support – Project/Proposal

ACTIVE

Title: A Novel Algorithm to Identify People with Undiagnosed Alzheimer’s and Related Dementias

Major Goals: The primary goal of this Phase II Small Business Innovation Research grant is test, refine, and bring to market a unique algorithm that will use electronic health data to support earlier identification of people living with undiagnosed ADRD.

*Status of Support: Pending

Project Number: R44AG082605

Name of PD/PI: Benjamin/Barnes

*Source of Support: National Institutes of Health / National Institute on Aging

*Primary Place of Performance: RH Studio2 OpCo 22, dba Together Senior Health, Inc.

Project/Proposal Start and End Date: (MM/YYYY) (if available): 04/01/2023 - 03/31/2025

* Total Award Amount (including Indirect Costs):

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2023	1.2 calendar
2024	1.2 calendar

Title: Brain Health Together: A Live-Streaming Group-Based Digital Program

Major Goals: The primary goal of this Phase II Small Business Innovation Research grant is to expand TOGETHER’s digital platform by integrating the successful Moving Together program with dementia risk reduction strategies to create a comprehensive online program for people with mild cognitive impairment called Brain Health Together.

*Status of Support: Active

Project Number: R44AG074727

Name of PD/PI: Benjamin/Barnes

*Source of Support: National Institutes of Health / National Institute on Aging

*Primary Place of Performance: University of California, San Francisco

Project/Proposal Start and End Date: (MM/YYYY) (if available): 09/30/2021 – 05/31/2023

Name of Individual: Cynthia Louise Benjamin
Commons ID: CBENJAMIN0001

* Total Award Amount (including Indirect Costs)

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
3. 2023	3.4 calendar

***Title: MOTION: Moving Online Together Investigation Of Neurocognition**

Major Goals: Aim 1 will determine whether tele-PLIÉ and tele-Tai Chi improve global cognitive functional connectivity within the default mode network (DMN) compared to education control. Aim 2 will explore the effects of tele-PLIÉ and tele-Tai Chi on secondary outcome measures. Aim 3 will explore the relationship between changes in the behavioral measures with functional connectivity changes in intrinsic brain networks.

Status of Support: Active

Project Number: AZ200029

Name of PD/PI: Dr. Linda Chao

*Source of Support: DOD, CDMRP, PRARP

*Primary Place of Performance: University of California, San Francisco (UCSF)

Project/Proposal Start and End Date: 8/1/2021 - 7/31/2024

*Total Award Amount (including Indirect Costs):

*Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
3. 2024	0.6 calendar

IN-KIND: None

***Overlap** (summarized for each individual):

Overlap: There is no budgetary overlap. There is scientific overlap in the general sense that the all 3 studies listed will use the same digital health platform from Together Senior Health to deliver a version of the PLIÉ intervention in a different population, ie., for people with mild cognitive impairment.

Name of Individual: Cynthia Louise Benjamin
Commons ID: CBENJAMIN0001

I, PD/PI or other senior/key personnel, certify that the statements herein are true, complete and accurate to the best of my knowledge, and accept the obligation to comply with Public Health Services terms and conditions if a grant is awarded as a result of this application. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties.

*Signature:



Cynthia L. Benjamin

Date:

Aug. 7, 2023

*Name of Individual: Mehling, Wolf
Commons ID: Mehling

Other Support – Project/Proposal

ACTIVE

*Title: UCSF Core Center for Patient-centric Mechanistic Phenotyping in Chronic Low Back Pain (UCSF REACH)

Major Goals: The major goal of this project is to define chronic low back pain (cLBP) phenotypes and pain mechanisms that can lead to effective, personalized treatments for patients across the population.

*Status of Support: Active

Project Number: 1U19AR076737

Name of PD/PI: Lotz, J.

*Source of Support: NIH/NIAMS

*Primary Place of Performance: University of California, San Francisco

Project/Proposal Start and End Date: (MM/YYYY) (if available): 09/2019-05/2024

* Total Award Amount (including Indirect Costs):

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
4. 2023	3.6 calendar
5. 2024	3.0 calendar

*Title: Feasibility Clinical Trial of Integrated Mind-Body Therapy for Chronic Low Back Pain

Major Goals: In order to optimize mind-body approaches to cLBP and prepare for a larger trial, we will develop and test feasibility of a mind-body therapy that integrates MBSR, CBT and mindful interoceptive bodily awareness, refine and test a fMRI-based pain attention task and mobile technology for key outcomes and compliance.

