Bio

ACADEMIC APPOINTMENTS
• Associate Professor - Med Center 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
• 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

• 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., Dzemidzic, 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

• 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