# Prevalence of Chronic Illness and Perceived Access to Services at a Day Shelter for the Homeless

Mary Weber, PhD, APRN, PMHNP-BC Lisa Thompson, DNP, APRN, PMHNP-BC Karen Peifer, PhD, MPH, RN Edward Farrell, MD

A community participatory research project between the Colorado Coalition for the Homeless and the University of Colorado College of Nursing and School of Medicine

# Disclosures/COI

• No relationships to disclose

#### Objectives

- Describe the prevalence of chronic illness in an urban homeless adult population.
- Identify relationships between length of time homeless and health status.
- List barriers chronic homeless individuals face in accessing health, mental health, and substance treatment services.
- Identify strategies for improving access to health, mental health, and substance treatment services for homeless populations.

## Background/ Purpose

- Colorado Coalition for the Homeless (CCH) approached University of Colorado College of Nursing/School of Medicine (CU) to conduct a homeless community survey using participatory research methods.
- Aim: To determine the disease burden and perceived access issues in homeless individuals who use a downtown Day Shelter ?
- Part one of more studies to come

# Purpose of this study

- Examine prevalence of chronic illness and perceived access to health care services for homeless individuals in the day shelter
- Chronic illness defined:
  - Chronic medical conditions
  - Chronic mental health
  - Substance abuse disorders

# Significance

- People who are homeless experience a greater burden of physical, mental health and substance abuse issues than the general population (Levitt et al. 2009).
- Homeless individuals have 3 to 5 times higher rates of mortality than the general population (Hwang, 2000).
- Critical need for primary and preventative services and access to a full range of care (Wright, 2006).

#### Barriers to Access Care

- Money
- Unaware of services
- Lack of transportation
- Demand >>supply
- No place to store medications
- Fragmentation of care
- http://www.nationalhomeless.org/factshee ts/health.html

# flarge

- Fear/distrust of large institutions
- Shelter and food are higher priorities than health/mental health care
- Lack of resources/ budget cuts

# Research Questions

- What is the frequency of common chronic mental, substance, and physical illnesses in the homeless population that participates in a local Day Shelter?
- What are the factors associated with being homeless, having a chronic illness and having access to care in this population?
- Does having health insurance impact access to medical care, mental health care, and substance treatment services in this population?
- What is the perception of access to health, mental health, and substance abuse care among the homeless population at this local Day Shelter ?

#### Methods

- Literature Review, collaboration on survey development and establishing what CCH wanted to know
  - English Speaking Only
- Self-Report instrument included questions about physical and mental health, access to health care services and use of services
  - Used part of NIDA-Modified ASSIST
  - On site assistance in survey completion for literacy and language translation if needed
- Non-random, convenient sample
- One day only
- Incentive for Survey completion
- IRB approval







Prevalence of chronic disease						
Hypertension	106 (35.3%)					
Hepatitis C	53 (17.7%)					
Asthma	48 (15.3%)					
Diabetes	25 (8.3%)					
Emphysema/COPD	26 (8.2%)					
Chronic liver disease	15 (5%)					
Heart disease	10 (3.3%)					
Chronic kidney disease	7 (2.3%)					
HIV/AIDS	7 (2.3%)					
Pain interfere with work	30% yes					
	13					

Mental health and substance abuse disorders						
Smoke	205 (68.3%)					
Depression	137 (45.7%)					
Bipolar disorder	81 (27%)					
Schizophrenia	37 (12.3%)					
Alcohol use	36.6% daily-weekly					
Cannabis	10.3% daily-weekly					
Cocaine	10.3% daily-weekly					
Opiates (street and prescription)	~10% daily-weekly					
Sedatives	9.4% daily-weekly					
Prescription drugs	5.7% daily-weekly					
Methamphetamine	1.3% daily-weekly					

Perceived health s	tatus and access					
to care						
Rating of general health						
Good to excellent	171 (57.6)					
Strongly agree or agree that	123 (52.1%)					
they have access to health care						
services						
Health care insurance						
Medicaid	32 (10.7%)					
Medicare	24 (8%)					
Other insurance (VA, private)	64 (21.3%)					

# Variable description

#### • Dependent Variable:

- Access to care 1 is defined as having either Medicaid, Medicare or other type of health insurance
- Perceived access to care 2 is defined as a positive response when asked "When you need medical care, do you have access to a regular medical provider?"
- Independent covariates for this analysis
  - Serious health disorders are defined as having diabetes, asthma or HIV
  - Chronic health disorders are defined as having either chronic liver disease, chronic health disease, hepatitis C, chronic heart disease or COPD



