

**ISSUES OF SUBSTANCE 2009**  
CANADIAN CENTRE ON SUBSTANCE ABUSE NATIONAL CONFERENCE  
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**Presentation Abstract**

**Presentation title:**

Statistical Issues in a Meta-analysis of Studies of Integrated Treatment Programs for Women with Substance Use Problems and Their Children.

**Presenter:**

Jennifer Liu

*Jennifer Liu graduated from McMaster University in 2008 with a Master of Science degree in Statistics and is currently a Data Analyst at Cancer Care Ontario.*

**Presentation abstract:**

We conducted a meta-analysis to evaluate the effectiveness of integrated treatment programs for women with substance use issues and their children. This presentation will address some of the statistical issues we encountered, including varying study quality and heterogeneity in outcome measures, study design, and timing of assessments. We discuss the use of the p-value method to combine studies using different measures of treatment effect, the impact of study quality weighting on effects of integrated treatment programs, and sensitivity analysis of correlation coefficients on combined estimates as a method for handling missing data. A summary of findings from the analysis will be presented as well as key limitations and implications for clinical practice and future research. Group discussion will be encouraged and facilitated.