Stanford

Timothy Durazzo

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

Bio

ACADEMIC APPOINTMENTS

- Professor-Univ Med Line, Psychiatry and Behavioral Sciences
- Member, Bio-X

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. Data from Veteran's Administration and Stanford funded Clinical trials are currently being analyzed by the BRASS lab to evaluate the efficacy of repetitive transcranial magnetic stimulation techniques as novel complementary treatments to reduce the high rate of return to hazardous drinking 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.

CLINICAL TRIALS

- Examining the Effectiveness of Deep TMS in Veterans With Alcohol Use Disorder, Not Recruiting
- Transcranial Magnetic Stimulation for the Treatment of Veterans With Alcohol Use Disorders, Not Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Masataka Wada

Publications

PUBLICATIONS

- **The OPRM1 A118G G Allele Is Associated With Poorer Auditory-Verbal Learning and Memory, Executive Functions, and Working Memory in Veterans Undergoing Residential Treatment for Alcohol Use Disorder.** *Alcohol, clinical & experimental research*
  Andrade, R., McNerney, M. W., Kraybill, E. P., Padula, C. B., Durazzo, T. C.
  2026; 50 (8): e70385
- **In healthy adults with low-level alcohol intake greater age and lifetime alcohol consumption are associated with poorer manual dexterity and higher lifetime consumption is related to worse postural stability.** *Alcohol and alcoholism (Oxford, Oxfordshire)*
  Durazzo, T. C., Evangelista, N. D., McNerney, M. W., Furst, A. J., Adamson, M. M., Humphreys, K., Meyerhoff, D. J.
  2026; 61 (5)
- **Cigarette smoking, history of major depression and PTSD diagnosis are associated with metabolite levels in the left dorsolateral prefrontal cortex in those in treatment for alcohol use disorder.** *Drug and alcohol dependence*
  Durazzo, T. C., Carolan, R. E., Beauregard, L. H., Gu, M., Padula, C. B.
  2026; 285: 113194
- **The Interaction of Age and Total Lifetime Drinks is Associated with Regional Cortical Perfusion and Thickness in Healthy Adults with Low-level Alcohol Consumption.** *Alcohol (Fayetteville, N.Y.)*
  Durazzo, T. C., Joseff, B. D., McNerney, M. W., Humphreys, K., Meyerhoff, D. J.
  2026
- **Changes in Anhedonic Symptoms are Related to Transformational Leadership Styles Experienced During Military Service in Veterans With Alcohol Use Disorder** *International Journal of Addiction Nursing*
  Durazzo, T. C., LaRocca, M. A.
  2026
- **Toward Inclusive, Evidence-Based rTMS Care for Patients With Co-Occurring Substance Use Disorders.** *The American journal of psychiatry*
  Steele, V. R., Addicott, M. A., Addolorato, G., Baker, T., Biernacki, K., Bonci, A., Brady, K. T., Daughters, S. B., Diana, M., Durazzo, T. C., Ekhtiari, H., Fecteau, S., Fede, et al
  2025; 182 (12): 1095-1096
- **Lower striatal dopamine D2 receptor availability in individuals who test positive for quantitated urine metabolites of tobacco and/or marijuana smoke.** *Nicotine & tobacco research : official journal of the Society for Research on Nicotine and Tobacco*
  Yoder, K. K., Carpenter, S., Hile, K. L., Dzemidzic, M., Durazzo, T. C.
  2025
- **Effects of intermittent theta burst on multiple measures of craving in those with alcohol use disorder.** *Journal of studies on alcohol and drugs*
  Durazzo, T. C., Humphreys, K., Padula, C. B.
  2025
- **Low Level Alcohol Consumption is Associated with Lower Regional Brain Volume and Thickness and Lower Choline-Containing Compounds and Myo-Inositol Levels in Healthy Adults.** *Alcohol (Fayetteville, N.Y.)*
  Durazzo, T. C., Joseff, B. D., Meyerhoff, D. J.
  2025
- **A Customized Neural Transcranial Magnetic Stimulation Target for Functional Disability Among Veterans With Co-Occurring Alcohol Use Disorder and Mild Traumatic Brain Injury: Protocol for a Pilot Randomized Controlled Trial.** *JMIR research protocols*
  Herrold, A. A., Aaronson, A. L., Bhaumik, D., Durazzo, T., Livengood, S. L., Ramic, A., Riordan, P., Jordan, N., Parrish, T., Mallinson, T., Kale, I. O., Billups, A., Krese, et al
  2025; 14: e64909
- **Intermittent theta burst to the left dorsolateral prefrontal cortex promoted decreased alcohol consumption and improved outcomes in those with alcohol use disorder: A randomized, double-blind, placebo-controlled clinical trial.** *Drug and alcohol dependence*
  Durazzo, T. C., Kraybill, E. P., Stephens, L. H., McCalley, D. M., Humphreys, K., May, A. C., Padula, C. B.
  2025; 270: 112641
- **Effects of intermittent theta burst to the left dorsolateral prefrontal cortex on brain volumes and neurometabolites in people with alcohol use disorder: a preliminary investigation.** *Frontiers in human neuroscience*

