

Timothy Durazzo

Professor of Psychiatry and Behavioral Sciences (Public Mental Health and Population Sciences)

Bio

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Psychiatry and Behavioral Sciences

COMMUNITY AND INTERNATIONAL WORK

- Commissioned Officer, CA Army National Guard

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The mission of the Durazzo BRASS lab is to better understand how the interplay between biomedical, psychological and social factors influence treatment outcome in Veterans and civilians seeking treatment for alcohol and substance use disorders. To accomplish this mission, our multidisciplinary team integrates information from advanced neuroimaging, neurocognitive assessment, psychodiagnostic and genotyping methods to identify the biopsychosocial factors associated with relapse and sustained sobriety. Veteran's Administration and Stanford funded Clinical trials are currently being conducted by the BRASS lab that evaluate repetitive transcranial magnetic stimulation techniques as novel complementary treatments to reduce the high rate of relapse experienced by individuals with alcohol and substance abuse disorders. The ultimate goal of our multidisciplinary research program is to promote the development of more effective biomedical and behavioral treatments for alcohol and substance use disorders through consideration of the brain biology, psychology and social circumstances of each individual.

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

April May

Publications

PUBLICATIONS

- **Regional cortical brain volumes at treatment entry relates to post treatment WHO risk drinking levels in those with alcohol use disorder.** *Drug and alcohol dependence*
Durazzo, T. C., Stephens, L. H., Kraybill, E. P., May, A. C., Meyerhoff, D. J.
2024; 255: 111082
- **A pilot, randomized clinical trial: Left dorsolateral prefrontal cortex intermittent theta burst stimulation improves treatment outcomes in veterans with alcohol use disorder.** *Alcohol, clinical & experimental research*
Padula, C. B., McCalley, D. M., Tenekedjieva, L., MacNiven, K., Rauch, A., Morales, J. M., Knutson, B., Humphreys, K., Williams, L. M., Durazzo, T. C.
2024; 48 (1): 164-177
- **Leadership Styles Experienced During Military Service Predict Later Anhedonic Depressive Symptoms and Self-Efficacy in Veterans With Alcohol Use Disorder.** *Military medicine*

- Durazzo, T. C., Humphreys, K., LaRocca, M. A.
2023
- **Non-abstinent recovery in alcohol use disorder is associated with greater regional cortical volumes than heavy drinking** *ALCOHOL-CLINICAL AND EXPERIMENTAL RESEARCH*
May, A. C., Meyerhoff, D. J., Durazzo, T. C.
2023: 1850-1858
 - **Regional cortical thickness recovery with extended abstinence after treatment in those with alcohol use disorder.** *Alcohol (Fayetteville, N.Y.)*
Durazzo, T. C., Stephens, L. H., Meyerhoff, D. J.
2023
 - **BDNF rs6265 Met carriers with alcohol use disorder show greater age-related decline of N-acetylaspartate in left dorsolateral prefrontal cortex.** *Drug and alcohol dependence*
Durazzo, T. C., McNerney, M. W., Hansen, A. M., Gu, M., Sacchet, M. D., Padula, C. B.
2023; 248: 109901
 - **Active Cigarette Smoking Is Associated With Increased Age-Related Decline on Measures of Visuospatial Learning and Memory and Executive Function in Alcohol Use Disorder.** *Alcohol and alcoholism (Oxford, Oxfordshire)*
Padula, C. B., Durazzo, T. C.
2022
 - **Targeting the Salience Network: A Mini-Review on a Novel Neuromodulation Approach for Treating Alcohol Use Disorder.** *Frontiers in psychiatry*
Padula, C. B., Tenekedjieva, L., McCalley, D. M., Al-Dasouqi, H., Hanlon, C. A., Williams, L. M., Kozel, F. A., Knutson, B., Durazzo, T. C., Yesavage, J. A., Madore, M. R.
2022; 13: 893833
 - **Repetitive Transcranial Magnetic Stimulation as a Treatment for Veterans with Cognitive Impairment and Multiple Comorbidities.** *Journal of Alzheimer's disease : JAD*
Cheng, J., Fairchild, J. K., McNerney, M. W., Noda, A., Ashford, J. W., Suppes, P., Chao, S. Z., Taylor, J., Rosen, A., Durazzo, T., Lazzeroni, L. C., Yesavage, J.
1800
 - **GABA concentrations in the anterior cingulate and dorsolateral prefrontal cortices: Associations with chronic cigarette smoking, neurocognition, and decision making.** *Addiction biology*
Durazzo, T. C., Meyerhoff, D. J.
2021; 26 (3): e12948
 - **The Role of Neural Reward Expectancy and Valuation in Readiness to Change Among Treatment Seeking Veterans With Alcohol Use Disorder (AUD)**
Hagerty, S. L., Durazzo, T. C., Williams, L. M., Padula, C. B.
ELSEVIER SCIENCE INC.2021: S342
 - **Not All Is Lost for Relapsers: Relapsers With Low WHO Risk Drinking Levels and Complete Abstainers Have Comparable Regional Gray Matter Volumes** *ALCOHOLISM-CLINICAL AND EXPERIMENTAL RESEARCH*
Meyerhoff, D. J., Durazzo, T. C.
2020
 - **Evaluation of adding the CANTAB computerized neuropsychological assessment battery to a traditional battery in a tertiary care center for veterans** *APPLIED NEUROPSYCHOLOGY-ADULT*
Schulz-Heik, R., Fahimi, A., Durazzo, T. C., Friedman, M., Bayley, P. J.
2020; 27 (3): 256–66
 - **Predicting relapse after alcohol use disorder treatment in a high-risk cohort: The roles of anhedonia and smoking.** *Journal of psychiatric research*
Nguyen, L., Durazzo, T. C., Dwyer, C. L., Rauch, A. A., Humphreys, K., Williams, L. M., Padula, C. B.
2020; 126: 1–7
 - **Cigarette Smoking History is associated with Poorer Recovery in Multiple Neurocognitive Domains Following Treatment for an Alcohol Use Disorder.** *Alcohol (Fayetteville, N.Y.)*
Durazzo, T. C., Meyerhoff, D. J.
2020
 - **Medical Conditions Linked to Atherosclerosis Are Associated With Magnified Cortical Thinning in Individuals With Alcohol Use Disorders.** *Alcohol and alcoholism (Oxford, Oxfordshire)*

