Mending the Holes in Your Safety Net

Screening for Homelessness in the Emergency Department

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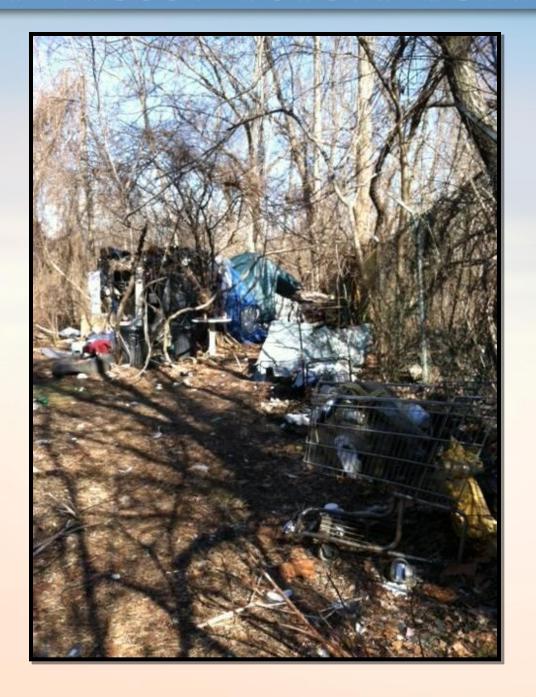
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Why the Holes?

- Difficulty with.....
 - Defining Homelessness
 - Identifying the Homeless
 - ED Implementation of Screening
 - Developing Efficacious Response





WHY DO WE CARE IF THERE ARE HOLES?

Homelessness and Poor Health

- Life expectancy
 - Homeless- 42 and 52 years
 - Housed- 78 years (4)
- 38% have 2 or more of the following:
 - HTN, COPD, CAD, CVA, HIV/AIDS, liver condition, CKD or cancer (5)
- 25% w/ severe mental illness (5)
- 30% w/ drug use disorder (6)

Homelessness and High Utilization

740% greater hospitalization days (1)

170% greater cost per hospital day (2)

Stayed 4.1 days longer per admission (2)

30-day readmission rate 50.8% (3)

Difficulty Identifying the Homeless

- Obscurity over definition
- Lack of awareness in ED
 - Misunderstanding of homeless population
 - Perception of small prevalence
 - Feeling of impotence in ability to affect change
- Patients' desire to NOT be identified

Defining Homelessness

- Department of Health and Human Services (HHS)
 - individual who may live on the <u>streets</u>; stay in a <u>shelter</u>, mission, single room occupancy facilities, <u>abandoned</u> building or vehicle
 - "doubled up," a term that refers to a situation where individuals are unable to maintain their housing situation and are forced to stay with a series of friends and/or extended family members.
 - released from a prison or a hospital may be considered homeless if they do not have a stable housing situation to which they can return.

(HRSA/Bureau of Primary Health Care, Program Assistance Letter 99-12, Health Care for the Homeless Principles of Practice)

Defining Homelessness

- U.S. Department of Housing and Urban Development (HUD)
 - lacks a fixed, regular, and adequate nighttime residence, which includes a primary nighttime residence (<u>shelter</u>, <u>street</u>)
 - Individual or family is being <u>evicted within 14</u> <u>days</u> from their primary nighttime residence
 - Has moved two or more times in the 60 days immediately prior to applying for assistance
 - also includes other markers of chronic housing instability

(https://www.hudexchange.info/resources/documents/HEARTH_Homeles sDefinition_FinalRule.pdf)

Defining Homelessness

- U.S. Department of Housing and Urban Development (HUD)
 - Does NOT include:
 - Living with relatives or friends
 - Being discharged from an institution which is required to provide or arrange housing upon release

Veterans Administration Screening

At least one of the following:

