Recovery After an Initial Schizophrenia Episode (RAISE)

Impact Evaluation Study

Background

- A gap in our knowledge of system integration strategies was identified that led to the need to conduct a study of how to integrate an early intervention program into an existing service system.
- Study emphasis is not an effectiveness evaluation of the intervention, but an Impact Evaluation Study (IES).
- The IES will use the intervention model developed to identify strategies to facilitate the implementation of team-based care for first episode psychosis (FEP) within the U.S. healthcare system.

RAISE-IES Specific Aims (1):

 To adapt and evaluate the *impact* of a comprehensive and integrated treatment intervention for FEP to be delivered in real-world practice settings to promote symptomatic recovery, minimize disability, and maximize social, academic, and vocational functioning.

RAISE-IES Specific Aims (2):

- To gather information on how well the early intervention program works within participating sites, e.g.,
 - the success of referral networks and recruitment activities;
 - the extent to which providers accept specialized training and supervision;
 - whether administrative support of program activities are maintained over time

RAISE-IES Specific Aims (3):

 To delineate and develop the manuals, checklists and quality indicators necessary to establish first episode psychosis treatment programs within real-world service systems, as well as determine effective strategies for the engagement and retention of individuals with FEP into long-term treatment.

Deliverables Overview

- Specific Aims
 - The treatment package itself
 - has been delivered to NIMH.
 - Experiences of Implementation
 - Case Study Reports ("What we did")
 - Tools necessary to "embed the multi-component intervention within real-world delivery systems" ("What we learned")
 - Turn-key manuals
 - Barriers
 - Financing

Sources of "Data"

- Recruitment/Outreach Database: NY and MD recruitment staff collected detailed data on all calls and inquiries
- Impact Study (Quantitative Data): Participant interviews were conducted at Baseline, 3, 6, 12, 18 and 24 months
- Qualitative Study: Interviews of participants, family members, clinicians, administrative staff, and referrers
- Clinical Materials/Manuals

Assessment and Follow-up Rates

Schedule	Total Anticipated	Total Completed	Number Missed	Not in Window or Being Scheduled	% Follow Up
Baseline	60	60	0	0	100% (60/60)
3-Month	59	55	1	3	98% (55/56)
6-Month	58	49	2	7	96% (49/51)
12-Month	54	21	6	27	78% (21/27)
18-Month	51	6	2	43	75% (6/8)
24-Month	23	0	2	21	0% (0/2)

Statistical Analysis Plan for RAISE Connection Program

Overview

- "Quantitative" data and collection schedule
- Preliminary analysis
 - Data quality check; Descriptive statistics; Checking distributional and linearity assumptions
- Primary outcome data analysis
 - Longitudinal data analysis to assess improvement over time
- Service utilization and engagement
- Secondary data analyses
 - Secondary outcome measures
 - Moderator and mediator
 - Fidelity data

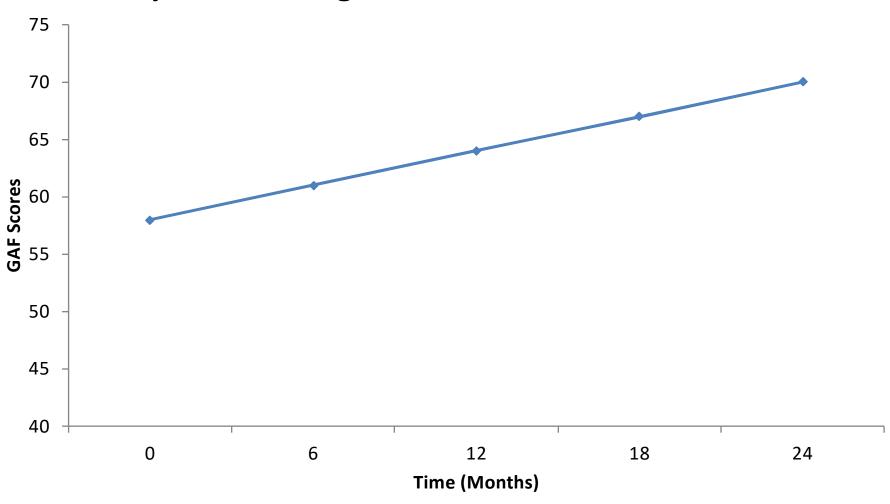
Primary Outcome Data Analyses

- Primary outcomes
 - MIRECC GAF scores
 - PANSS scores
 - Total months of remission

