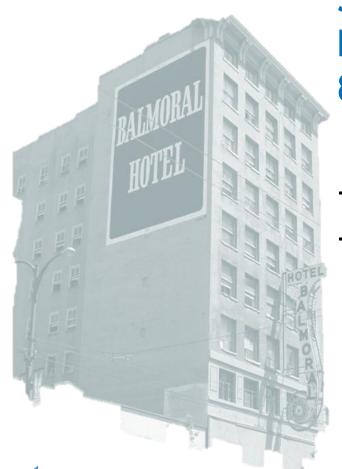
Mayor's Roundtable on Mental Health & Addictions Oct 2, 2013



Severely Addicted/Mentally III Population: What Do We Know & Potential Outcomes

- Dr. William Honer
- Dr. Michelle Patterson





a place of mind





Hotel study: Team, Supporters, Sponsors



- UBC: Drs. GW MacEwan, M Krausz, G Smith, F Vila-Rodriguez, R Procyshyn, W Panenka, A Barr, D Lang, T Vertinsky, H Wong, JJ Sidhu, T Buchanan, A Jones, V Strehlau, O Leonova
- BC Centre for Disease Control: Dr. M Krajden
- Centre for Excellence in HIV/AIDS: Dr. J Montaner
- Simon Fraser University: Dr. A Thornton, H Baitz, K Gicas, C Giesbrecht
- Imperial College, London: Dr. D Nutt







Hotel: protocol



- Recruit from SRO hotels
- Psychiatry: diagnosis, symptom severity, cognitive function
- Addictions: history of drug use, current use, high risk behaviour, urine testing
- Physical illness: neurological exam, MRI scan, virus testing, blood chemistry and hematology
- Longitudinal design: Monthly follow-up for 1-5 years: health, ability to access health care services, change in housing and ability to function

Hotel study n=293



- Housing
- Months in hotel median = 16, range 0-240
- Homelessness
- Experienced homelessness: 195/293 = 66.6%
- Time since homeless: median = 38 mon (0-452)
- "Asylum" care for mental illness
- Riverview (or similar care): 30/293 = 10.2%
- Jail
- Previously incarcerated: 71/293 = 24.2%
- Time in jail: median = 24 mon, range 0-240

