Study Title: Social Networks and Methadone Maintenance Treatment Retention and Antiretroviral Therapy Retention in Tanzania

Document: Statistical Analysis Plan (ID: IRB00019420)

NCT number: NCT04479475

Document date: 8/11/2025

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Study Title: Adaptation and Pilot of a Social Network Intervention to Improve Retention in Medication-Assisted Treatment for Opioid Use Disorder in Tanzania

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Data Analysis Plan

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I. **Descriptive Analyses**
   a. Baseline characteristics
      i. Summarize participant demographics (age, gender, education, housing status, employment status, etc.)
      ii. Describe baseline clinical characteristics (confirmed HIV status, methadone dosage, missed methadone doses in the past 30 days, ART refills in the past 6 months (for participants with confirmed HIV-positive status)
      iii. Statistics: Means (SD) and medians (IQR) for continuous variables, counts and percentages for categorical variables

II. **Primary outcomes: Acceptability and Feasibility**
      i. Intervention completion rates and individual session attendance for enrolled MMT clients and social support persons. Number of participants lost to follow-up or number who voluntarily withdrew from the study.
      ii. Content or thematic analysis of implementation facilitators and barriers/challenges, including any protocol deviations, as reported in follow-up, qualitative interviews with participants and intervention counselors, as well as in supervision meetings throughout the intervention implementation period.
      iii. Reported fidelity from intervention counselors, as reported in supervision meetings throughout the intervention implementation period, as well as in follow-up, qualitative interviews with counselors.

III. **Secondary outcomes: Missed Methadone Doses and ART refills**
   a. Secondary outcomes will be assessed for MMT client participants only.
   b. *Change in missed methadone doses in the past 30 days*: Use the Wilcoxon signed-rank test to compare the number of missed methadone doses at baseline and follow-up. Report the median differences, mean differences for changes in missed doses, and the exact p-value.
   c. *Change in pharmacy ART refills in the past 6 months* (HIV-positive participants only): Conduct cross-tabulation to compare ART refill status at baseline and follow-up. Use McNemar's test to examine changes in refill status across the two time points. Report the proportions of participants refilling ART, the odds ratio, and the exact p-value.