*Status of Support: Active

Project Number: R34 AT010921-03

Name of PD/PI: Mehling, W., Hecht, F.

*Source of Support: NIH/NCCIH

*Primary Place of Performance: University of California, San Francisco

Project/Proposal Start and End Date: (MM/YYYY) (if available): 12/2020 – 11/2023

* Total Award Amount (including Indirect Costs):

* Person Months (Calendar/Academic/Summer) per budget period.

Name of Individual: Mehling, Wolf
Commons ID: Mehling

Year (YYYY)	Person Months (##.##)
3. 2023	2.4 calendar

*Title: MOTION: Moving Online Together, Investigation Of Neurocognition

Major Goals: (1) To evaluate the effects of tele-PLIÉ and tele-Tai Chi Chih (TCC) versus the tele-Health and Wellness Education (HWE) control on the Alzheimer’s Disease Assessment Scale - cognitive subscale (ADAS-cog). (2) To evaluate the effects of tele-PLIÉ and tele-TCC versus tele-HWE on Default Mode Network (DMN) functional connectivity. (3) To explore the association between changes in DMN connectivity with changes in ADAS-cog.

*Status of Support: Active

Project Number: AZ20029

Name of PD/PI: Chao, L.

*Source of Support: Department of Defense/CDMRP/PRARP

*Primary Place of Performance: University of California, San Francisco

Project/Proposal Start and End Date: (MM/YYYY) (if available): 08/2022 – 07/2024

* Total Award Amount (including Indirect Costs):

* Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2. 2024	0.6 calendar

PENDING: None.

***Overlap** (summarized for each individual): None

I, PD/PI or other senior/key personnel, certify that the statements herein are true, complete and accurate to the best of my knowledge, and accept the obligation to comply with Public Health Services terms and conditions if a grant is awarded as a result of this application. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties.

*Signature: 

Mehling, Wolf, MD

Name of Individual: Mehling, Wolf
Commons ID: Mehling

Date: 8/8/2023

-*Name of Individual: Chesney, Margaret
Commons ID: ChesneyM

Other Support – Project/Proposal

ACTIVE

*Title: MOTION: Moving Online Together, Investigation Of Neurocognition

Major Goals: (1) To evaluate the effects of tele-PLIÉ and tele-Tai Chi Chih (TCC) versus the tele-Health and Wellness Education (HWE) control on the Alzheimer’s Disease Assessment Scale - cognitive subscale (ADAS-cog). (2) To evaluate the effects of tele-PLIÉ and tele-TCC versus tele-HWE on Default Mode Network (DMN) functional connectivity. (3) To explore the association between changes in DMN connectivity with changes in ADAS-cog.

*Status of Support: Active

Project Number: A138673

Name of PD/PI: Chao, L.

*Source of Support: Department of Defense/CDMRP/PRARP

*Primary Place of Performance: University of California, San Francisco

Project/Proposal Start and End Date: (MM/YYYY) (if available): 08/2022 – 07/2024

* Total Award Amount (including Indirect Costs):

* Person Months (Calendar/Academic/Summer) per budget period

Year (YYYY)	Person Months (##.##)
4. 2024	0.6 calendar

*Title: Preventing Loss of Independence through Exercise in Community Living Centers (PLIE-CLC)

Major Goals: Implementing the core elements of the movement program, Preventing Loss of Independence through Exercise, to extend quality of life for veterans living in Veteran Administration Community Living Centers.

*Status of Support: Active

Project Number: 1101HX002764

Name of PD/PI: Chao, L.

*Source of Support: VA

*Primary Place of Performance: University of California, San Francisco

Project/Proposal Start and End Date: (MM/YYYY) (if available): 06/2020 – 12/2023

*Total Award Amount (including Indirect Costs):

*Person Months (Calendar/Academic/Summer) per budget period.

Name of Individual: Chesney, Margaret
Commons ID: ChesneyM

Year (YYYY)	Person Months (##.##)
4. 2024	0.6 calendar

PENDING: N/A

*Overlap (summarized for each individual): None

I, PD/PI or other senior/key personnel, certify that the statements herein are true, complete and accurate to the best of my knowledge, and accept the obligation to comply with Public Health Services terms and conditions if a grant is awarded as a result of this application. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties.