#### Chronic homelessness and health Number of years homeless-Number and % of >=1 year 2-4 years >4-9 years >10 years sample Serious 136 мн 17 (10%) 36 (30%) 30 (25%) 39 (32%) (45.3%) 8 (14.03%) 18 (32%) Serious 11 (19%) 20 (35%) 68 (22.8%) Health

Cross tabs	DV1= Access to Care Health insurance	p value
Serious Health	nealth insurance	p value
Problem	31 (14.2% of total)	0.0001
Chronic health		
problem	13 (5.7% of total)	0.001
Serious mental		
health	65 (28.7% of total)	0.0001
Illegal substance		
abuse in past		
week	76 (32.5% of total)	0.23

Access to	care	e=he	alth	insu	rance	e D\
	В	S.E.	Wald	df	Sig.	Odds ratio
Serious health	.995	.352	7.978	1	.005	2.70
SMI	.779	.313	6.198	1	.013	2.17
Chronic health	.597	.312	3.671	1	.055	1.81
Substance Abuse	721	.407	3.140	1	.076	.48
Constant	787	.430	3.361	1	.067	.45

Access to care DV2= When you need medical care, have regular access to a PCP									
		В	S.E.	Wald	df	Sig.	Exp(B)		
	Serious mental health	707	.291	5.881	1	.015	.493		
	Serious health	-1.140	.345	10.937	1	.001	.320		
	Chronic health	-1.124	.291	14.877	1	.000	.325		
	Illegal drug use in past week	.541	.394	1.883	1	.170	1.718		
	Constant	.710	.407	3.036	1	.081	2.034		

## Interpretation

- The majority of people who are chronically homelessness have serious health, mental health and substance use problems
  - 81% reported use of illegal drugs but only 32% have access to substance abuse services
  - Those with a diagnosis of a serious health issue of asthma, HIV, or diabetes are 2.7 times less likely to have health insurance
  - Those with a diagnosis of either major depression, bipolar disorder or schizophrenia are 2.1 times less likely to health insurance

## Interpretation

- Access to care 2-self report of access to a health care provider when needed
  - 50.5% of respondents report having access to a health care provider when needed and 49.5% do not.
  - Those with a diagnosis of a serious health issue of asthma, HIV, or diabetes are a third less likely to have access to a health care provider
  - Those with a diagnosis of either major depression, bipolar disorder or schizophrenia are half as likely to have access to a provider when it is needed.

Limitations

- Convenience sample of persons who were English speaking who sought refuge at a day center.
- It was a sunny, warm day which could have led to fewer people seeking refuge than if the weather was not as nice.
- Observationally, there were a number of individuals who had symptoms of a serious mental health who were not able or willing to complete the survey
- People who did not understand a question may have felt too embarrassed to ask for help
- Underreporting expected from stigma, fear of repercussions

#### Conclusions

- The homeless population at this day shelter describe significant substance disorders, chronic health issues and chronic mental illnesses, especially depression in this sample
  - $\bullet$  Around 50% feel they have access to health care services
- There is a need to work collaboratively with multiple agencies in this community to identify PCP's and mental health providers for those who are not insured to increase access
- Need to work collaboratively in this community with multiple agencies to engage homeless individuals in Harm Reduction and substance treatment

# Conclusions

- Work with state legislators on policy to reduce the lack of access to mental health and substance abuse care in the community
- Replicate the survey at the women's day shelters and with those who are not English speaking

### •Questions?

#### References cited

- drugabuse.gov/nidamed/screening/nmassist.pdf
- Hwang, S (2000). Mortality among men using homeless shelters in Toronto, Ontario. *Journal of the American Medical Association*, 282, 2152-2157
- Levitt, A., Culhane, D., DeGenova, J., O'Quinn, P., Bainbridge, J. (2009). Health and social characteristics of homeless adults in Manhattan who were chronically or not chronically unsheltered, *Psychiatric Services*, 60,978-981.
- Savage, C., Lindsell, C., Gillespie, G., Lee, R., Corbin, A. (2008). Improving health status of homeless patients at a nursemanaged clinic in the Midwest USA, *Health & Social Care in the Community*, 16(5), 469-475.
- Wright, N. & Tompkins, C., (2006) How can health services effectively meet the health needs of homeless people? *British Journal of General Practice*, 56, 286-293.
- http://www.nationalhomeless.org/factsheets/health.html

27