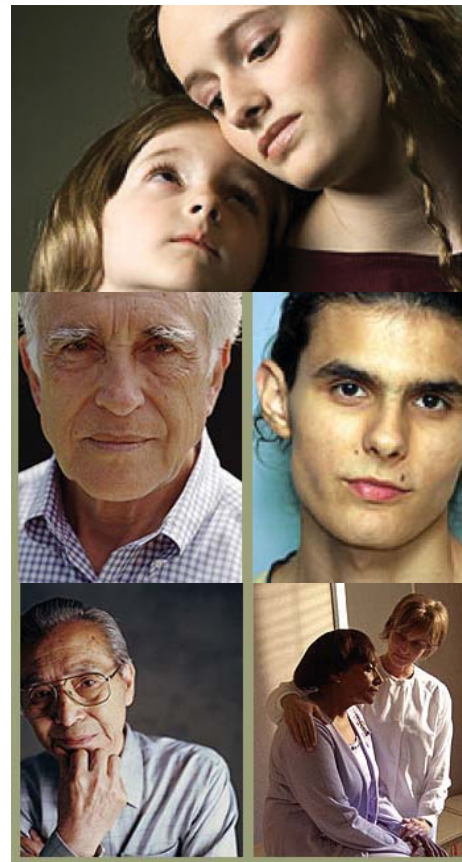


Clinical and Residential Outcomes from a Cohort of Riverview Hospital Patients Impacted by the Redevelopment of Tertiary Psychiatric Care in British Columbia

Karen Petersen
Tonia Nicholls
David Groden
Elliot Goldner
Alain Lesage



BC Mental Health &
Addiction Services

An agency of the Provincial Health Services Authority

Tertiary Services in British Columbia

- **Psychiatric services have been undergoing reorganization and redevelopment since the 1960s.**
- **Riverview Hospital (RVH), BC's only large scale tertiary care psychiatric hospital, underwent downsizing from approximately 4,000 beds in the early 1960s to approximately 500 beds in the early 1990s (Morrow et al., 2008).**



RVH

Riverview Hospital Redevelopment

- **The current phase of RVH Redevelopment, which began in 2002, focuses on developing regionalized capacity to treat the most severely mentally ill and some of the most difficult to place patients in the province.**
- **BC is developing Regionalized Tertiary Psychiatric Residential Facilities (TPRFs); small, home-like facilities, providing intensive long-term treatment and rehabilitation toward recovery.**

Cypress TPRF



Research

- **2001 – 2004**
 - Dr. Alain Lesage

- **2005 – present**
 - Dr. Tonia Nicholls
 - Pathways Study

Hillside Tertiary Psychiatric Facility



The First Study

Lesage Data



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Method

- **A naturalistic, quasi-experimental design, comparing measurements across multiple time points.**
- **Data sources:**
 - files
 - interviews with patients
 - interviews with staff
- **Baseline data collection was conducted at RVH.**
- **Follow-ups: repeated annually in the location of subject's residence.**



