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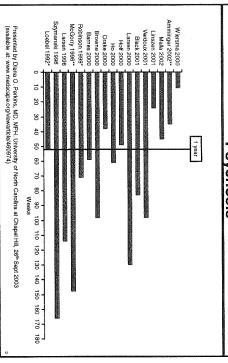
RAISE

A Research Project of the New H

Early Treatment Program

John M. Kane, M.D.
Principal Investigator, RAISE Early Treatment Program
Chairman of Psychiatry
The Zucker Hillside Hospital/Hofstra University

Reported Mean Duration of Untreated Psychosis



John M. Kane Disclosures 2015

Dr. Kane has been a consultant for Alkermes, Eli Lilly, EnVivo Pharmaceuticals (Forum), Forest, Genentech, H. Lundbeck. Intracellular Therapeutics, Janssen Pharmaceutica, Johnson and Johnson, Otsuka, Reviva, Roche and Sunovion

Dr. Kane has received honoraria for lectures from Janssen, Genentech, Lundbeck and Otsuka

Dr. Kane is a Shareholder in MedAvante, Inc. and Vanguard Research Group

Implications of Delayed Treatment

- Greater decrease in functioning
- Loss of educational opportunities
- Impaired psychosocial and vocational development
- Personal suffering/family burdens
- Potential poorer response once treatment is provided
- Greater costs

A Systematic Review and Meta-analysis of Recovery in Schizophrenia

Erlia Jääskelühen²⁴⁸, Paniina Juola), Noora Eifruner¹², John J. McGartt², Maanta Saha², Matti Bohann! Jatha Veijoh³, and Jeodo Mietuner^{3,56}

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Conclusions:

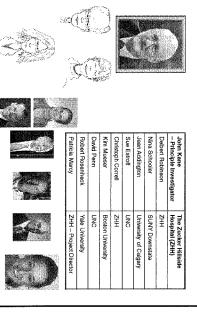
individuals with schizophrenia met our criteria for recovery. Based on the best available data, approximately, 1 in 7 Despite major changes in treatment options in recent

decades, the proportion of recovered cases has not

increased

Jääskeläinen et al. Schizophr Bull 2013;39(6):1296–1306

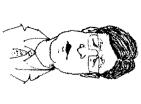
RAISE-ETP: Executive Committee



Timeline

- NIMH Issues Request for Proposals June 2008
- 2009) Contract Awarded July 2009 (bolstered by funds from the American Recovery and Reinvestment Act of
- **Enrollment Begins July 2010**
- Enrollment Ends July 2012
- Last Patient In Reaches Two Years July 2014

Principal NIMH Collaborators



- Susan Azrin Robert Heinssen
- Amy Goldstein





Specified Aims of RAISE

- Develop a comprehensive and integrated intervention to
- Promote symptomatic recovery
- Minimise disability
- Maximise social, academic, and vocational functioning
- current funding mechanisms Be capable of being delivered in real-world settings utilising
- Assess the overall clinical impact and cost-effectiveness of the intervention as compared to currently prevailing treatment approaches
- Conduct the comparison in non-academic, real-world community treatment settings in the United States

on my dreams. Tread softly because you tread

W.B. Yeats

RAISE Trial Design: Subjects

- Sample size: 404
- l Age 15-40
- The following diagnoses are included in the differential
- schizophreniform disorder
- schizoaffective disorder

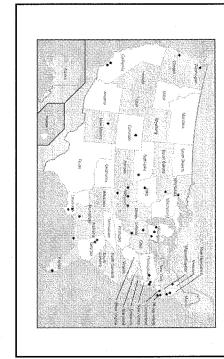
-schizophrenia

- psychotic disorder NOS
- brief psychotic disorder
- Less than six months of treatment with antipsychotic medications

Randomized Controlled Trial (RCT)

- RCT to compare
- NAVIGATE experimental intervention
- in the United States Community Care - treatment as offered in local clinics
- Cluster/site randomization of 34 sites in 21 states
- Two-year treatment period
- Assessment model includes
- On-site recruitment, engagement and retention
- Remote assessors of primary and secondary clinical

Conduct the Comparison in Non-academic, United States Community Treatment Settings ETP Sites are in 21 US Contiguous States



Addressing the Problem of Masking Assessments

- Rigorous RCTs demand unbiased and therefore masked or blinded assessment
- Masked Assessors at the site
- Requires training of many assessors and insuring reliability over time
- Needs oversight to insure masking is maintained
- Masked, remote assessors
- Clinical evaluators trained to determine diagnosis and evaluate symptoms and functional status
- Insures that assessments are consistent across sites and treatment condition
- Masked to which sites are in which treatment condition and what treatment participants are receiving
- Participants are interviewed over live and secure two-way video connection

RAISE-ETP Study Design with Cluster/Site Randomization RAISE-ETP NAVIGATE n = 404 COMMUNITY T7 sites n = 181

RAISE Trial: Outcomes

- Primary outcome measure: Quality of Life scale
- Primary hypothesis
- RAISE intervention compared to community care will improve Quality of Life
- Other measured outcomes
- Service utilization
- Cost
- Consumer perception
- Prevention of relapse
- Enhanced recovery