Hotel study (n=293) SROs at 1-year

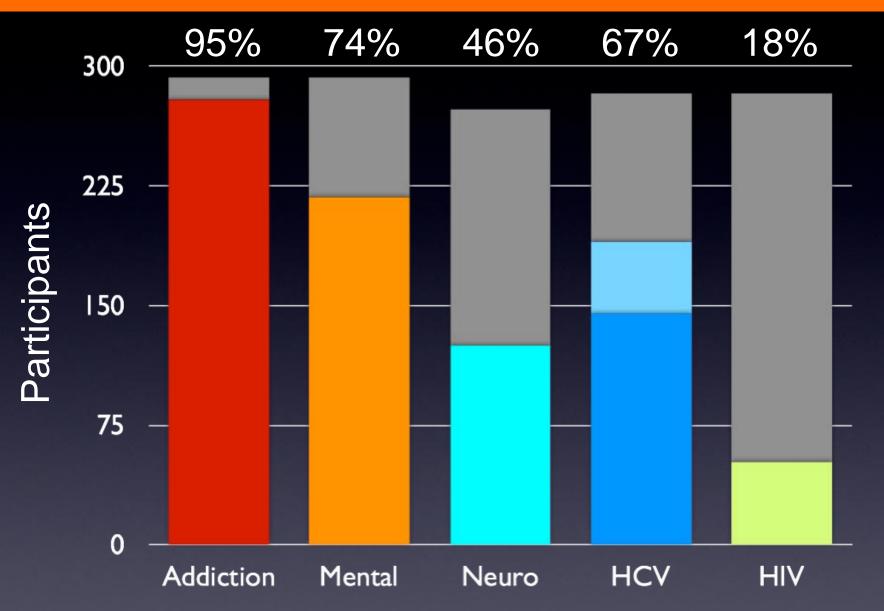


- Same SRO hotel: 150/292 = 51.4%
- Homeless: 15/292 = 5.1%



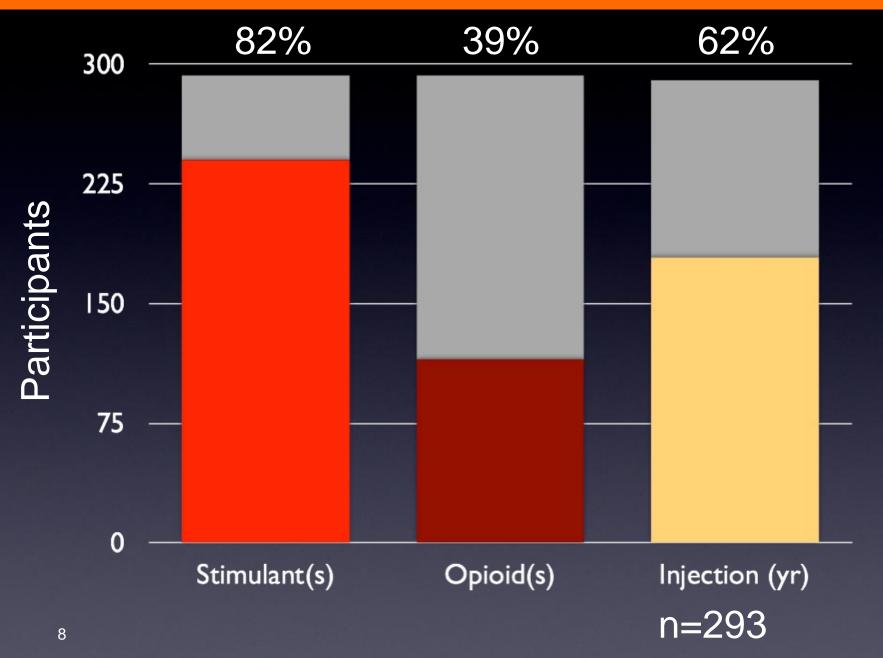
Addiction, mental and medical illness: current