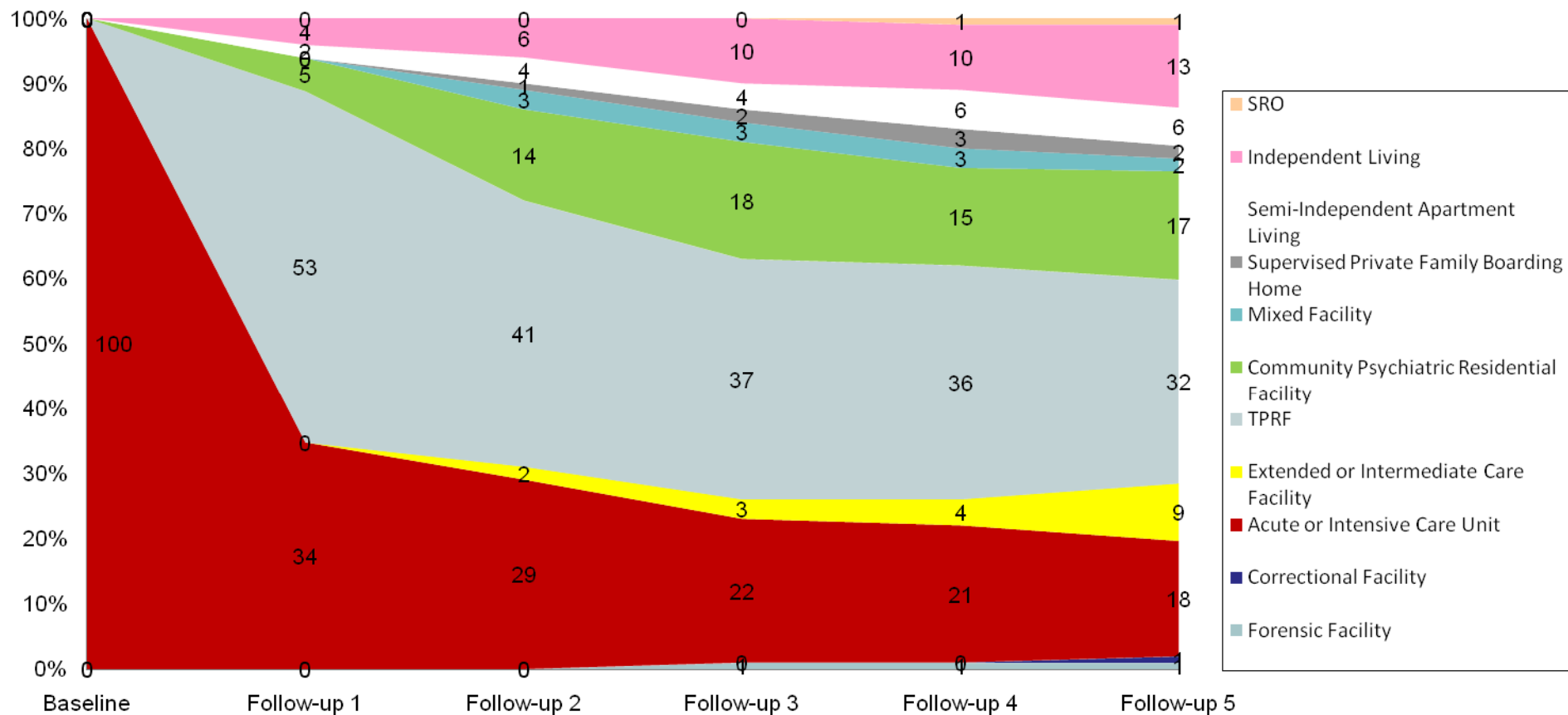
Baseline Participant Characteristics

Characteristics	Number	Percentage
Gender		
Men	114	60.3
Age		
Mean (SD)	47.28 (11.51)	
Ethnicity		
Caucasian	163	86.2
Other	26	13.8
Education		
Not Completed High School	135	71.5
Diagnosis		
Schizophrenia Spectrum	151	79.9
Employment		
No Employment History	147	77.8
Legal Status		
Involuntary	154	81.5



