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Cardi-OH ECHO - Hypertension

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Team-based Care Approaches to Hypertension Management





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Disclosure Statements





The following planners, speakers, moderators, and/or panelists of the CME activity have financial relationships with commercial interests to disclose:

- Adam T. Perzynski, PhD reports being co-founder of Global Health Metrics LLC, a Clevelandbased software company and royalty agreements for forthcoming books with Springer publishing and Taylor Francis publishing.
- Siran M. Koroukian, PhD reports ownership interests in American Renal Associates, and Research Investigator subcontract support from Celgene Corporation.
- George L. Bakris, MD reports partial salary from Bayer as FIDELIO PI, partial salary from Janssen as CREDENCE Steering Committee, partial salary from Vascular Dynamics as Calm-2 Steering Committee, and receiving honorarium as a consultant to Merck, NovoNordisk.
- These financial relationships are outside the presented work.

All other planners, speakers, moderators, and/or panelists of the CME activity have no financial relationships with commercial interests to disclose.

Learning Objectives



- Describe the rationale for team-based care
- Identify team-based care approaches shown to improve blood pressure control across diverse populations
- Determine resources available to implement these approaches

Why Team-based Care?



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Enough Time in Primary Care?

Gradison M, Michener JL. Ann Fam Med. 2005 May-Jun; 3(3): 209-14.



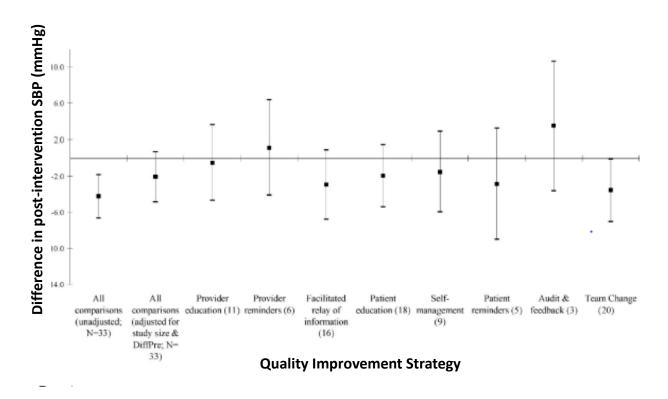
- To satisfy the USPSTF preventive care recommendations for an average panel size of 2500 patients requires an average of 7.4 hours/working day
- To provide chronic disease care for the top 10 chronic diseases requires ~3.5 hours/day, provided the disease is stable and in control
 - For uncontrolled disease, time demands increased to 10.6 hours/day

To provide preventive and chronic disease care requires about 10.9-18.0 hours/day by a primary care clinician using conservative estimates

Why Team-Based Care?



- Team changes have been shown to improve blood pressure control
- Provider recognition that combining skills from across team members can have a greater impact



Elements of Team Changes



- Transfer of all responsibilities around BP to team members (pharmacists, physician assistants, nurse practitioners, worksite)
- Shared responsibility (pharmacist gives provider recommendations, nurse)