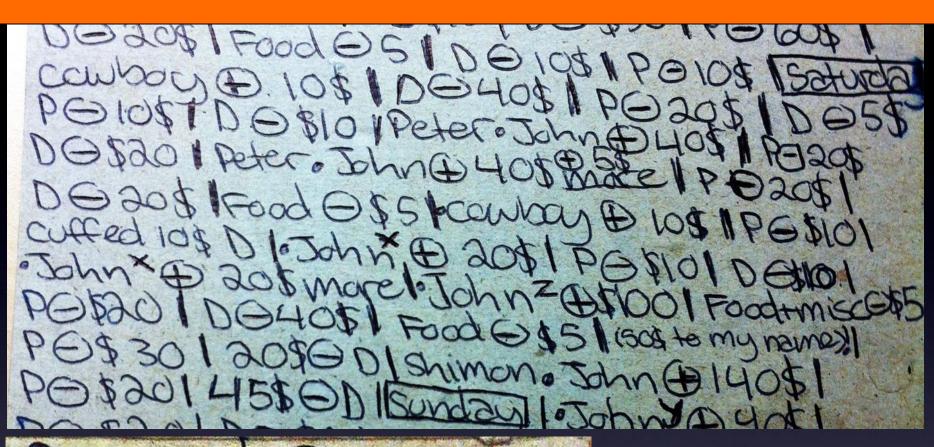




Addiction: current







P-pauder
D-sdammanen
B-3addmanen
S-spendmanen

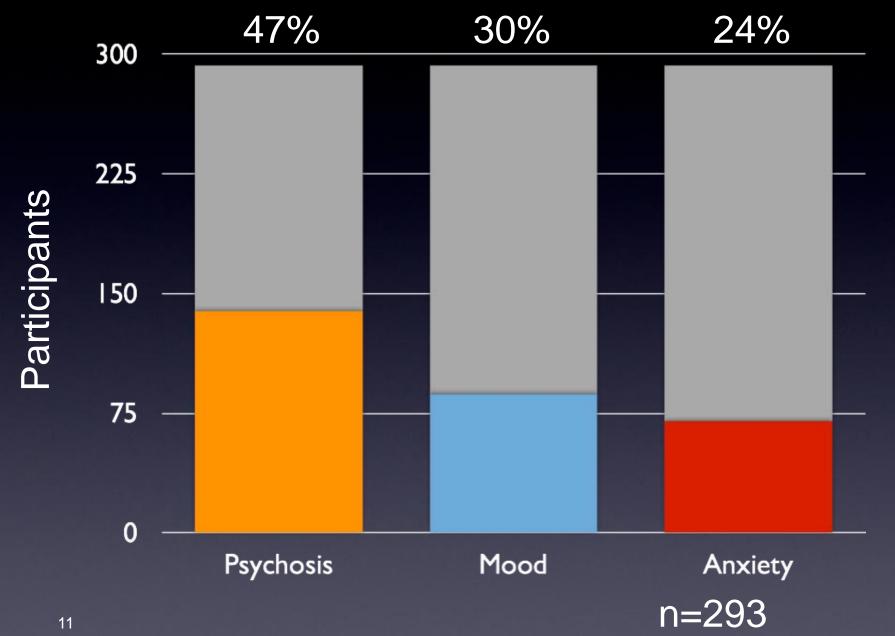
Income and addiction





Mental illness: current





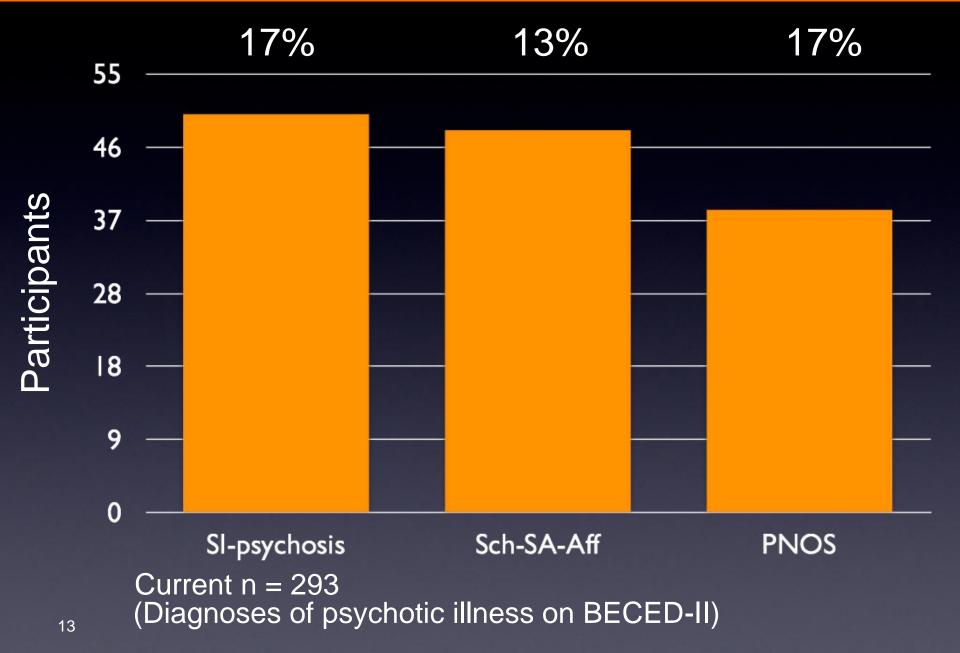
Psychosis



- "... the individual incorrectly evaluates the accuracy of his or her perceptions and thoughts and makes incorrect inferences about external reality, even in the face of contrary evidence."
- Hallucinations: perceptual experiences in the absence of a stimulus (hearing voices)
- Delusions: firmly fixed, false beliefs that are unchanged by any rational argument or evidence (paranoia, special powers or mission)

Psychosis diagnoses (47% of participants)