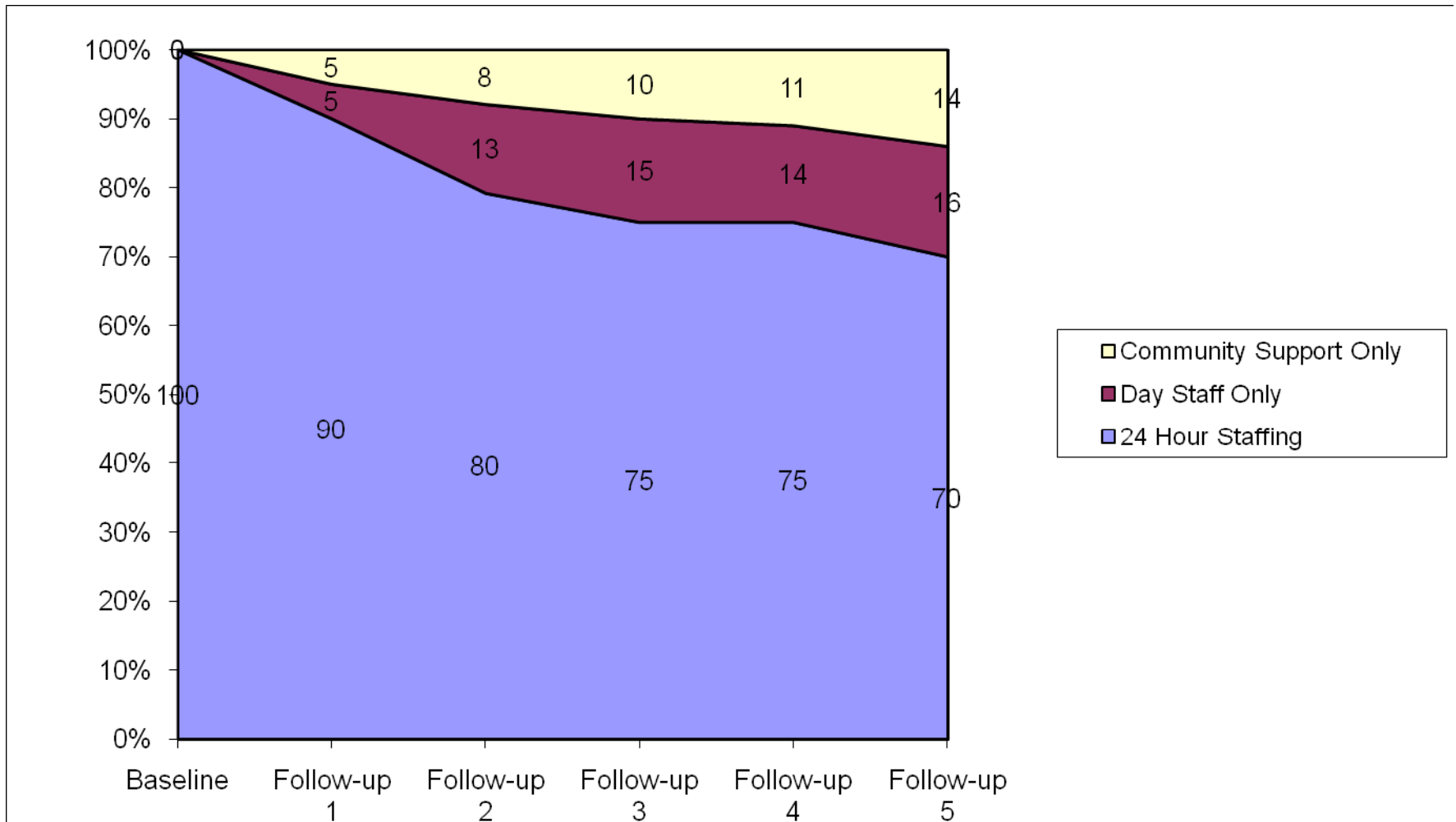
Results: Participant Locations

Percentage of Participants at each Facility Type, Baseline – Follow-up 5



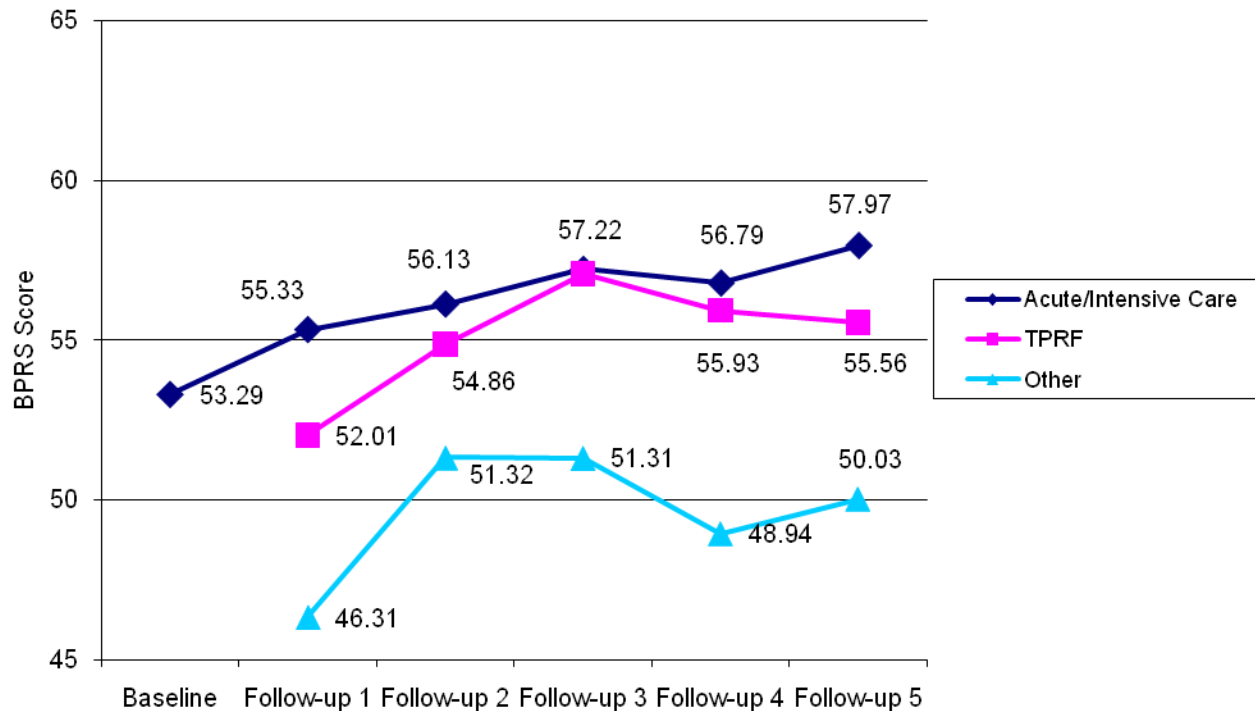
Results: Participant Locations

Percentage of Participants Receiving Different Levels of Support



