Characterization of Hypertension Risk Factors at the Committee on Temporary Shelter

Lindsey M. Eastman
J. Curtis Gwilliam
Ethan R. Harlow
Adrienne R. Jarvis
Jacob Korzun

See next page for additional authors

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Introduction

The health of homeless populations is at risk due to a high prevalence of undiagnosed hypertension (HTN) and cardiovascular disease (CVD).[1-3] The interaction of housing and socioeconomic status with the risk factors for HTN and CVD remains unclear.[3-5] Prevention of HTN through a healthy diet, exercise, adequate sleep, and avoidance of tobacco has been well described, but financial limitations and competing priorities for shelter and food make blood pressure (BP) control difficult for this population.[6-8] By characterizing the risk factors and awareness of hypertension within the homeless population at the Committee on Temporary Shelter Daystation (COTS) in Burlington, Vermont, we may be able to identify promising avenues for therapeutic intervention.

Methods

- Study was conducted at a COTS Daystation drop-in shelter in Burlington, Vermont
- All English-speaking clients of the Daystation shelter were eligible for the study
- A 35-question survey was administered in a face-to-face, structured interview consisting of multiple choice and short answer questions
- Questions were designed to assess self-rated perceptions of health, knowledge of BP, risk factors for HTN, and barriers to BP control
- Frequency counts were performed using Excel to analyze multiple choice data and short answer responses were coded using content analysis[9]
- Remaining data analysis for this study was generated using SAS software[10]

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References


Discussion

- Clients report COTS and Salvation Army as most popular sources of food
- The majority of COTS clients used Safe Harbor Health Center as the main source of health care
- Correlation (r=0.39, p<0.05) between BP concern and desire to exercise may show lack of time for exercise and/or low knowledge about effective exercises
- A majority of respondents reported positive relationships with health care providers, contrasting other studies[12]
- Clients reported many barriers to BP control with the top two including "not having a place to store meds" and "not knowing how to change their diet"
- Prevalence of tobacco use in this population was found to be over three times the national average[13]
- To control BP, clients would be interested in YMCA's gym facilities, heart-healthy cooking classes, and BP monitoring techniques

Limitations:
- Study composed of small sample size (n=32) from single polling site
- Convenience sampling (location/time) may not represent the Burlington, Vermont, homeless population
- Selection bias as all participants volunteered to complete the survey

Conclusion

- In this homeless population, the greatest perceived barriers to BP management are competing priorities, lack of secure medication storage, and information on heart-healthy diets
- This COTS population may represent a less vulnerable sub-population of Burlington’s homeless population and one that is especially responsive to resources and opportunities
- COTS excels at advocating for their clients and providing important services to which they may not otherwise have access
- COTS successfully facilitates client enrollment in health insurance and access to health care
- COTS and the Salvation Army could work toward providing more fruits, vegetables, and low sodium options for clients
- COTS can assist the reduction of a major HTN risk in this population by facilitating access to smoking cessation programs
- COTS can further serve clients by providing secure medication storage, BP measurement tools, and encouragement of YMCA gym pass use

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LM Eastman1, JC Gwiliam1, ER Harlow1, AR Jarvis1, J Korzun1, MK Ohkura1, SM Siskind1, BL Spencer1, T Coleman2, VL Hood, MBBS, MPH1

1. University of Vermont College of Medicine, 2. Committee on Temporary Shelter