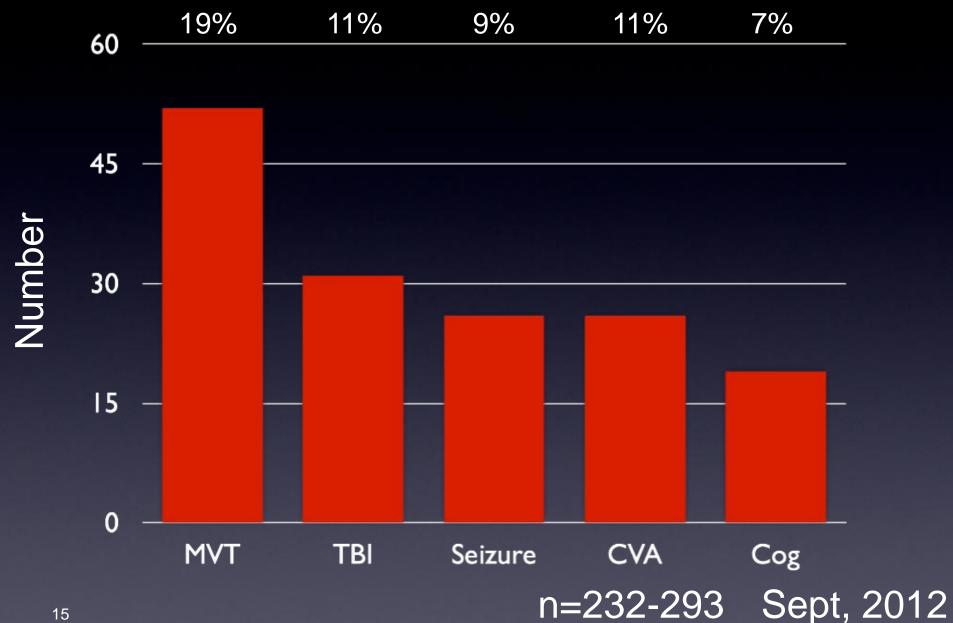
Brain structure

Brain function



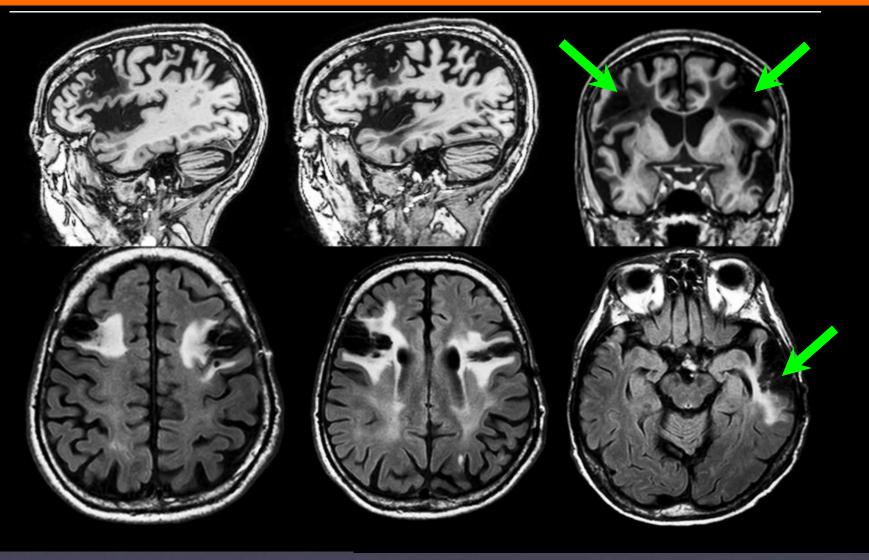
Current neurological disorder (46% of participants)