Results: Clinical Findings

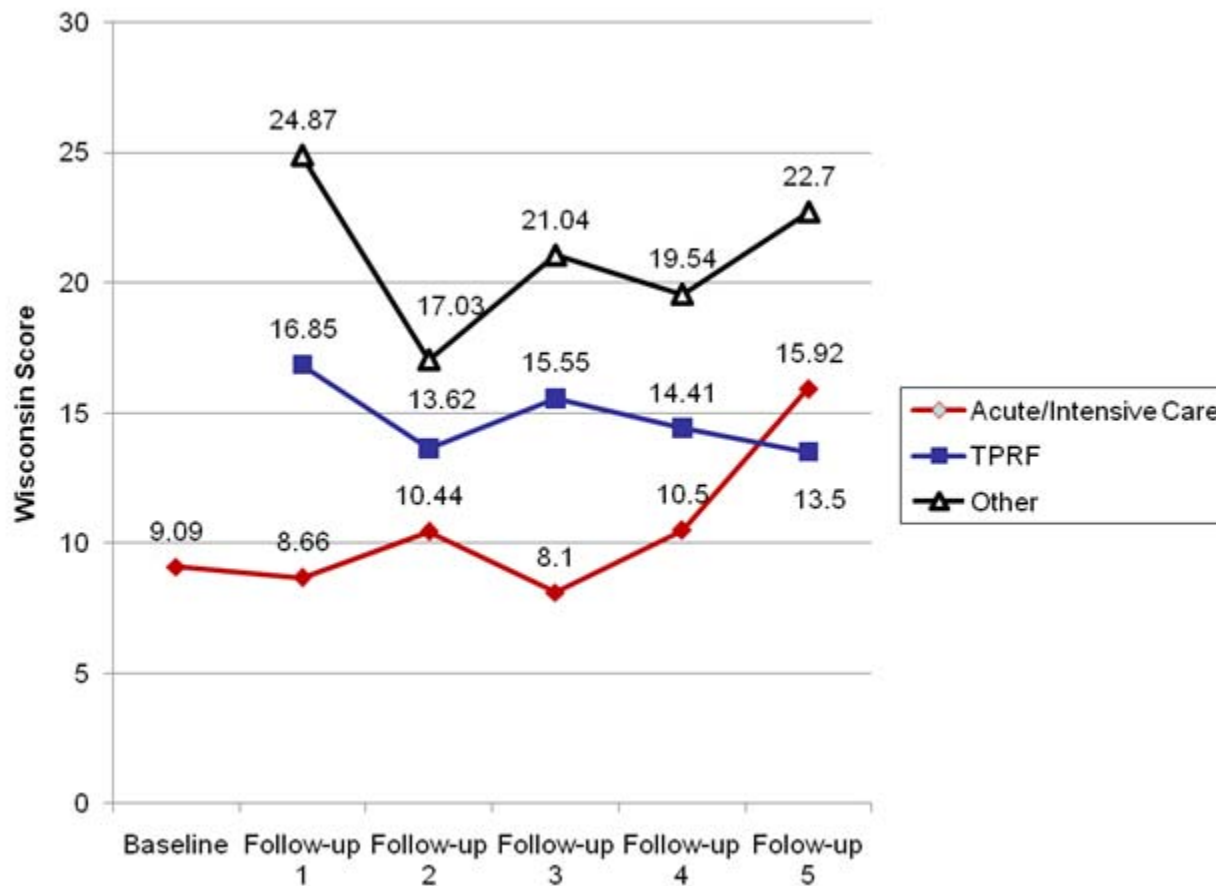
Brief Psychiatric Rating Scale



- BPRS
- Measures psychiatric symptoms
- 24 items
- Symptoms are rated from 1 (not present) – 7 (extremely severe)
- Scores range from 24 – 168
- Average score at baseline was 53