Durazzo, T. C., Beauregard, L. H., Gu, M., Kraybill, E. P., Joseff, B. D., Herrold, A. A., Humphreys, K., McNerney, M. W., Knutson, B., Padula, C. B.
2025; 19: 1613993

- **Frontal Brain N-Acetylaspartate at Treatment Entry is Related to Future WHO Risk Drinking Levels in Individuals with Alcohol Use Disorder.** *Journal of studies on alcohol and drugs*
  May, A. C., Stephens, L. H., Kraybill, E. P., Meyerhoff, D. J., Durazzo, T. C.
  2024
- **Greater ventral striatal functional connectivity in cigarette smokers relative to non-smokers across a spectrum of alcohol consumption.** *Brain imaging and behavior*
  Halcomb, M. E., Dzemidzic, M., Avena-Koenigsberger, A., Hile, K. L., Durazzo, T. C., Yoder, K. K.
  2024
- **Pro-atherogenic medical conditions are associated with widespread regional brain metabolite abnormalities in those with alcohol use disorder.** *Alcohol and alcoholism (Oxford, Oxfordshire)*
  Durazzo, T. C., Kraybill, E. P., Stephens, L. H., May, A. C., Meyerhoff, D. J.
  2024; 59 (5)
- **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*

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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.
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- **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.
  edited by VerdejoGarcia, A.
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- **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., Dzemidzic, M., Yoder, K. K.
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- **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.
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- **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.
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- **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: 228-236
- **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.
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  Durazzo, T. C., Mon, A., Gazdzinski, S., Meyerhoff, D. J.
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- **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.
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- **Fat may affect magnetic resonance signal intensity and brain tissue volumes.** *Obesity research & clinical practice*
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  2016; 7 (4)
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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.
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- **Alcohol use disorder with and without stimulant use: brain morphometry and its associations with cigarette smoking, cognition, and inhibitory control.** *PloS one*
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- **Genetic and behavioral determinants of hippocampal volume recovery during abstinence from alcohol.** *Alcohol (Fayetteville, N.Y.)*
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  Mon, A., Durazzo, T. C., Abe, C., Gazdzinski, S., Pennington, D., Schmidt, T., Meyerhoff, D. J.
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- **Postural stability in cigarette smokers and during abstinence from alcohol.** *Alcoholism, clinical and experimental research*
  Schmidt, T. P., Pennington, D. L., Durazzo, T. C., Meyerhoff, D. J.
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  Durazzo, T. C., Mattsson, N., Weiner, M. W.
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- **Interactive effects of chronic cigarette smoking and age on brain volumes in controls and alcohol-dependent individuals in early abstinence.** *Addiction biology*
  Durazzo, T. C., Mon, A., Pennington, D., Abé, C., Gazdzinski, S., Meyerhoff, D. J.
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  Kuceyeski, A., Meyerhoff, D. J., Durazzo, T. C., Raj, A.
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- **Interactive effects of chronic cigarette smoking and age on hippocampal volumes.** *Drug and alcohol dependence*
  Durazzo, T. C., Meyerhoff, D. J., Nixon, S. J.
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- **Neurocognition in 1-month-abstinent treatment-seeking alcohol-dependent individuals: interactive effects of age and chronic cigarette smoking.** *Alcoholism, clinical and experimental research*
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- **Metabolic abnormalities in lobar and subcortical brain regions of abstinent polysubstance users: magnetic resonance spectroscopic imaging.** *Alcohol and alcoholism (Oxford, Oxfordshire)*
  Abé, C., Mon, A., Hoefer, M. E., Durazzo, T. C., Pennington, D. L., Schmidt, T. P., Meyerhoff, D. J.
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  Yeo, R. A., Thoma, R. J., Gasparovic, C., Monnig, M., Harlaar, N., Calhoun, V. D., Kalyanam, R., Mayer, A. R., Durazzo, T. C., Hutchison, K. E.
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  Mon, A., Durazzo, T. C., Gazdzinski, S., Hutchison, K. E., Pennington, D., Meyerhoff, D. J.
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  Mon, A., Durazzo, T. C., Meyerhoff, D. J.
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- **A comprehensive assessment of neurocognition in middle-aged chronic cigarette smokers.** *Drug and alcohol dependence*
  Durazzo, T. C., Meyerhoff, D. J., Nixon, S. J.
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- **A mathematical formula for prediction of gray and white matter volume recovery in abstinent alcohol dependent individuals.** *Psychiatry research*
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- **Cortical thickness, surface area, and volume of the brain reward system in alcohol dependence: relationships to relapse and extended abstinence.** *Alcoholism, clinical and experimental research*
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