Durazzo, T. C., Nguyen, L. C., Meyerhoff, D. J.
2020

- **Modeling neurocognitive and neurobiological recovery in addiction** *COGNITION AND ADDICTION: A RESEARCHER'S GUIDE FROM MECHANISMS TOWARDS INTERVENTIONS*
Meyerhoff, D. J., Durazzo, T. C., VerdejoGarcia, A.
2020: 379–92
- **Evaluation of adding the CANTAB computerized neuropsychological assessment battery to a traditional battery in a tertiary care center for veterans.** *Applied neuropsychology. Adult*
Schulz-Heik, R. J., Fahimi, A., Durazzo, T. C., Friedman, M., Bayley, P. J.
2019: 1–11
- **Changes of frontal cortical subregion volumes in alcohol dependent individuals during early abstinence: associations with treatment outcome.** *Brain imaging and behavior*
Durazzo, T. C., Meyerhoff, D. J.
2019
- **Cerebellar Morphometry and Cognition in the Context of Chronic Alcohol Consumption and Cigarette Smoking.** *Alcoholism, clinical and experimental research*
Cardenas, V. A., Hough, C. M., Durazzo, T. C., Meyerhoff, D. J.
2019
- **White matter microstructural correlates of relapse in alcohol dependence** *PSYCHIATRY RESEARCH-NEUROIMAGING*
Zou, Y., Murray, D. E., Durazzo, T. C., Schmidt, T. P., Murray, T. A., Meyerhoff, D. J.
2018; 281: 92-100
- **Cigarette smoking is associated with cortical thinning in anterior frontal regions, insula and regions showing atrophy in early Alzheimer's Disease** *DRUG AND ALCOHOL DEPENDENCE*
Durazzo, T. C., Meyerhoff, D. J., Yoder, K. K.
2018; 192: 277-284
- **Cigarette smoking is associated with cortical thinning in anterior frontal regions, insula and regions showing atrophy in early Alzheimer's Disease.** *Drug and alcohol dependence*
Durazzo, T. C., Meyerhoff, D. J., Yoder, K. K.
2018; 192: 277–84
- **White matter microstructural correlates of relapse in alcohol dependence.** *Psychiatry research. Neuroimaging*
Zou, Y., Murray, D. E., Durazzo, T. C., Schmidt, T. P., Murray, T. A., Meyerhoff, D. J.
2018; 281: 92–100
- **Regional Brain Volume Changes in Alcohol-Dependent Individuals During Short-Term and Long-Term Abstinence** *ALCOHOLISM-CLINICAL AND EXPERIMENTAL RESEARCH*
Zou, X., Durazzo, T. C., Meyerhoff, D. J.
2018; 42 (6): 1062–72
- **Differences in White Matter Microstructure and Connectivity in Nontreatment-Seeking Individuals with Alcohol Use Disorder** *ALCOHOLISM-CLINICAL AND EXPERIMENTAL RESEARCH*
Chumin, E. J., Goni, J., Halcomb, M. E., Durazzo, T. C., Dziedzic, M., Yoder, K. K.
2018; 42 (5): 889–96
- **Brain GABA and Glutamate Concentrations Following Chronic Gabapentin Administration: A Convenience Sample Studied During Early Abstinence From Alcohol** *FRONTIERS IN PSYCHIATRY*
Meyerhoff, D. J., Murray, D. E., Durazzo, T. C., Pennington, D. L.
2018; 9: 78
- **Regional cerebral blood flow in opiate dependence relates to substance use and neuropsychological performance** *ADDICTION BIOLOGY*
Murray, D. E., Durazzo, T. C., Schmidt, T. P., Murray, T. A., Abe, C., Guydish, J., Meyerhoff, D. J.
2018; 23 (2): 781–95
- **Cigarette smoking is associated with amplified age-related volume loss in subcortical brain regions.** *Drug and alcohol dependence*