Interventions used repeatedly in team-based care approaches

- Home blood pressure monitoring
- Use of a treatment protocol

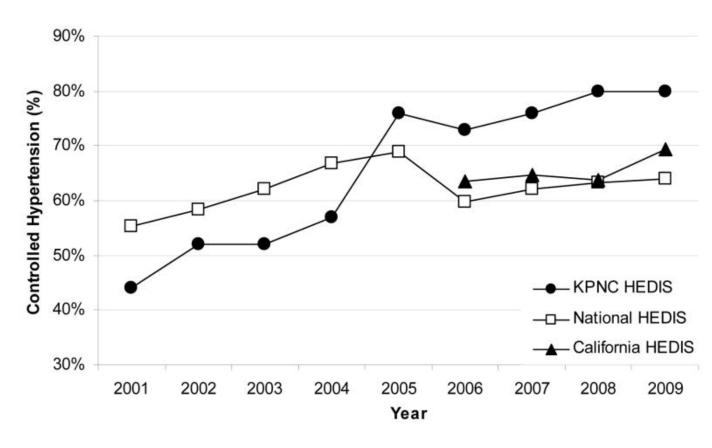


Team-Based Interventions within Safety Net Populations

Kaiser Hypertension Program Improved BP Control



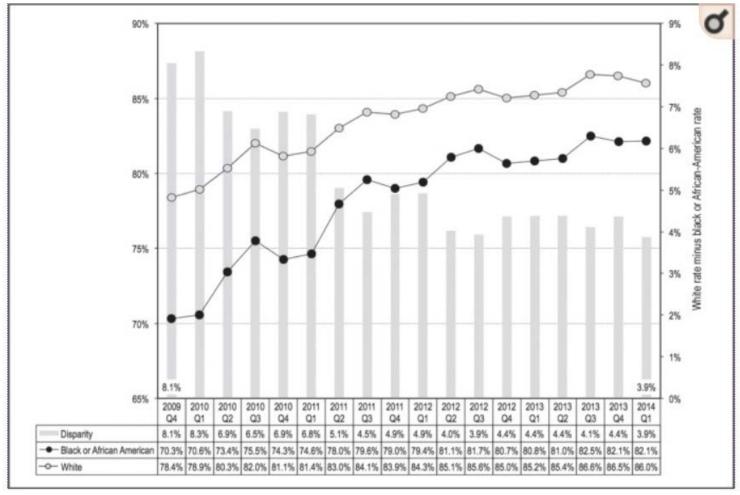
(A)



Jaffe et al. Improved Blood Pressure Control Associated With a Large-Scale Hypertension Program. JAMA 2013; 310(7): 699-705.

Kaiser Hypertension Program Reduces Disparities





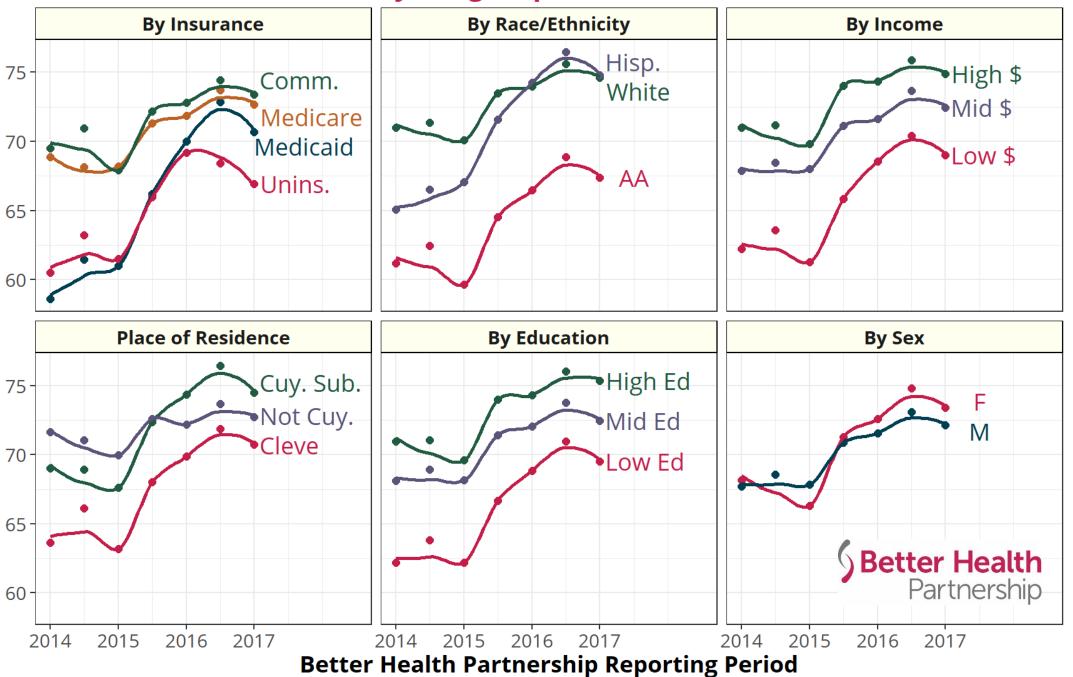
Platt ST. Kaiser Permanente Programwide Quarterly ECHO (Equitable Care Health Outcomes) Report (unpublished). 11 Oakland, CA: Center for Healthcare Analytics, Hospitals, Quality and Care Delivery Excellence; 2014.