Results: Clinical Findings

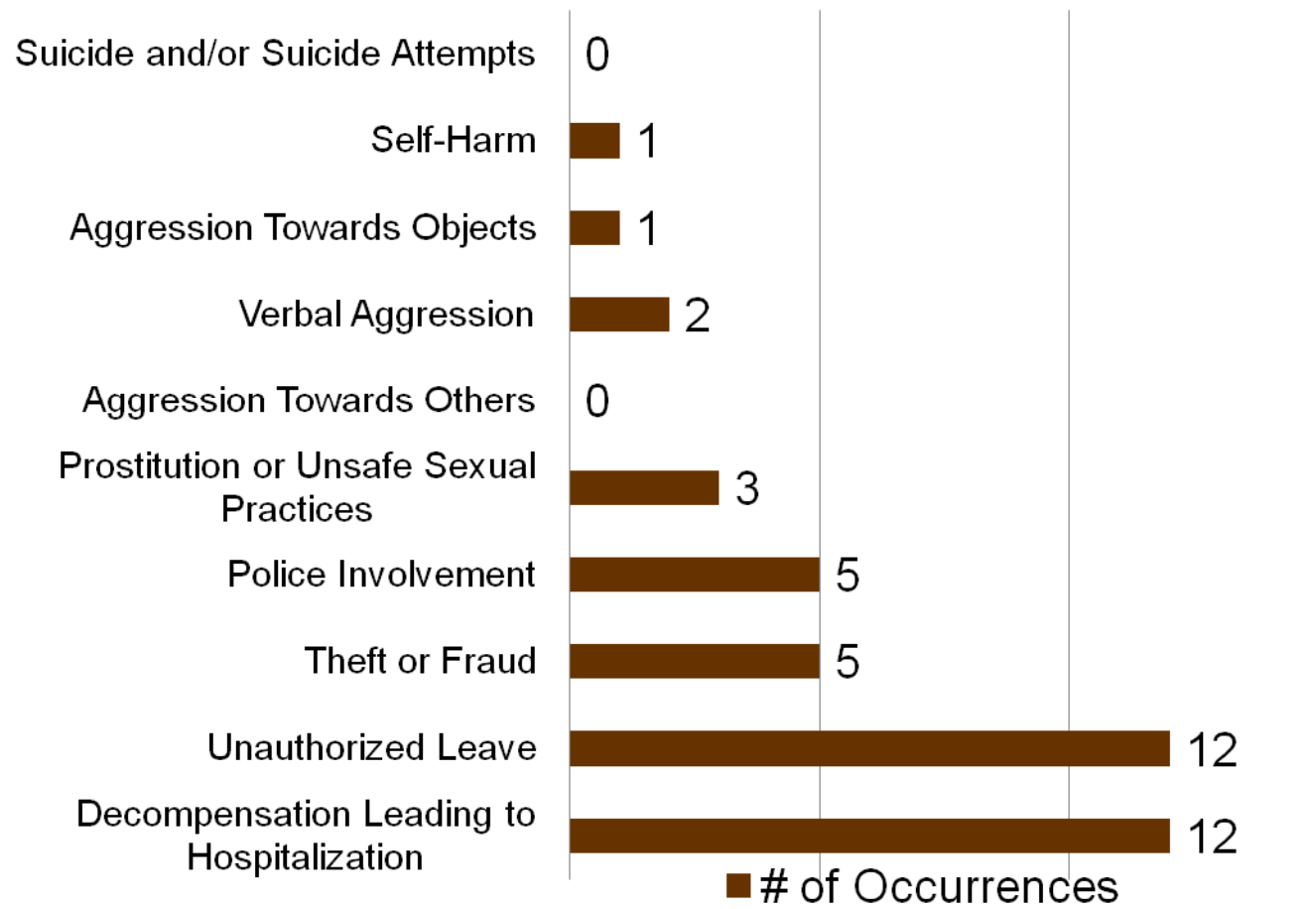
Wisconsin Quality of Life Index



- 16 items
- Rated from Very Dissatisfied (-3) to Very Satisfied (+3)
- Sample Question: How satisfied or dissatisfied are you with the food you eat?
- Scores range from -48 – +48
- Average score at baseline was 9.09