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- Durazzo, T. C., Meyerhoff, D. J., Yoder, K. K., Murray, D. E.
2017; 177: 228-236
- **Effects of abstinence and chronic cigarette smoking on white matter microstructure in alcohol dependence: Diffusion tensor imaging at 4T.** *Drug and alcohol dependence*
Zou, Y., Murray, D. E., Durazzo, T. C., Schmidt, T. P., Murray, T. A., Meyerhoff, D. J.
2017; 175: 42-50
 - **Neurocognition and inhibitory control in polysubstance use disorders: Comparison with alcohol use disorders and changes with abstinence** *JOURNAL OF CLINICAL AND EXPERIMENTAL NEUROPSYCHOLOGY*
Schmidt, T. P., Pennington, D. L., Cardoos, S. L., Durazzo, T. C., Meyerhoff, D. J.
2017; 39 (1): 22-34
 - **Psychiatric, Demographic, and Brain Morphological Predictors of Relapse After Treatment for an Alcohol Use Disorder.** *Alcoholism, clinical and experimental research*
Durazzo, T. C., Meyerhoff, D. J.
2017; 41 (1): 107-116
 - **Regional brain volume changes in alcohol-dependent individuals during early abstinence: associations with relapse following treatment.** *Addiction Biology*
Durazzo, T. C., Mon, A., Gazdzinski, S., Meyerhoff, D. J.
2017; 22 (5): 1416-1425
 - **Neurocognition and inhibitory control in polysubstance use disorders: Comparison with alcohol use disorders and changes with abstinence.** *Journal of clinical and experimental neuropsychology*
Schmidt, T. P., Pennington, D. L., Cardoos, S. L., Durazzo, T. C., Meyerhoff, D. J.
2016: 1-13
 - **Fat may affect magnetic resonance signal intensity and brain tissue volumes.** *Obesity research & clinical practice*
Mon, A., Abé, C., Durazzo, T. C., Meyerhoff, D. J.
2016; 10 (2): 211-5
 - **Frontal Metabolite Concentration Deficits in Opiate Dependence Relate to Substance Use, Cognition, and Self-Regulation.** *Journal of addiction research & therapy*
Murray, D. E., Durazzo, T. C., Schmidt, T. P., Abé, C., Guydish, J., Meyerhoff, D. J.
2016; 7 (4)
 - **Active Cigarette Smoking in Cognitively-Normal Elders and Probable Alzheimer's Disease is Associated with Elevated Cerebrospinal Fluid Oxidative Stress Biomarkers.** *Journal of Alzheimer's disease : JAD*
Durazzo, T. C., Korecka, M., Trojanowski, J. Q., Weiner, M. W., O' Hara, R., Ashford, J. W., Shaw, L. M.
2016; 54 (1): 99-107
 - **Chronic Cigarette Smoking in Healthy Middle-Aged Individuals Is Associated With Decreased Regional Brain N-acetylaspartate and Glutamate Levels.** *Biological psychiatry*
Durazzo, T. C., Meyerhoff, D. J., Mon, A., Abé, C., Gazdzinski, S., Murray, D. E.
2016; 79 (6): 481-8
 - **Interaction of Cigarette Smoking History With APOE Genotype and Age on Amyloid Level, Glucose Metabolism, and Neurocognition in Cognitively Normal Elders.** *Nicotine & tobacco research : official journal of the Society for Research on Nicotine and Tobacco*
Durazzo, T. C., Mattsson, N., Weiner, M. W.
2016; 18 (2): 204-11
 - **Serial longitudinal magnetic resonance imaging data indicate non-linear regional gray matter volume recovery in abstinent alcohol-dependent individuals.** *Addiction biology*
Durazzo, T. C., Mon, A., Gazdzinski, S., Yeh, P. H., Meyerhoff, D. J.
2015; 20 (5): 956-67
 - **Comparison of Regional Brain Perfusion Levels in Chronically Smoking and Non-Smoking Adults.** *International journal of environmental research and public health*
Durazzo, T. C., Meyerhoff, D. J., Murray, D. E.
2015; 12 (7): 8198-213
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- **Brain perfusion in polysubstance users: relationship to substance and tobacco use, cognition, and self-regulation.** *Drug and alcohol dependence*
Murray, D. E., Durazzo, T. C., Mon, A., Schmidt, T. P., Meyerhoff, D. J.
2015; 150: 120-8
- **Alcohol use disorder with and without stimulant use: brain morphometry and its associations with cigarette smoking, cognition, and inhibitory control.** *PloS one*
Pennington, D. L., Durazzo, T. C., Schmidt, T. P., Abé, C., Mon, A., Meyerhoff, D. J.
2015; 10 (3): e0122505