Kaiser Hypertension Program



- Accurate BP Measurement by staff, including repeating BP if first elevated
- Monthly staff-led hypertension visits until BP is controlled
- Treatment algorithm prioritizing low cost once daily medications
- Coordinated outreach to patients with elevated blood pressure
- Enhanced communication focused on building trusting relationships with patients

% with BP below 140/90 by subgroup, 2014 to 2017



Colleague's Story



- "I saw a patient this week who has not followed up with me in over 2 years.
- He recently came into see an eye doctor who found his blood pressure was elevated.
- He got scheduled in a nurse visit in primary care a few weeks later where his blood pressure was still high.
- He then got scheduled to see me where his blood pressure was high, and I tested his A1C which was 11.1."

"Population Health Here We Come!"

Health Coaches Improve BP Control



- Randomized 237 patients to health coaches +/- home titration of meds
- Mainly Hispanic, AA and Asian low income patients from one family practice clinic
- Received an average of 10 health coach visits in 6 months (range 0-27)
- SBP decreased on average 22 mmHg prepost for both groups combined (p<0.001)



Culturally Appropriate Storytelling Reduces Blood Pressure in Low Income Populations



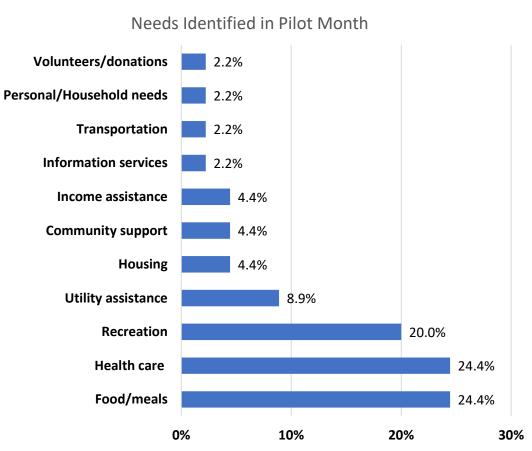
- RCT in one inner-city safety-net hospital of adults with hypertension
- 3 DVDs of patient stories + learn more sections vs attention DVD
- Of those with uncontrolled BP, 11 mmHg greater reduction in the patient stories DVD group (95% CI 3 to 20 mmHg)



Community Organizations as Part of the Team



- Medical Assistants referred 25 (49%) of the 51 patients with elevated BP to 2-1-1
- The 2-1-1 Navigation specialist reached 15 patients (4 were being contacted, and 6 were unreachable)
- Median number of needs/patient = 4 (range 1-8)



See separately a recent paper in Annals of Family Medicine describing screening for SDOH at 3 clinics. Gold et al. *Ann Fam Med* 2018; 16: 399-407

Motivating Teams



- Communication with staff and providers
- Pilot the change with motivated staff
- Don't let small barriers stop or change the process when it works for the majority
- Bake QI into annual reviews and performance improvement projects
- Reward all sites but also reward high performers
- Show your team you value them



Resources Available to Assist with Implementation of QI programs for Hypertension



- Medicaid-funded Hypertension Quality Improvement Project (Wave 2 begins April 15, 2019; Contact: Shari Bolen)
- AHA Target BP Program (Contact: Lisa.Wheeler-Cooper@heart.org)
- Ohio Association of Family Practice
 https://www.ohioafp.org/education/abfm-family-medicine-certification/)
- Regional health improvement collaboratives

If interested in hearing more, e-mail me at sdb73@case.edu. We will be happy to describe and connect you with any of these programs.

Summary



- Team-based care models work to improve BP control and reduce clinician burden
- Implementation of models requires time and effort but can be done successfully within safety net practices
- Resources exist to assist with implementation
- Our payment models need to better support teambased approaches
 - the evolution toward total cost of care should assist clinics

Questions or Comments





U.S. Air Force photo/Airman 1st Class Jessica Gilbert https://www.af.mil/News/Photos/igphoto/2000502381/



"When Young Children "Hate" School" (CC BY 2.0) by wecometolearn