- Longitudinal analysis using all interim data
 - Five assessments (baseline, 6 month, 1 year, 18 month, 2 year)

Primary Outcome Data Analyses

Expected Change Over Time of MIRECC GAF



Service Utilization and Engagement

- Frequency distributions of services received
 - RAISE services report for each participant quarterly (chart review)
 - Non-RAISE services from self-report
- Hospitalization and ER visits from self report
 - Total number of hospitalizations
 - Total number of ER visits

Secondary Outcome Measures

Clinical Global Improvement (CGI)

Participation in the work force

Education

Other

Secondary Data Analyses: Moderator

- Hypothesized moderators (baseline pre-treatment measures)
 - Duration of psychosis
 - Age
 - Premorbid adjustment scale
 - Baseline cognitive battery
 - Prior hospitalization
 - Family interaction
 - Negative symptom subscale from PANSS
- Moderator analysis: test for time by moderator interaction

Secondary Data Analyses: Mediator

- Hypothesized mediators (post-treatment measures)
 - Fidelity (overall and specific component)
 - Engagement
 - Service utilization
 - Client satisfaction
 - Service-related recovery
- Mediator analysis
 - Test for significant indirect treatment effect through a candidate mediator

Fidelity as Mediator

- Fidelity components
 - Core Fidelity (e.g., staffing over time)
 - Psychopharmacology Intervention Fidelity (e.g., % on antipsychotic over time)
 - IPS Fidelity (e.g., % employed or in school over time)
 - Family Intervention Fidelity (e.g., family groups over time)
 - Team Recovery Coach Fidelity (e.g., substance use sessions over time)

Proposed Engagement Measures: Service Utilization

Engagement as treatment participation (low threshold)

 Individuals with at least one visit in each <u>three-month interval</u> will be considered engaged during that interval.

Engagement as treatment participation (higher threshold)

• Individuals with at least one visit in each <u>one-month interval</u> will be considered engaged during that interval.

Engagement as treatment participation with <u>team</u> (low threshold)

 Individuals with at least one visit in each three-month interval to at least three of four team members will be considered engaged with the team during that interval

Engagement as treatment participation with team (higher threshold)

 Individuals with at least one visit in each one-month interval to at least three of four team members will be considered engaged with the team during that interval

Proposed Engagement Measures: Other

Overall satisfaction with services

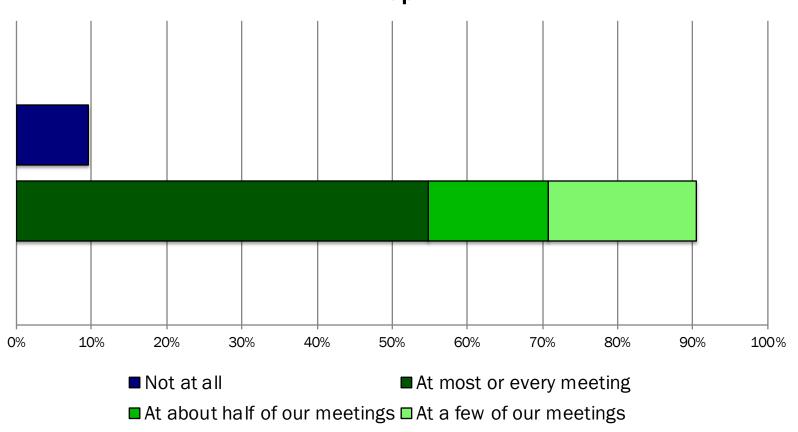
Recovery orientation of services

 Given the potential importance of medication in preventing relapse, medication adherence could be viewed as a proxy for engagement.