*Signature  2E23C87C1723483...

Margaret Chesney, PhD

Date: 8/8/2023

Name of Individual: Vu, An Ph.D.

Commons ID: jvujvu

Positions/Scientific Appointments

2019 - present Assistant Adjunct Professor, Department of Radiology, University of California, San Francisco

2016 - present Physicist, Department of Radiology, Veteran Affairs, San Francisco

OTHER SUPPORT

Dr. Vu has a joint appointment with the San Francisco VA (50% effort) and the University of California San Francisco (50% effort).

VA Appointment (50% FTE or 6 CM)

CURRENT

Title: Examination of mu opioid mediated pain vulnerability in combat mild Traumatic Brain Injury.

Major Goals: The goal of this study is to examine how opioids mediate pain vulnerability in veterans with combat related mild Traumatic Brain Injury.

Specific Aims: Guided by strong preliminary data the central hypothesis will be tested by pursuing two specific aims: 1) To examine the complementary impact of mTBI and chronic pain on the integrity of pain modulatory systems; 2) To distinguish the complementary impact of mTBI and chronic pain on the capability of pain modulatory systems.

Status of Support: Active

Project Number: CX001652

Name of PD/PI: Strigo

Source of Support: Department of Veterans Affairs, VA Merit

Primary Place of Performance: San Francisco VA Health Care System

Project/Proposal Start and End Date: 10/01/2018 - 09/30/2023 (NCE)

Total Award Amount (including Indirect Costs):

Person Months (Calendar/Academic/Summer) per budget period:

Year (YYYY)	Person Months
1. 2019	0.75 CM
2. 2020	0.75 CM
3. 2021	0.75 CM
4. 2022	0.75 CM
5. 2023	0.75 CM

Overlap: * Dr. Vu's Salary and effort support contained within VA Physicist duties.

Title: An Investigation of the Relationship between Toxicant Exposures during Gulf War Deployment and prodromal Parkinson's disease.

Major Goals: The goal of this study is to examine the long-term consequences of Gulf War Illness (GWI) in the context of aging and PD.

Specific Aims: We propose three specific aims that will: (1) evaluate GW veterans using the International Parkinson and Movement Disorder Society (MDS) research criteria for prodromal PD;14 (2) examine the association between the veterans' self-reported frequency of exposures to GW deployment- related chemicals and 7 Tesla measures of iron and neuromelanin and the veterans' probability of prodromal PD according to the

Name of Individual: Vu, An Ph.D.

Commons ID: jvujvu

MDS research criteria; and (3) compare 3 Tesla measures of free water in the substantia nigra and scores from various NMS scales from the Parkinson's Progression Markers Initiative (PPMI)15 dataset in GW veterans with age- and gender-matched healthy controls, PD patients, and subjects with prodromal PD from the PPMI cohort.

Status of Support: Active

Project Number: CX000798

Name of PD/PI: Chao

Source of Support: Department of Veterans Affairs, VA Merit (Clinical Science Res. & Development)

Primary Place of Performance: San Francisco VA Health Care System

Project/Proposal Start and End Date: 01/01/2019 – 12/31/2023 (NCE)

Total Award Amount (including Indirect Costs):

Person Months (Calendar/Academic/Summer) per budget period:

Year (YYYY)	Person Months
1. 2019	1.2 CM
2. 2020	1.2 CM
3. 2021	1.2 CM
4. 2022	1.2 CM
5. 2023	1.2 CM

Overlap: * Dr. Vu's Salary and effort support contained within VA Physicist duties.

Title: Neurofunctional Differences in Cognitive and Behavioral Impulsivity in Veterans with PTSD.

Major Goals: The goal of this project is to assess the neurofunctional mechanisms that underlie the relationship between PTSD and impulsivity. Veteran participants will engage in cognitive (temporal discounting) and behavioral (go/no-go) tasks while in a functional magnetic resonance imaging scanner (fMRI). Neuroactivation and functional connectivity will be compared between Veterans with PTSD and Veterans without PTSD while participants engage in these along with comparing the tasks themselves. The importance of this proposed work lies in its potential to lead to the development of new treatments targeting impulsive behavior and its subdomains in Veterans with PTSD.

