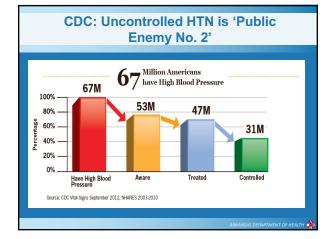
The Role of Public Health Nursing in Community Team-Based Care for Hypertension Management



Hypertension in Arkansas

- Arkansas ranks # 1 among states with the highest heart attack deaths and # 2 among states with the highest stroke deaths.
- According to the 2014 BRFSS survey, 39% of Arkansans age 18 and older have self-reported hypertension, another third are undiagnosed.
- Arkansas death rates for hypertension-associated conditions is up to 33% higher than the US death rates.
- The direct medical costs associated with hypertension and hypertension-associated conditions was \$1.5 billion in 2010, of which, \$532 M is directly attributed to hypertension.

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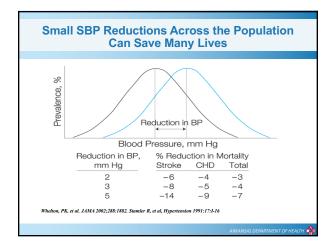


Undiagnosed HTN

- Total ADH patients in Greenway (Jan-Dec 2014) = 234,643
- Of these, patients with 2+ visits where BP was recorded = 79, 427 (34%)
- Of these, patients with 2+ visits and had an elevated BP = 2,187
- Of these, patients with no HTN diagnosis = 1,365 (62%) had Undiagnosed Hypertension (Hiding in plain sight)

Uncontrolled HTN – Major causes

- Nonadherence to medications up to 40-50%
- + Nonadherence to lifestyle modification up to 40- 50%
- Suboptimal therapy 5%





What is Team-based care?

A Team-Based Care is an evidence-based model that comprises of the patient, patient's primary care provider, and another person such as a nurse, pharmacist, dietician, social worker, or a community health worker.

- The Guide to Community Preventive Services

ARKANSAS DEPARTMENT OF HEALTH Traditional Medical Model vs. Team-Based Care Model

Key Roles of Public Health Nurses in Prevention and Control of Hypertension

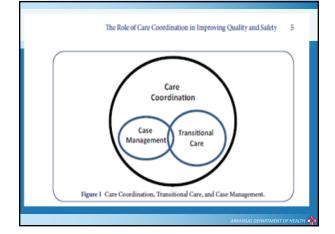
- Blood pressure screening and monitoring: build community members knowledge and awareness of screening and its impact on health.
 Care coordination: reduce
- fragmented care and provide greater follow-up.
- Counseling/coaching: guide community members to set and meet their own health goals.
 Data collection: provide a
- "snapshot" of the population affected by hypertension and help providers target interventions.

Source: 2014 ASTHO

- Developing protocols and making referrals: ensure standard practices and determine patient and provider roles.
- Patient or provider education: inform patients about their blood pressure and how they can make lifestyle changes to prevent or improve hypertension.
- Self-management education: allow referral to peer-led, communitybased programs that build selfefficacy and teach symptommanagement skills.

ADH Hypertension Strategy #5

• Expand partnerships to spread and sustain team-based care for hypertension management in Arkansas communities



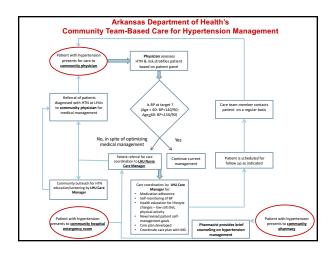


Cost savings

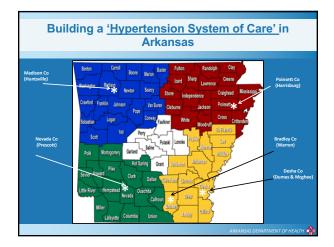
- Cost saved by avoiding one coronary cath for acute myocardial infarction is about \$11,292
- Cost saved by averting a bypass graft is about \$18,298
- Cost saved by averting an acute stroke is \$9,975, not including the cost of long term care
- Cost saved by preventing one hemodialysis for renal failure is \$ 1 M over lifetime













Patients followed up Community Team-Based Care for Hypertension Management at ADH LHU's (2015-17)

Million Hearts Target	Data description	Numbers of Patients Served
	Numerator for Patients Followed-Up (Total no. of patients who followed up with LHU HTN Care Managers for one or more visits)	327 (45.0%)
Number of return visits for hypertension care management	Range = 4-22 visits per patient	10 (Median number of visits)
	Numerator for Patients Adhering (No. of patients adherent to medication from among those who followed up with LHU HTN Care Managers)	262 (98.9%)
	Numerator for Patients with Reduced BP (No. of patients with reduced SBP and DBP from among those who received 22 episodes of care from LHU HTN Care Managers) (Denominator = 198)	40 (20.2%)
Control	Numerator for Patients with Controlled SBP (No. of patients with controlled SBP and diastolic from among those who received 22 episodes of care from LHU HTN Care Managers and were uncontrolled for SBP at their first visit)	24 (12.1%)

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Summary

- Hypertension is a major health concern in Arkansas and with the prevalence reaching epidemic proportions, the role of public health nursing in community team-based care for HTN management in our underserved rural communities is imperative.
- Diagnosing those undiagnosed with hypertension through our LHU's is a major public health concern
- Addressing medication adherence and lifestyle modification could help
 mitigate the burden due to uncontrolled hypertension
- Public Health Nurses role in Community Team-Based Care is high risk
 case management, care coordination, self management, transitional care.
- Community TBC is not a panacea, but can serve as an option for underserved communities in Arkansas; and a vital between Primary Care and Public Health in the State.