Men and Women from the STRIDE Clinical Trial: An Assessment of Stimulant Use Severity at Residential Treatment Entry

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**Introduction**

Severe stimulant abstinence symptoms have been shown to predict early substance abuse treatment termination (Mulvaney et al., 1999; Kampman et. al., 2001). The current study explored gender specific factors associated with addiction severity, craving, and abstinence symptoms in a residential treatment seeking sample.

**Methods**

Stimulant abusing or dependent participants were enrolled in the NIDA Clinical Trials Network’s Stimulant Reduction Intervention using Dosed Exercise (STRIDE) trial. Recruitment and randomization occurred during residential treatment at 9 geographically diverse U.S. sites. Participants volunteered and were medically cleared for exercise. Full details about the protocol are published in Trivedi et al., 2011.

This secondary analysis included data collected at baseline, on average M = 11.75 (SD = 5.6) days from treatment admission. Women represented 40.1% (men n=181; women n=121) of participants.

Addiction Severity was measured by the Addiction Severity Index-Lite (ASI-Lite), Stimulant Craving Questionnaire-Brief (STCQ-Brief), and Stimulant Selective Severity Assessment (SSSA; domains of abstinence symptoms included craving, mood, appetite, sleep, energy, pulse rate, and irritability). Substance Use was measured by the Timeline Followback (TLFB) in the 30 days prior to treatment admission. Drug Use and Psychiatric Disorders were based on DSM-IV criteria.

Bivariate tests by gender included chi-square and t tests. A multivariate linear regression model tested demographics, substance use, and co-morbid drug use and psychiatric disorders as predictors for stimulant abstinence symptoms severity. Modelled variables were p < .05 in bivariate tests.

**Results**

- On demographic variables, women were younger than men, 35.67 (SD = 9.9) versus 41.17 (SD = 10.8) years, and more likely to be Hispanic, 17.36% versus 5.52%, p's < .001.
- Men were more likely to have a high school degree or more education (86.19% versus 74.38%, p = .023) and to be employed (39.23% versus 19.83%) and African American (51.93% versus 29.75%), p's < .001.

**Discussion**

Women reported greater addiction severity problems in employment, family/social, and psychiatric domains compared to men. This is consistent with other studies involving stimulant use disorder treatment samples (Najavits & Lester, 2008; Cohen et al., 2007). More severe abstinence symptoms in women than men appear to be associated with anxiety-related symptoms (e.g., anxiety, tension, difficulty concentrating, irritability, and panic disorder) and to be correlated with race/ethnicity. It is unknown if anxiety associated with stimulant abstinence affects treatment attrition. Given women are reported to have a similar or better response to treatment for stimulants than men (Wong et al., 2002; Dluzen & Liu, 2008), and that results may be limited to a medically fit-for-exercise treatment sample. Interventions that address gender related abstinence may improve treatment.

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