Specific Aims: This study aims to 1) use an fMRI TD task to examine the functional neuroanatomical underpinnings of cognitive impulsivity in Veterans with PTSD and 2) use an fMRI GNG task to examine the functional neuroanatomical underpinnings of behavioral impulsivity in Veterans with elevated PTSD levels.

Status of Support: Active

Project Number: CX001973-01A2

Name of PD/PI: Young

Source of Support: VA CSR&D Career Development Award

Primary Place of Performance: : San Francisco VA Health Care System

Project/Proposal Start and End Date: 07/01/2021 – 06/30/2026

Total Award Amount (including Indirect Costs):

Person Months (Calendar/Academic/Summer) per budget period:

Year (YYYY)	Person Months
1. 2023	Effort as needed

Overlap: * Dr. Vu's Salary and effort support contained within VA Physicist duties.

PENDING

None

IN-KIND

None

Name of Individual: Vu, An Ph.D.

Commons ID: jvujvu

UCSF Appointment (50% FTE or 6 CM max)

PREVIOUS

Title: The Neural Basis of Approach Bias Modification in Opioid Users with Chronic Pain

Major Goals: We will to develop state-of-the-art 7 Tesla high-resolution magnetic resonance spectroscopy (MRS) and functional magnetic resonance imaging (fMRI) to investigate the neurobiological mechanisms underlying opioid craving during a pilot RCT of opioid approach bias modification (ApBM). Combining novel ultra-high field MRI technology with the promising treatment of modifying cognitive bias away from detrimental prescription drug use will generate novel neural data and potentially yield a new therapeutic tool to reduce problematic opioid use.

Specific Aims: The high neuroanatomical precision and spatial resolution achievable on the VA's Siemens Terra 7T MR scanner will be leveraged to a) characterize neural signatures of opioid approach bias within reward network and b) preliminarily evaluate approach bias modification-related neurochemical changes in these neural networks.

Status of Support: Active

Project Number: N/A

Name of PD/PI: Pennington

Source of Support: Marcus Program in Precision Medicine Innovation

Primary Place of Performance: San Francisco VA Health Care System

Project/Proposal Start and End Date: 12/01/19 – 11/30/22 (NCE)

Total Award Amount (including Indirect Costs):

Person Months (Calendar/Academic/Summer) per budget period:

Year (YYYY)	Person Months
1. 2020	0.9 CM (WOC)
2. 2021	0.9 CM (WOC)
3. 2022	0.9 CM (WOC)

CURRENT

Title: Breaking the Barriers to Microscale fMRI

Major Goals: The goal of this proposal is to develop technology that is both novel and disruptive in order to achieve anatomical quality, dynamic B0 corrected, whole brain, microscale ($\leq 500 \mu\text{m}$ isotropic) fMRI. Our Brain Initiative work thus far has demonstrated that, with the significant SNR gains of MR Corticography and SLIDER technologies, ultra-high 500 μm resolution fMRI is feasible at 7T.

Specific Aims: 1) Develop Stimulus-Locked K-Space (SILK) fMRI for microscale whole-brain imaging. 2) Incorporate and evaluate motion mitigation techniques. 3) Incorporate and evaluate dynamic B0 correction technology.

Status of Support: Active

Project Number: R01 EB028670

Name of PD/PI: Vu

Source of Support: NIH

Primary Place of Performance: San Francisco VA Health Care System

Project/Proposal Start and End Date: 09/20/19-09/19/23 (NCE)

Total Award Amount (including Indirect Costs):

Name of Individual: Vu, An Ph.D.

Commons ID: jvujvu

Person Months (Calendar/Academic/Summer) per budget period:

Year (YYYY)	Person Months
1. 2019	2.04 CM
2. 2020	2.04 CM
3. 2021	2.04 CM
4. 2022	2.04 CM
5. 2023	2.04 CM

Title: UCSF Core Center for Patient-centric Mechanistic Phenotyping in Chronic Low Back Pain (UCSF REACH)

Major Goals: The major goal of this project is to define chronic low back pain (cLBP) phenotypes and pain mechanisms that can lead to effective, personalized treatments for patients across the population.