- 2 or more moves due to economic reasons during the past 60 days
- Living in the <u>home of another</u> due to economic reasons
- Has been notified in writing that right to <u>occupy</u> current housing or living situation will be <u>terminated</u> within 21 days
- Lives in a <u>hotel/motel</u>
- Is exiting an institution without a stable housing plan

(www.va.gov)

LVHN ED Screening Tool

In the last 60 days have you:

- Been concerned about losing your housing?
- 2. Changed residences more than twice?
- 3. Lived with a friend or family member you do not normally reside with due to financial hardship?
- 4. Faced eviction or have been evicted from your current living situation?
- 5. Slept outside, in an abandoned building, your car, in an emergency shelter or a motel due to financial hardship?

What is the Denominator?

Identifying ALL the homeless

Studies Identifying the Homeless

- Kushel, M.B., Perry, S., Bangsberg, D., Clark, R., Moss, A.R.
 <u>Emergency department use among the homeless and</u>
 <u>marginally housed: results from a community-based study.</u> Am
 J Public Health. 2002;92:778–784.
 - Individuals in <u>homeless shelters</u>, Day-time free meal programs (<u>soup</u> <u>kitchens</u>), and low rent apartments
 - ED usage was self reported
- Ku, B.S., Scott, K.C., Kertesz, S.G., Pitts, S.R. <u>Factors associated</u> with use of urban emergency departments by the U.S. homeless <u>population</u>. *Public Health Rep.* 2010;125:398–405.
 - Used National Hospital Ambulatory Care Surveys (NHAMCS-ED)
 - "Patient Residence" item contained a check box for "homeless"
 - Of surveys, only 0.6% qualified
 - Other available check boxes were "Other Institution," and "Other Residence"

Studies Identifying the Homeless

- Oates, G., Tadros, A., Davis, S.M. <u>A comparison of national</u> <u>emergency department use by homeless versus non-homeless</u> <u>people in the United States.</u> *J Health Care Poor Underserved*. 2009;20:840–845.
 - Also used NHAMCS-ED from a different year
 - 0.4% ED visits by homeless
- D'Amore, J., Hung, O., Chiang, W., Goldfrank, L. <u>The epidemiology</u> of the homeless population and its impact on an urban emergency department. Acad Emerg Med. 2001;8:1051–1055.
 - Homelessness was defined as any person not residing at a private address, group home, or drug treatment program.
 - Estimated 20-30% of all ED visits in institution by homeless

Studies Identifying the Homeless

- Sadowski, L.S., Kee, R.A., VanderWeele, T.J., Buchanan, D. <u>Effect of a housing and case management program on emergency department visits and hospitalizations among chronically ill homeless adults: a randomized trial.</u> *J Am Med Assoc.* 2009;301:1771–1778.
 - Included <u>only inpatients</u>
 - Homeless defined as those "without stable housing (housing for which a person has adequate resources and for which there are no time limits) during the 30 days prior to hospitalization"
- Bon S. Ku, Fields, J.M., Santana, A., Wasserman, D., Borman, L., and Scott, K.C. <u>The urban homeless: Super utilizers of the Emergency Department.</u> Pop Health Management, 2014.
 - Homeless self- identified, local shelter address, or ED staff identified known pt
 - Only 15% of homeless self-identified

Prospective validation of a predictive model that identifies homeless people at risk of representation to the emergency department.

<u>Australas Emerg Nurs J.</u> 2012 Feb;15(1):2-13. doi: 10.1016/j.aenj.2011.12.004. Epub 2012 Jan 31.

Homelessness defined as:

- Living on the streets
- In crisis accommodation
- Boarding houses
- Unstable housing

Study Findings Related to Screening

- 2,888 individuals screened
 - 7% total patients were identified as homeless
 - 10% of all ED visits
 - 43% re-presented to ED within 28 days
 - Who Identified the Homeless?
 - Clerical staff 18%
 - ALERT 8.1%
 - Researchers 73.9%

^{*}ALERT: Admission, Liaison, Early Referral Team provides care coordination to people with complex care needs, such as homeless individuals.