Navigate

- Team based

- Supported employment/education

Four components Psychopharmacology – COMPASS Shared decision-makingStrength & resiliency focus Family psychoeducation Individual Resiliency Training (IRT) Motivational enhancement teaching skills Collaboration with natural supports Psychoeducational teaching skills

Patient Visit Flow Diagram

Section finalities will on the Finalising Up screen & completes the citic

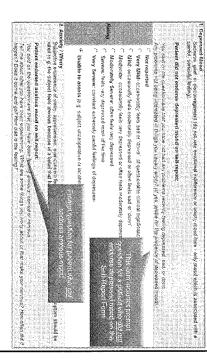
COMPASS

choice within a shared decision making framework. A computer decision support system to facilitate patient provider communication and medication

A Web-Based application available on Desktops, Laptops or iPAD

Conce your issuess. Itsee you know moting land year their steel to the 155 month? Here you cat problems knoping up with the 15 yets select to 40 transf. Botto, stateed to bleeter? RAISE Patient Self Report Form ²⁷ Yas, Etian Brandiding analysis, intgry orminates ** Yes, I have been hidding about desir si I have be a state of the characterior devices anxious " Yes, I have had protents ** Yes, Lesses this degree and , said to down F May 1 houself thank and problems " No., I open out breen feature gratered, scopy on woomfol " Nit, I have not have having patholically good No. I have not been feeling announ, would be App. (leaves myst been discolony about do allo word) have and a would do better oil do an Self Report Curvitons THE STATE OF Susmers

Clinician Rated Form Includes Information From Patient Self-Rated Form On Corresponding Items And **Adjusts The Prompt Questions Accordingly**



Adjusted for Cluster Design Demographics

Age and Gender			
Age (mean)	23.5	23.2	
Males (%)	77.6	66.2	.05
Race			
White (%)	65.9	49.9	
African American (%)	25.4	44.1	
Other (%)	8.7	6.0	
Role Functioning			
In school (%)	14.9	25.5	.03
Working (%)	12.6	16.6	
Prior Hospitalization (%)	78.9	918	20

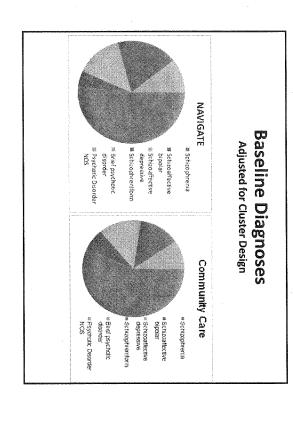
Clients' Baseline Characteristics

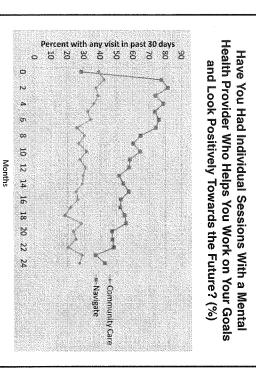
RAISE ETP Demographics – RACE (p<0.0001)

NAVIGATE

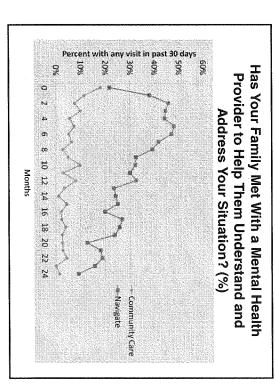
COMMUNITY CARE

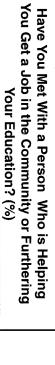


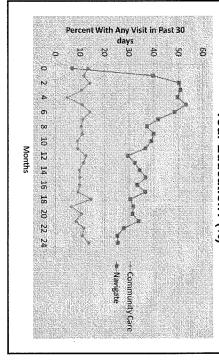










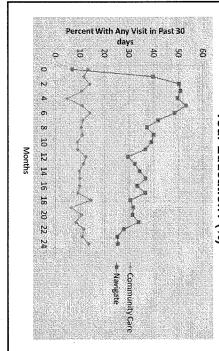


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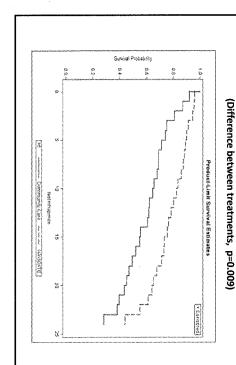
----Navigate

Community Care

Months

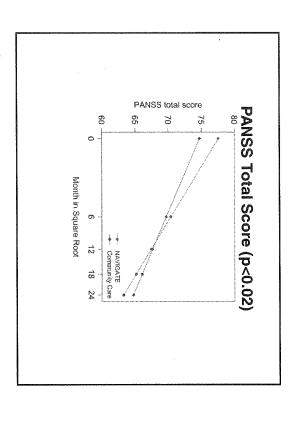


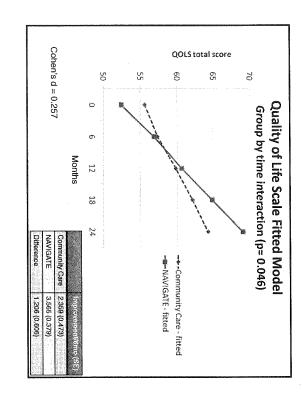
NAVIGATE Participants Stayed in Treatment Longer Time to Last Mental Health Visit