Bilat FL, left TL infarction and encephalomalacia

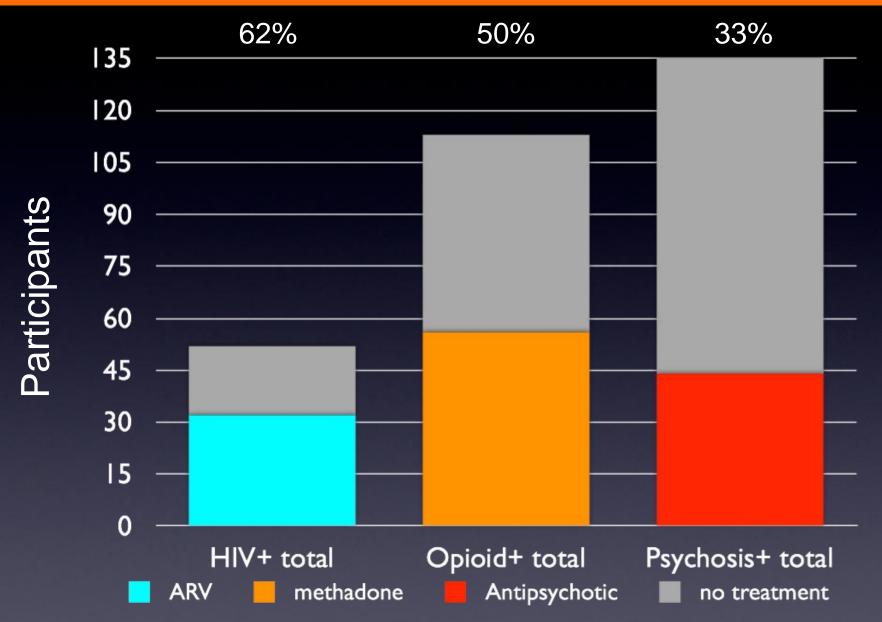




male 53 yr (HIV+, MVA, seizures, cognitive impairment, crack, heroin, past alcohol, past depression)

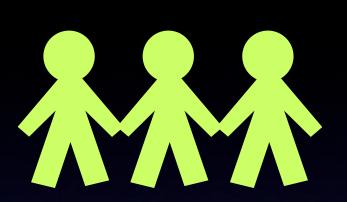
Treatment for three primary illnesses





Mortality in the cohort (n = 293)





Expected number of deaths over 2 yr for Canadians same age and gender





Actual number of deaths

Standardized mortality ratio = 4.8 (95% CI = 2.9 - 8.0)

Mortality



- No suicides
- 5 related to drug overdoses
 - Cocaine
 - Cocaine, morphine, methadone, MA
 - Cocaine, opioids
 - Cocaine, methadone
 - Cocaine, morphine, MA

10 related to physical illness

- Acute subdural hematoma
- Pneumonia
- Subarachnoid hemorrhage
- Uremia, AIDS, renal cancer
- Lung cancer

- Multiple organ failure, sepsis
- Acute myelogenous leukemia
- Sepsis, pneumonia, ulcer, HIV
- Cryptococcal septicemia, liver failure
- Pneumonia

Thoughts



- There is no simple cause and effect in this crisis
- There are risk and protective factors, poor and good outcomes
- Comprehensive, multidisciplinary assessment is needed to help individualize care and housing for better health
- Providing better choices for health, requires understanding of problems and capabilities
- Improving our service delivery requires assessment over time, to see what works and what does not

Vancouver At Home Study:

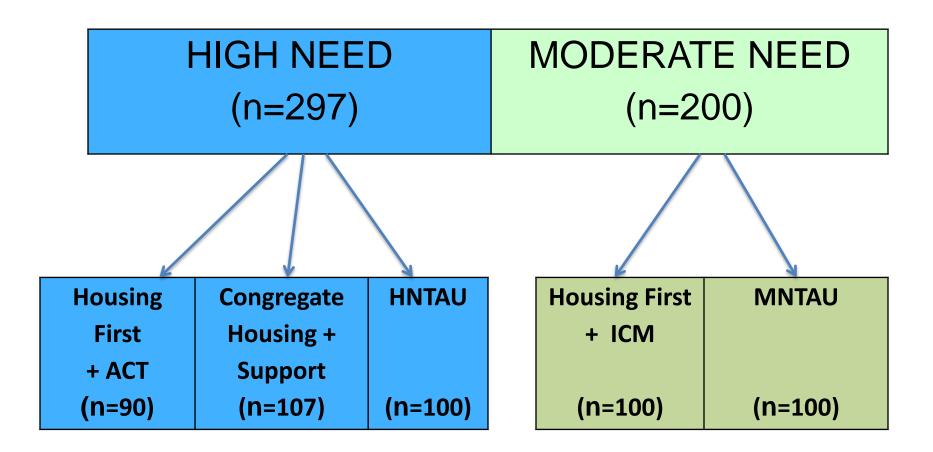
Randomized Controlled Trials of Housing First for Homeless Adults with Mental Illness