Implementing a Screening Tool for Homelessness at LVHN: A Pilot Project

GOALS:

- Estimate prevalence in the ED
- Projection of Utilization Patterns
- Projection of Cost
- Ultimately justify/ inform needed resources

Study Hypothesis

- 1. Prevalence will be different between the Summer and Winter months (to be studied this winter).
- 2. Prevalence will be different for men and women.
- 3. Prevalence will be different at our ED sites. (Cedar Crest, Muhlenberg and 17th Street)
- 4. Prevalence will be different by the time of day and the day of the week.

Population and Sample Studied

- All adult patients who present to the EDs during scheduled survey times
- Inclusion Criteria
 - 18 years or older
 - Must speak English
 - Have capacity to answer survey questions
 - Not critically ill
 - Willing to participate
 - Did not take survey previously

Population and Sample Studies

- Exclusion Criteria
 - Less than 18 years old
 - Do not speak English
 - Do not have capacity to answer survey questions
 - Critically ill
 - Are unwilling to participate
 - Has taken survey previously

Study Procedures

- 5 question survey given to all assigned pts in pod who meet criteria
- Equal rotations through all sites and pods
- Data de-identified
- If screened positive, attending made aware of possible Street Medicine Consult

Prevalence by Site

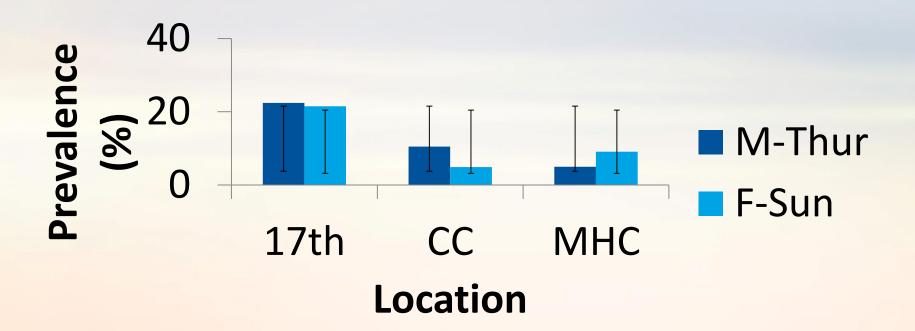
SITE	At Risk %	Homeless %	Total %
17 th	4%	14%	18%
CC	3%	5%	8%
МНС	3%	6%	9%

N=4,499 total pts meeting inclusion criteria

Screening Tool Outcomes by Question

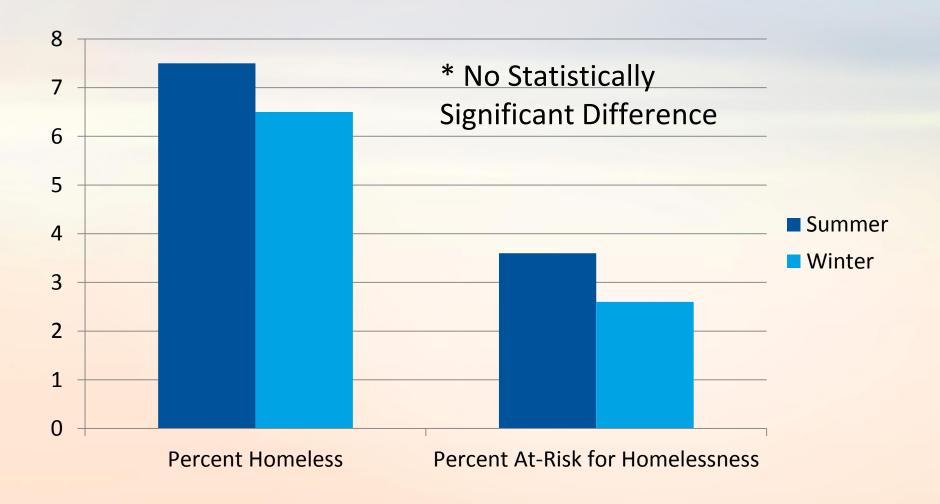
- Been concerned about losing your housing?
 - Total Answered YES: 57%
- Changed residences more than twice?
 - Total Answered YES: 24%
- Lived with a friend or family member you do not normally reside with due to financial hardship?
 - Total Answered YES: 72%
- Been evicted or served an eviction notice?
 - Total Answered YES: 21%
- Slept outside, in an abandoned building, your car, in an emergency shelter, or in a motel due to financial hardship?
 - Total Answered YES: 26%

