

# Stanford

---

## Timothy Durazzo

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

### Bio

---

#### ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Psychiatry and Behavioral Sciences

### 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 influences 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.

### Publications

---

#### PUBLICATIONS

- **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
- **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.  
2020
- **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
- **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
- **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
- **Reply to: On the Correction of Effects of Flip Angle in 1H Magnetic Resonance Spectroscopy Signal Acquired Using Stimulated Echo Acquisition Mode Sequence.** *Biological psychiatry*  
Durazzo, T. C., Murray, D. E., Meyerhoff, D. J.  
2017; 81 (2): e17
- **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
- **Cigarette smoking is associated with amplified age-related volume loss in subcortical brain regions.** *Drug and alcohol dependence*  
Durazzo, T. C., Meyerhoff, D. J., Yoder, K. K., Murray, D. E.  
2017; 177: 228-36
- **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
- **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