Specific Aims: UCSF REACH proposes six cores: 1) Administrative Core; 2) Clinical Core; 3) Informatics Core; 4) Bio-behavioral Core; 5) Pathophysiology Core; and 6) Physical Function and Biomechanics Core. These cores will provide support to a single research project that is focused on the challenge of developing validated and adoptable tools that enable comprehensive yet routine clinical assessment and treatment of CLBP patients.

Status of Support: Active

Project Number: U19AR076737

Name of PD/PI: Lotz

Source of Support: NIH-NIAMS

Primary Place of Performance: San Francisco VA Health Care System

Project/Proposal Start and End Date: 10/01/19 – 09/30/24

Total Award Amount (including Indirect Costs):

Person Months (Calendar/Academic/Summer) per budget period:

Year (YYYY)	Person Months
1. 2020	1.78 CM
2. 2021	1.78 CM
3. 2022	1.78 CM
4. 2023	1.78 CM
5. 2024	1.78 CM

Title: Developing next generation microscale human cortex MRI scanner.

Major Goals: The goal of this Brain Initiative Project is to develop the next generation 7T MRI scanner incorporating MRI Corticography technology with several other cutting-edge technologies (e.g. SLIDER fMRI, 128 receiver channels, high performance head gradients, local RF coil B0 shimming).

Specific Aims: 1) Build next generation MRCoG MRI scanner for imaging human cortex. 2) Design pulse sequences and algorithms for microscale spatial resolution. 3) Apply MRCoG to reveal functional and anatomical circuitry across cortical layers and columns.

Status of Support: Active

Project Number: U01 EB025162

Name of PD/PI: Feinberg

Source of Support: NIH

Primary Place of Performance: UC Berkeley

Project/Proposal Start and End Date: 9/2017-7/2023 (NCE)

Total Award Amount (including Indirect Costs):

Person Months (Calendar/Academic/Summer) per budget period:

Name of Individual: Vu, An Ph.D.

Commons ID: jvujvu

Year (YYYY)	Person Months
1. 2018	0.6 CM
2. 2019	0.6 CM
3. 2020	0.6 CM
4. 2021	0.6 CM
5. 2022	0.6 CM
6. 2023	0.6 CM

Title: Can neural network instability in schizophrenia be improved with a very low carbohydrate ketogenic diet?

Major Goals: This work brings together cardiovascular metabolism and psychiatry to address two problems experienced by people with schizophrenia: neural network instability (associated with cognitive deficits) and insulin resistance (associated with morbidity and mortality). Although case studies of ketogenic diets are encouraging, a controlled ketogenic diet has never been tried in people with schizophrenia. At the end of this 2-year project, we will know if deficient glucose metabolism, at least partially mediated by primary or secondary insulin resistance, contributes to network instability in schizophrenia, a pathophysiological mechanism underlying accelerated aging and cognitive impairment.

Specific Aims: 1) To assess changes in network instability with KETO and DAU in SZ. 2) To establish metabolic and inflammatory indices as correlates of change in network stability with the KETO diet. 3) Assess neuropsychological functions at baseline to determine whether they are correlated with baseline network instability in SZ, similar to what has been reported in neurotypical adults.

Status of Support: Active

Project Number: R21MH12749

Name of PD/PI: Ford

Source of Support: National Institute of Mental Health

Primary Place of Performance: San Francisco VA Health Care System

Project/Proposal Start and End Date: 09/2021 – 08/2023

Total Award Amount (including Indirect Costs):

Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months
1. 2022	0.24 calendar
2. 2023	0.24 calendar

OVERLAP

None

PENDING

Title: Investigating Fear System Myelination in PTSD Using In Vivo and Post Mortem Data

Major Goals: The project will test the hypothesis that PTSD is associated with changes in gray matter myelin content which affect functional circuits. The project involves the study of postmortem brain tissue from the National Center for PTSD Brain Bank as well as living subjects studied with brain imaging.

Specific Aims: 1) We will determine whether, in post mortem brain, PTSD is associated with reduced GM circuit complexity in the TRN as compared to control structures in the DMN. 2) We will determine using in vivo structural imaging at 7T (neurite density), and at 3T (GM myelin content), whether PTSD severity is associated with reduced GMCC in the TRN as compared to control structures in the DMN. 3) We will determine whether post mortem and in vivo measures of GMCC in the TRN predict lower global connection strength in the DMN in PTSD.

