Title: Substance Use Disorder Influence on Adolescents Brain Development

Brief Description

- Substance abuse has not changed much over time. However, the types of substances and the “times” are certainly changing with the access to modern technology. The experiential difference between the over 40 adult and the under 25 person has never been greater. We as providers of healthcare, first responders and law enforcement are dealing with an entirely different adolescent/young adult than we have ever known. Adolescence and young adulthood are a unique period in neurodevelopment. Recent research has indicated that adolescent substance users show abnormalities on measures of brain functioning, which is linked to changes in neurocognition over time. These specific neurological changes can impact the already difficulty to navigate cognitive and emotional functioning of the average adolescent and young adult. This presentation will review briefly these neurological and development changes, the impact of the changes on daily functioning, and practical interventions on managing the young substance user in current society norms.

- - **Length of presentation is 75 minutes**

- - **Title and three objectives**

• Impact on SUD on Adolescent Neurological Development and What We Can Do About It?

- - Objective 1: Review neurological impact of substance use disorder on adolescent brain development.

- - Objective 2: Discuss impact of these neurological and developmental changes on youth daily functioning cognitively, socially, and emotionally.

- - Objective 3: Review practical interventions for healthcare providers, law enforcement, and first responders on managing the young person with SUD in modern times.

Reference Articles:

• *Alcohol and Drug Use and the Developing Brain;* Squeglia LM, Gray KM. Curt Psychiatry Rep. 2016 May; 18(5):46.

• *Sources of Social Influence on Adolescents Alcohol Use;* Wesche R, Kreager DA, Lefkowitz ES. Journal of research on adolescence : the official journal of the Society for Research on Adolescence. 2018 Jul 28;10.1111/jora.12439

• *The Influence of Substance Use on Adolescent Brain Development* Bava S, Tapert SF. Neuropsychol Rev. 2010 Dec; 20(4):398-413. Epub 2010 Oct 19.

BIO

Brandy Klingman has been a healthcare provider of mental health and substance abuse for over 15 years. She has trained and certified in several clinical interventions and now serves as clinical supervisor and advisor to 5 different Universities and over 10 different Educational Departments including LSU, University of New Orleans, and Southeastern Louisiana University's graduates and doctoral departments. She is proud to be an owner of a behavioral health center for over 8 years and serve as CEO to STC Addiction Wellness. She is proud to have started the first adolescent freestanding Mental Health and Substance Use Partial Hospitalization Program in Louisiana. Ms Klingman is a well known mental healthcare consultant nationally and most recently has begun international consulting work to improve behavioral healthcare around the world through collaborative educational outreach. She is a member and presenter of the Louisiana Group Psychotherapy Association, American Group Psychotherapy Association, Louisiana Learning Disability Coalition, GBR Opioid Task Force and many more.