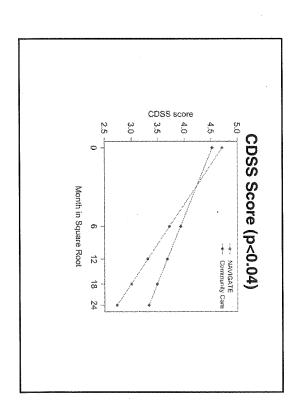


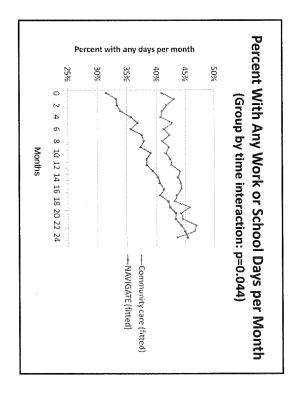
Major Study Outcomes

Were You Asked to Record Your Symptoms and Side Effects Before You Met With Your Psychiatrist or Nurse Practitioner? (% among responders: 44% in 100.00% CC, 65% in N)

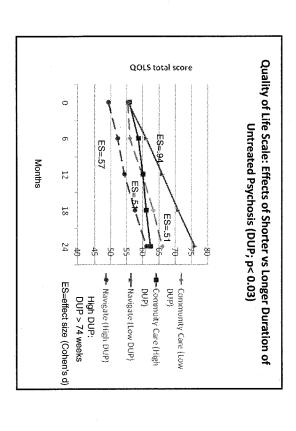


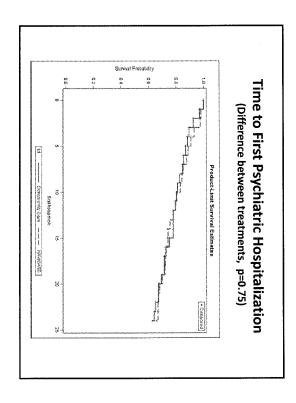




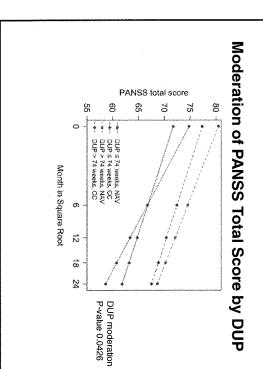


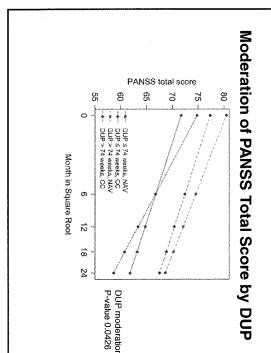






Predictors of Outcome





Acknowledgements

We are grateful to all of our core collaborators and consultants

We thank and acknowledge the terrific work of many clinicians, research assistants and administrators at the participating sites.

We are very grateful for the participation of the hundreds of patients and families who made the study possible with their time, trust and commitment.

Community Mental Height Center of Lancaster County
Clinicon-Eaton-Ingham Community Mental Health Authority
North Point Health and Wellness
Park Center
PeaceHealth Oregon
Pine Bell Mental Health Center
The Providence Center
River Parish Mental Health Center
River Parish Mental Health Center
St. Clare's Hospital
South Shore Mental Health Center
Genery Street Health Services
United Services
United Services
Center for Rural and Community Behavior
Health New Mexico
Staten Island University Hospital

With Thanks to Our 34 Sites: Clinicians and Participants

Burrell Behavioral Health-Springfield
Burrell Behavioral Health-Cokumbia
Catholic Social Services of
Washtenaw County (CSSW)
Cobb County
Places for People
Community Mental Health Center, Inc.
Eyerly Ball
Grady Health System
Grader Nashua Mental Health Center
@ Community Council
Henderson Behavioral Health
Howard Center
Human Development Center
Lehigh Valley Hospital
Life Management Center of Northwest
Florida
Mental Health Center of Denver
The Mental Health Center of Greater

Conclusions

- Recipients of NAVIGATE were significantly more likely to remain in treatment and experienced significantly greater improvement in the primary outcome measure (i.e., quality of life).
- They were more likely to be working or going to school.
- NAVIGATE participants showed a significantly greater degree of symptom improvement on PANSS and CDSS.
- DUP appears to be an important moderator of NAVIGATE effectiveness.
- These results show that a coordinated specialty care model can be implemented in a diverse range of community clinics and that the quality of life of first episode patients can be improved.

Hospitalization Rates in Controlled Trials of Comprehensive Care in FE Individuals
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OPUS (year 2) (5)	OPUS (year 1) (4)	LEO (3)	STEP (2)	RAISE-ETP (1)	Study	
13-24 months	1-12 months	15 months	12 months	24 months	Length of Trx	
26%	59%	33%	23%	34%	Experimental Intervention	Hospitalization Bates During Follow-I In
39%	71%	51%	44%	37%	TAU	a Follow-l in