Engagement and Fidelity Measure Examples

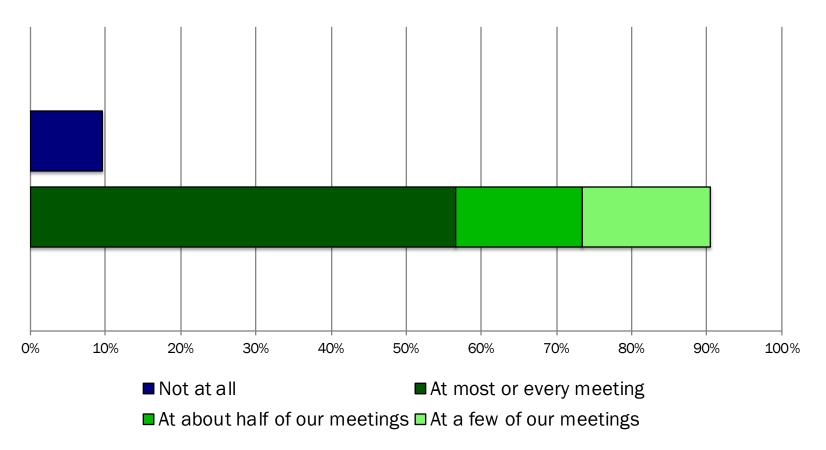
When you meet with your Connection Team psychiatrist...

...how often does the topic of medication side effects come up?

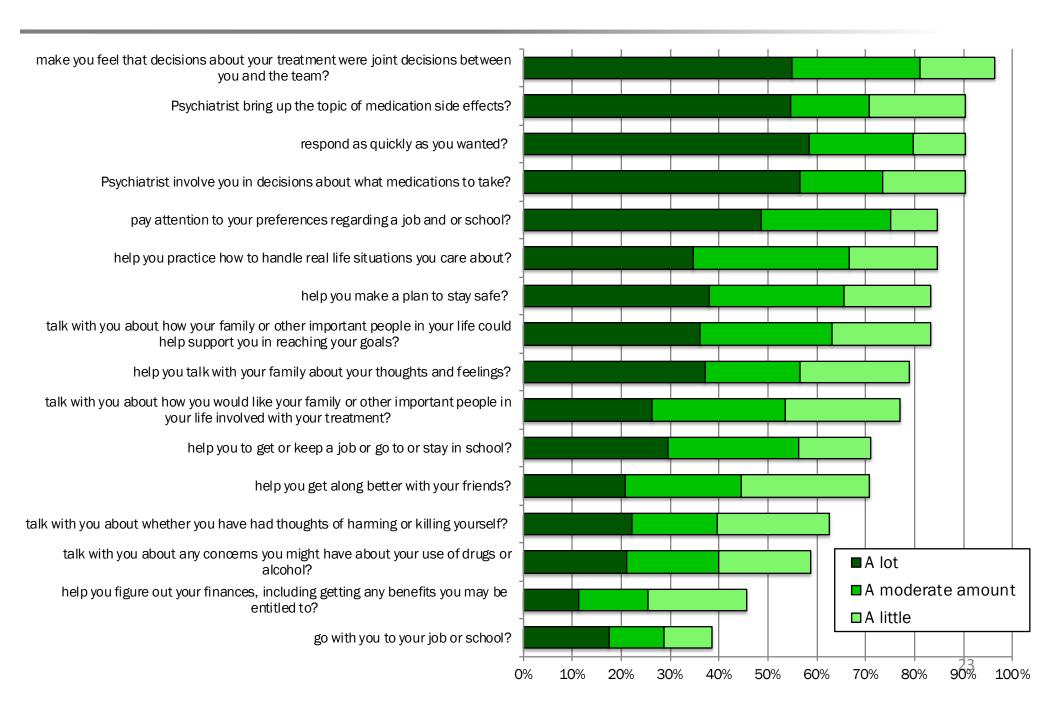


When you meet with your Connection Team psychiatrist...

...how often does your psychiatrist involve you in decisions about what medications to take?



In the past month, how much did your Connection Team...



In the past month, how much did your Connection Team...