Results: Nature of Adverse Events

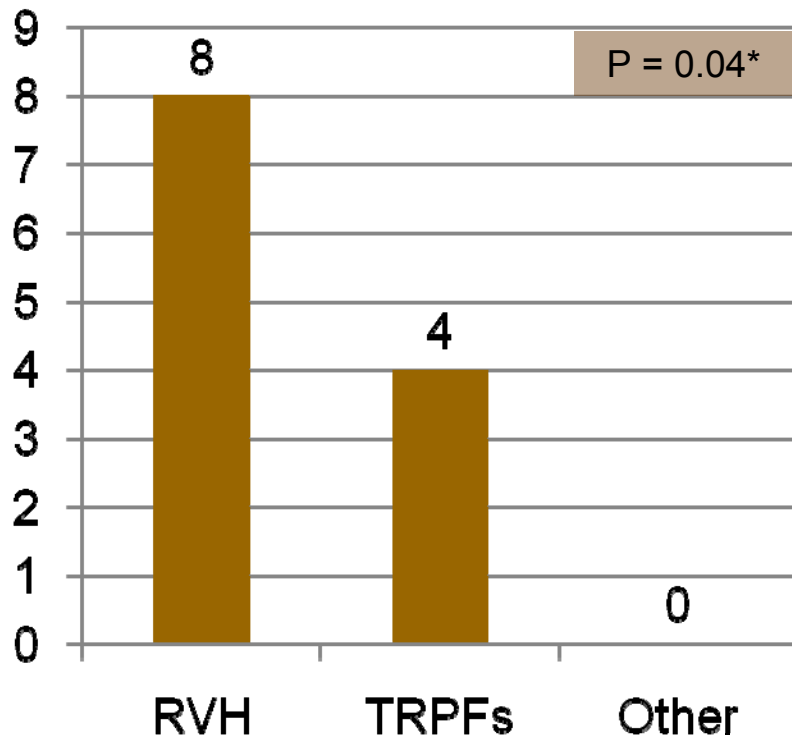
Adverse Event Category Prevalence During 1 Year Follow-up



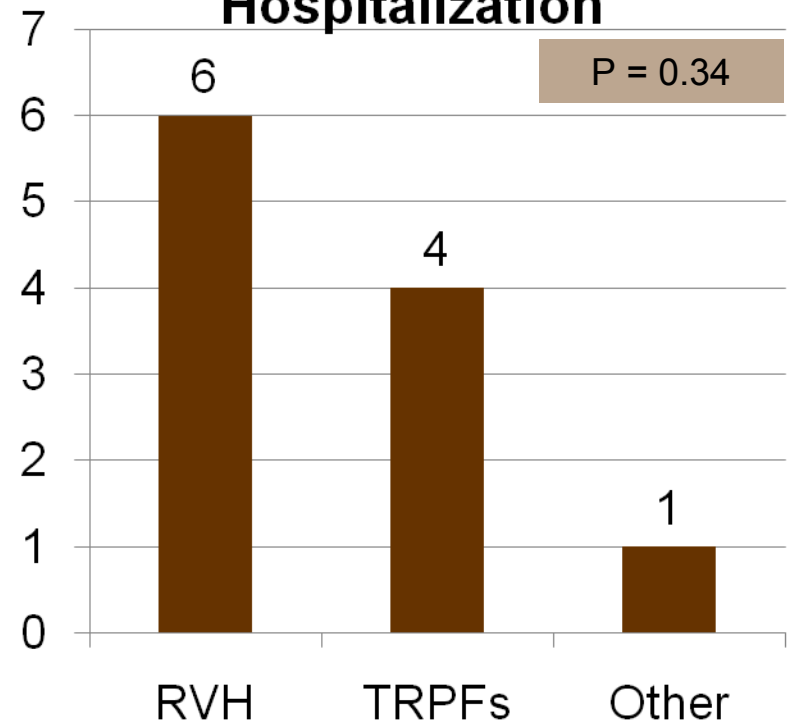
Results: Adverse Events

Comparison of the Two Most Frequent Adverse Events by Location

of Unauthorized Leaves



of Decompensations Leading to Hospitalization



The Second Study

- **A naturalistic, quasi-experimental design, comparing measurements across multiple time points.**
- **Data sources:**
 - files
 - interviews with patients
 - interviews with staff
 - Interviews with family / friends
- **Baseline data collection was conducted at RVH.**
- **Follow-ups: repeated every six months at the location of subject's residence.**



Progress to Date

- We have conducted:
 - 53 baseline
 - 43 follow- up 1
 - 32 follow-up 2
- We will conduct follow-up 3 at Langley Memorial Cottage in December.
- We will conduct follow-up 2 at Cypress, Cottonwood and Connelly in January.
- In November and December we will conduct baseline interviews with participants leaving RVH in early 2011.