Name of Individual: Vu, An Ph.D.

Commons ID: jvujvu

Status of Support: Pending

Project Number: 1R01MH132617

Name of PD/PI: Neylan

Source of Support: NIH/NIMH

Primary Place of Performance: San Francisco VA Health Care System

Project/Proposal Start and End Date: 04/2023 – 03/2028

Total Award Amount (including Indirect Costs):

Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months
1. 2023	0.9 calendar
2. 2024	0.9 calendar
3. 2025	0.9 calendar
4. 2026	0.9 calendar
5. 2027	0.9 calendar

IN-KIND

None

I, An Vu, certify that the statements herein are true, complete and accurate to the best of my knowledge, agree to update such disclosure at the request of the agency prior to the award of support and at any subsequent time the agency determines appropriate during the term of the award and accept the obligation to comply with Section 223(a) of the William M. (Mac) Thornberry National Defense Authorization Act for Fiscal Year 2021. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties.

Signature:  _____

Date: 5/30/2023 _____

*Name of Individual: Barnes, Deborah
 Commons ID: BARNESD

OTHER SUPPORT – PROJECT/PROPOSAL

UCSF APPOINTMENT (100% FTE or 12.0 cal. mos.)

TABLE SUMMARIZING COMMITTED EFFORT BY MONTH: JUNE 2023 – MAY 2024

Project	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
U54AG063546 (IMPACT Collaboratory)	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11
R01AG067427 (eRADAR implementation)	.225	.225	.225	.225	.225	.225	.225	.225	.225	.225		
R01AG069734 (eRADAR multisite)	.115	.115	.115	.115	.115	.115	.115	.115	.115	.115	.25	.25
R44AG074727 (Brain Health Together)	.225	.225	.225	.225	.225	.225	.225	.225	.225	.225	.225	
PO558735 (UCLA Alz Assn sub)	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05
AZ20029 (MOTION)	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05
R44AG082605 (RADAR)	.225	.225	.225	.225	.225	.225	.225	.225	.225	.225	.25	.25
TOTAL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	.935	.71

ACTIVE

***Title: NIA AD/ADRD Health Care Systems Research Collaboratory**

Major Goals: The NIA AD/ADRD Collaboratory will provide the national infrastructure necessary to catalyze and support embedded pragmatic clinical trials of non-pharmacological interventions for persons with dementia. As a Pilot Core Executive Committee member, I will assist with reviewing, selecting and supporting pilot studies.

*Status of Support: Active Project Number: U54 AG063546

Name of PD/PI: Mor/Mitchell

*Source of Support: NIH/NIA

*Primary Place of Performance: University of California, San Francisco

Project/Proposal Start and End Date: (MM/YYYY): 9/1/2019 – 6/30/2024

*Total Award Amount (including Indirect Costs): (subaward – includes award amounts through NCIRE and UCSF)

*Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
5. 2024	1.32 calendar

***Title: Identifying and supporting patients with undiagnosed dementia using the HER Risk of Alzheimer’s and Dementia Assessment Rule (eRADAR): a pilot clinical trial**

Major Goals: This study will develop and test a new approach for identifying and reaching out to patients at risk of having undiagnosed dementia based on information in their electronic health records, aiming to maximize benefits while reducing harms.

*Status of Support: Active

Project Number: R01 AG067427

*Name of Individual: Barnes, Deborah
Commons ID: BARNESD

Name of PD/PI: Dublin/Barnes

*Source of Support: NIH/NIA

*Primary Place of Performance: University of California, San Francisco

Project/Proposal Start and End Date: 7/15/2020 – 4/30/2024

*Total Award Amount (including Indirect Costs):

*Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
4. 2024	2.70 calendar

***Title: Low-cost detection of dementia using electronic health records data: validation and testing of the eRADAR algorithm in a pragmatic, patient-centered trial**

Major Goals: To determine whether implementation of the electronic health record Risk of Alzheimer’s and Dementia Assessment Rule (eRADAR) algorithm as part of a targeted, supported outreach process in primary care improve dementia detection and patient outcomes compared to usual care.