Prevalence by Day of Week



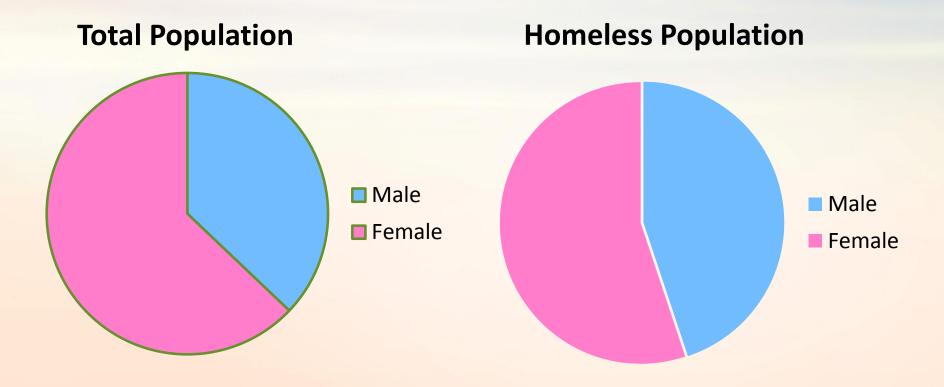
^{*}No statistically significant difference between presentation of weekday or weekend

Seasonal Differences



Gender Differences

*No Significant Differences between Gender and Homelessness



Homeless Impact on the ED Cost

- Total ED Visits to LVHN FY2014:
- Cost per ED Visit:
- Total Yearly Cost of Homeless in ED:

Total Potential Cost Savings

Collateral Benefits

- ED providers have changed treatment plan based on housing status
- Overall greater awareness of social determinants of health
- Presence of researchers caused awareness, facilitating Street Medicine Consults
- Avg. consult decrease from Hospital Day #5 to Day #0!!

Street Medicine Action Plan

- Widespread screening in urban location and in community clinics
- Homeless Hotline
- Nurse Triage of consults and care coordination
- Increased Street Medicine resources including staff to meet volume

Unanswered Questions

- Who "owns" definition of homelessness?
- How do we study this population to include in homeless research?
- How does this "new" homeless population access/ utilize healthcare?
- What aspects of street medicine still apply?



References

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- 2. Salit SA, Kuhn EM, Hartz AJ, Vu JM, Mosso AL. "Hospitalization costs associated with homelessness in New York City." N Engl J Med 1998;338:1734-40.
- 3. Med Care. 2013 Sep;51(9):767-73
- O'Connell, J.J. "Premature Mortality in Homeless Populations: A Review of the Literature." 19 pages. Nashville: National Health Care for the Homeless Council, Inc., 2005.
- 5. Lebrun-Harris LA1, Baggett TP, et al., "Health status and health care experiences among homeless patients in federally supported health centers: findings from the 2009 patient survey." Health Serv Res. 2013 Jun;48(3):992-1017. doi: 10.1111/1475-6773.12009. Epub 2012 Nov 7
- 6. Lehman AF, Cordray DS. Prevalence of alcohol, drug, and mental disorders among the homeless. Contemp Drug Probl 1993;20:355-83.



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