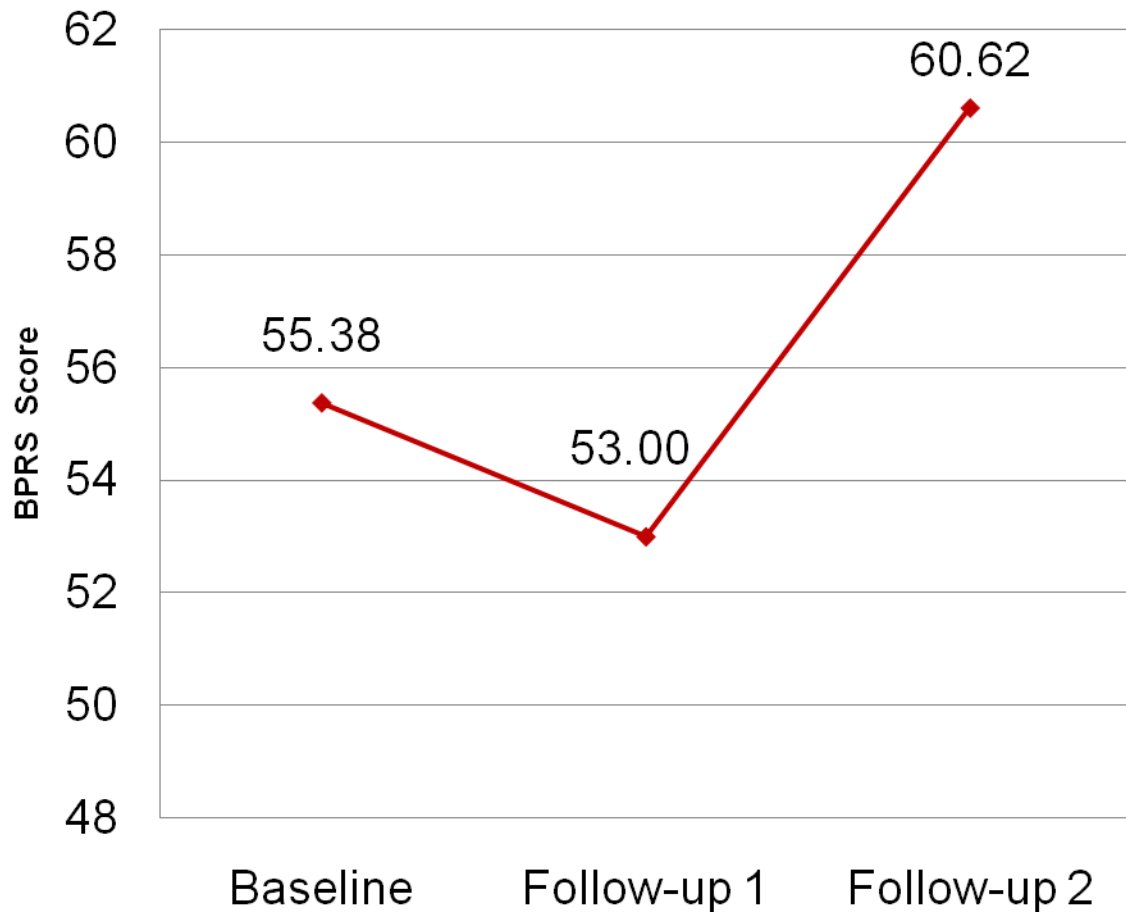
Baseline Participant Characteristics

Baseline Participant Characteristics

Characteristics	Number	Percentage
Gender		
Men	32	65.3 %
Age		
Mean (SD)	48.55 (9.84)	
Ethnicity		
Caucasian	46	93.9 %
Education		
≤ 8 th Grade	5	10.2 %
9 th – 11 th Grade	20	40.8 %
High School Completion	14	28.6 %
Some Post-Secondary	8	16.1 %
Unknown	2	4.1 %
Diagnosis		
Schizophrenia Spectrum	44	89.8 %
Employment		
Unemployed	44	93.6 %
Legal Status		
Involuntary	46	93.9 %