*Status of Support: Active

Project Number: R01 AG069734

Name of PD/PI: Dublin/Barnes

*Source of Support: NIH/NIA

*Primary Place of Performance: University of California, San Francisco

Project/Proposal Start and End Date: (MM/YYYY): 9/30/2020 – 5/31/2025

*Total Award Amount (including Indirect Costs):

*Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
4. 2024	1.38 calendar
5. 2025	3.00 calendar

***Title: Brain Health Together: A Livestreaming Group-Based Digital Program**

Major Goals: To determine whether the Brain Health Together program—an online, digital, livestream, virtual group program—improves cognitive function and reduces dementia risk factors in people with mild cognitive impairment.

*Status of Support: Active

Project Number: R44 AG074727 (P0559425)

Name of PD/PI: Benjamin/Barnes

*Source of Support: NIH Natl Institute on Aging

*Primary Place of Performance: University of California, San Francisco

Project/Proposal Start and End Date: 01/01/2022 – 05/31/2024

*Name of Individual: Barnes, Deborah
Commons ID: BARNESD

*Total Award Amount (including Indirect Costs):

*Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
NCE. 2024	2.70 calendar

***Title: Impact of Lifestyle Interventions on Alzheimer’s Disease: A Microsimulation**

Major Goals: The Specific Aims of this proposal are to: 1) Forecast the 10-year incidence of dementia. By socioeconomic status and U.S. regions given current risk factor prevalence and 2) Evaluate the potential long-term impact of midlife lifestyle interventions targeting disadvantaged subpopulations, high-risk subpopulations and the general population on incidence of Alzheimer’s disease and related disorders.

*Status of Support: Active

Project Number: P0558735

Name of PD/PI: Nianogo

*Source of Support: Alzheimer’s Association, Inc.

*Primary Place of Performance: University of California, San Francisco

Project/Proposal Start and End Date: (MM/YYYY): 07/01/2022 – 12/31/2024

*Total Award Amount (including Indirect Costs):

*Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
3. 2024	0.60 calendar

***Title: MOTION: Moving Online Together, Investigation Of Neurocognition**

Major Goals: (1) To evaluate the effects of tele-PLIÉ and tele-Tai Chi Chih (TCC) versus the tele-Health and Wellness Education (HWE) control on the Alzheimer’s Disease Assessment Scale - cognitive subscale (ADAS-cog). (2) To evaluate the effects of tele-PLIÉ and tele-TCC versus tele-HWE on Default Mode Network (DMN) functional connectivity. (3) To explore the association between changes in DMN connectivity with changes in ADAS-cog.

*Status of Support: Active

Project Number: AZ20029

Name of PD/PI: Chao

*Source of Support: Department of Defense/CDMRP/PRARP

*Primary Place of Performance: University of California, San Francisco

Project/Proposal Start and End Date: (MM/YYYY) (if available): 08/2021 – 07/2024

*Total Award Amount (including Indirect Costs):

*Person Months (Calendar/Academic/Summer) per budget period.

*Name of Individual: Barnes, Deborah
Commons ID: BARNESD

Year (YYYY)	Person Months (##.##)
3. 2024	0.60 calendar

***Title: A Novel Algorithm to Identify People with Undiagnosed Alzheimer's Disease and Related Dementias**

Major Goals: The primary goal of this Small Business Innovation Research (SBIR) Direct Phase II project is to test, refine, and bring to market a novel algorithm that uses electronic healthcare data to identify patients with undiagnosed Alzheimer’s disease and related dementias (ADRD).

Status of Support: Pending

Project Number: R44 AG082605

Name(s) of PD/PI: Benjamin/Barnes

Source of Support: NIH/NIA

Primary Place of Performance: University of California, San Francisco

Project/Proposal Start and End Date: (06/01/2023) – (05/31/2025)

Total Award Amount (including Indirect Costs): Person Months (Calendar/
Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2. 2024	2.70 calendar
3. 2025	3.00 calendar

***Overlap** (summarized for each individual):

There is scientific overlap between R01 AG069734 and project R01 AG067427. Budgetary overlap has been eliminated.

I, PD/PI or other senior/key personnel, certify that the statements herein are true, complete and accurate to the best of my knowledge, and accept the obligation to comply with Public Health Services terms and conditions if a grant is awarded as a result of this application. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties.

*Signature: _____

Date: August 9, 2023