Michelle Patterson

Lead Investigator:
Julian Somers



Random Assignment



ACT = Assertive Community Treatment

TAU = Treatment as Usual

ICM = Intensive Case Management

Baseline Demographics

	Per Cent	
Absolutely homeless	78	
Male	73	
Caucasian	57	
Aboriginal	15	
Incomplete High School	56	
Age at enrollment (mean)	41 years	

Duration of Homelessness

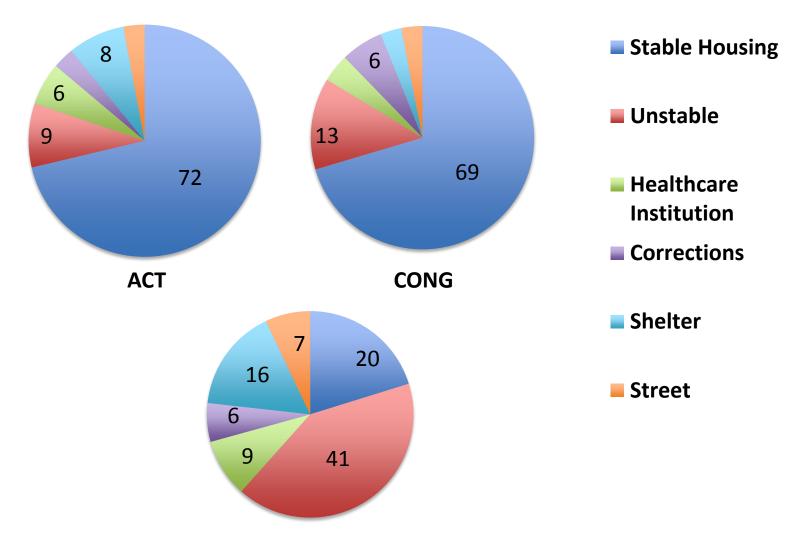
Age first homeless (mean)	30 years	
First homeless before age 25	44%	
Lifetime duration (mean)	5 years	
Longest single episode >1 yr	50%	
Lifetime duration >3 yr	49%	

Mental Disorders & Service Use

	Per Cent		
Mental disorder (severe)	73		
Mental disorder (less severe)	53		
2 or more mental disorders	48		
Substance dependence	58		
Daily substance use	25		
Poly-substance use	38		
ER visit (past 6 months)	58		
3 or more ER visits	22		
Arrested (past 6 months)	36		

In the year after enrollment, where were participants living?

Living Situation: mean % of Year 1



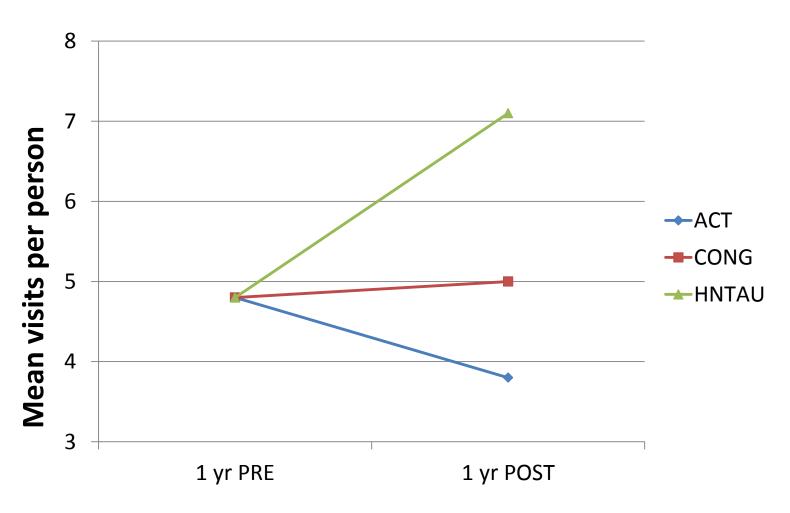
27 HNTAU

Stable Housing by Substance Dependence

Substance Dependence	YES (n=279)	NO (n=199)	
	% Days in Stable Housing	% Days in Stable Housing	
Housing First	72	71	
TAU	19	20	

Palepu, Patterson, Moniruzzaman et al. (in press). American Journal of Public Health.