Results: Clinical Findings

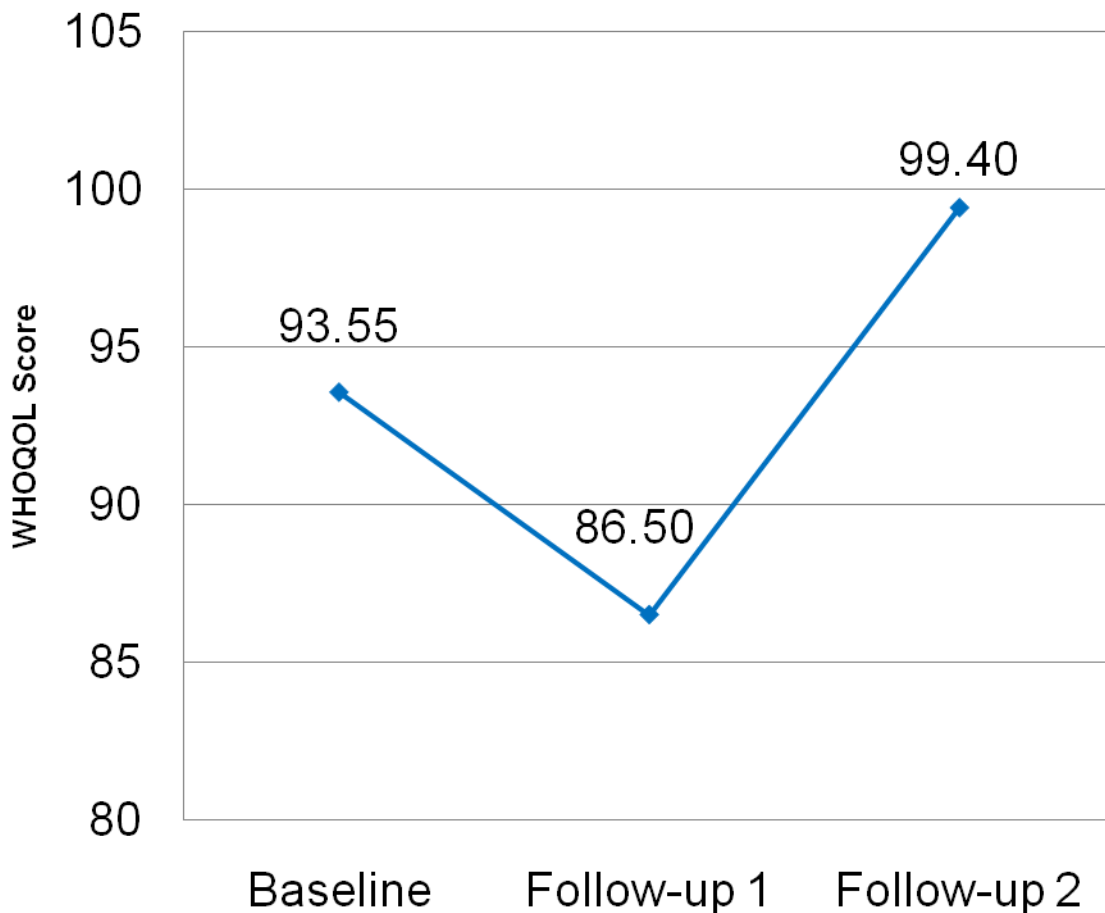
Brief Psychiatric Rating Scale



- BPRS
- Measures psychiatric symptoms
- 24 items
- Symptoms are rated from 1 (not present) – 7 (extremely severe)
- Scores range from 24 – 168
- Average score at baseline was 55

Results: Clinical Findings

World Health Organization Quality of Life Assessment



- 26 items
- Rated from 1 – 5 (very poor – very good, not at all – an extreme amount)
- Sample Question: How safe do you feel in your daily life?
- Scores range from 0 – 130

Conclusions

- **These findings are consistent with prior research that suggests that if patients are appropriately assessed and if the facilities they are moved to have service levels appropriate for their needs, the transition to community-based care can be a positive transition.**
- **These studies also provide support for the further movement away from psychiatric care provided in large centralized hospitals towards care provided in smaller community-based, intensive care facilities.**

RVH



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Thank – you !



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