Emergency Room Visits



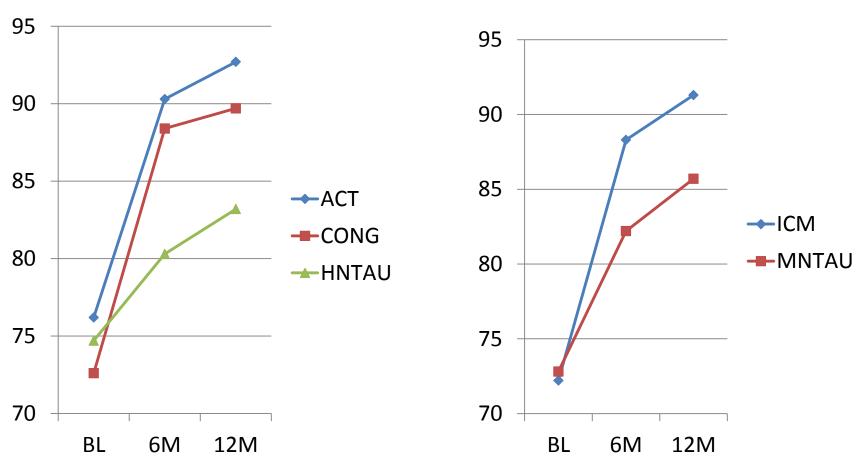
Rusolillo, Somers, Moniruzzaman et al. (under review). Intl J Housing Policy.

Re-offending

- High Needs only
- 67% with criminal justice history (BC)
- 8.07 convictions per person over 10 yrs.
- Most common property offences
- Up to 2 years post (compared to HNTAU):
 - ACT: **71% fewer**
 - CONG: 45% fewer

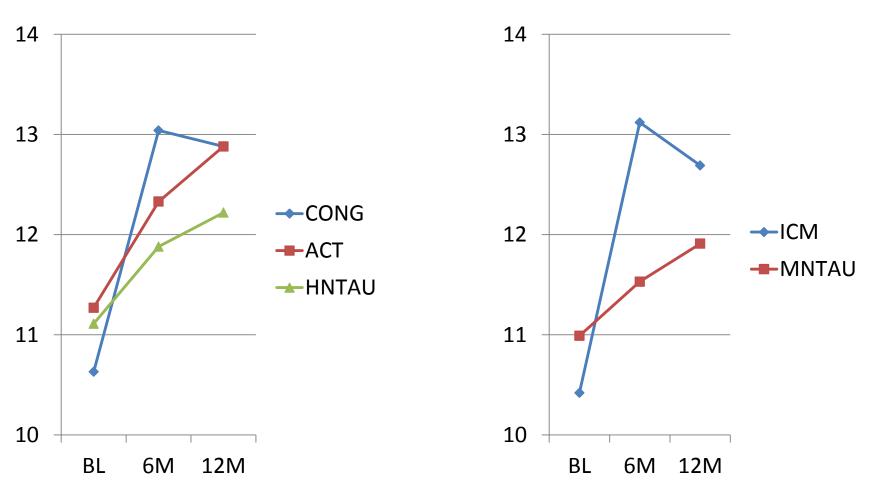
Somers, Rezansoff, Moniruzzaman et al. (2013). PLOS-One.

Quality of Life



Patterson, Moniruzzaman, Palepu et al. (2013). Social Psychiatry & Psychiatric Epidemiology.

Community Integration



Patterson, Moniruzzaman & Somers (under review). Community Mental Health Journal.

Recovery Trajectories (Narrative interviews at 0 & 18 mo)

	Positive	Negative	Mixed	Neutral
Housing First (n=28)	17	0	9	2
TAU (n=15)	3	5	2	5

Patterson, Rezansoff, Currie & Somers. (2013). BMJ Open.

Conclusions

Housing First results in a number of benefits to individuals & society:

- Good quality housing; range of neighbourhoods
- Intensive & high quality supports
- Re-housing after evictions & planned moves
- Choice
- Need for social and vocational opportunities

HF is an important part of an array of housing & support services.