Evidence-Based Interventions for High Blood Pressure and Glycemic Control Among Illinois Health Systems

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Summary
What is already known on this topic?
Analyses of health systems interventions on chronic disease management and the variation of clinical quality improvement percent scores is limited.

What is added by this report?
This study underscores the variability that can occur within and across federally qualified health centers in Illinois around the number and type of policies, systems, and processes implemented.

What are the implications for public health practice?
When considering the tactics of implementing evidence-based chronic disease management, health systems should consider the difference between the number and types of policies, systems, and processes that address hypertension and diabetes control.

Abstract

Introduction
Evidence-based interventions (referral, team-based care, self-management, and self-monitoring) for chronic disease management are well documented and widely used by Federally Qualified Health Centers (FQHCs). However, how these interventions are implemented varies substantially.

Methods
The Illinois Health Information Systems Survey was deployed to 49 FQHCs. Responses were grouped into 4 distinct policies, systems, and processes (P/S/P) categories: internal policies/workflows, huddles (brief meetings), electronic health record alerts/tracking tools, and case manager/coordinator interaction. Responses were then direct-matched to the 2016 Health Resources and Services Administration Uniform Data System clinical quality indicator (QI) percent scores. Descriptive statistics were generated and level of significance (P < .05) was tested for hypertension and type 2 diabetes mellitus.

Results
The total number of P/S/Ps in place for hypertension ranged from 0 to 13 (mean, 6.9) and 0 to 8 for diabetes (mean, 5.1). Meeting or exceeding the national mean QI percent score for controlled blood pressure (62.4%) was significant among FQHCs with 9 or more P/S/Ps compared with those with 8 or fewer P/S/Ps. A positive association in clinical QI percent score was found among organizations that had 3 or more P/S/Ps (for all 4 intervention areas), although none were significant.

Conclusion
An assessment of the types of P/S/Ps used to implement evidence-based interventions for hypertension and diabetes management is a first in Illinois. Initial results support some relationship between the number of P/S/Ps implemented and clinical QI percent score for both hypertension and diabetes.

Introduction
Hypertension and diabetes are risk factors for cardiovascular disease (CVD) and related conditions and can lead to premature death (1). Approximately 1 in 7 health care dollars is spent on CVD (2). In the United States, hypertension affects nearly 78 million adults aged 18 years or older and is a major modifiable risk factor for other CVDs and stroke. Additionally, it is estimated that 1 in 9 adults in the United States have diabetes (1). Diabetes (blood glucose) management plays a critical role in prevention of CVD (3).
Long-term complications of high glucose levels and type 2 diabetes mellitus include CVD, renal failure, nerve damage, and retinal damage (4).

A comprehensive approach that incorporates evidence-based interventions is critical to address the multiple comorbidities and risk factors of CVD. Interventions adopted by health systems to address hypertension, diabetes, and other chronic diseases have shifted toward using a population health management approach (an interdisciplinary, customizable approach that allows health departments to connect practice to policy for change to happen locally [5]) for improved disease management and coordination of care. This is even more important in underserved communities, specifically among Federally Qualified Health Centers (FQHCs), given their resource-constrained environment (6) and the high-risk populations they serve.

Studies show a higher prevalence of hypertension and diabetes among populations served by FQHCs, such as minority and low-income groups (7–9). Nationally, FQHCs provide health care services to people who are geographically isolated or economically or medically vulnerable. Investments in FQHCs reduce costs for local health care systems and provide economic benefits for surrounding communities (10). FQHCs track demographic, clinical quality, and cost of care data and provide annual reports via the Uniform Data System (UDS) to the Health Resources and Services Administration (HRSA). Clinical quality improvement (QI) percent scores are national measures monitored by HRSA among FQHCs that receive federal funding and are used to monitor and improve the quality of perinatal, chronic disease, and preventive care services. These measures typically align with health care and public health measures such as Healthy People 2020. For controlled blood pressure, a higher clinical QI percent score is better (ie, more patients with controlled blood pressure) whereas for poor glycemic control a lower clinical QI percent score is better (ie, fewer patients with poor glycemic control). Given the variability of resources, organizational supports, community linkages, and information technology infrastructure, the ability of FQHCs to implement evidence-based interventions and improve QI percent scores can vary widely. The aim of this study was to understand variations in clinical QI percent scores by the types of evidence-based interventions implemented in support of hypertension and diabetes management within FQHCs in Illinois in 2016.

Methods

Database and survey instrument

This is a cross-sectional study using data from the 2017 Illinois Health Information Systems Survey (IL-HISS). The IL-HISS was developed as an original survey to support performance monitor-
Chi-squared and Fisher exact test (for cells less than 5) were used to test significant differences in clinical QI mean scores (hypertension and diabetes) for systems with less than 3 versus 3 or more P/S/Ps cumulatively (across all intervention types) as well as within each intervention. Further analysis was conducted to understand the variation of the number of P/S/Ps overall and within a specific evidence-based intervention, looking specifically at meeting or exceeding Healthy People 2020 goals (13) and the 2016 national UDS mean clinical QI percent score (14) for controlled blood pressure (61.5% and 62.4%, respectively) and poor glycemic control (16.2% and 32.1%, respectively). Respondents were dichotomized on the basis of the total number of P/S/Ps selected overall and within intervention. Overall P/S/Ps were grouped based on being above or below the midpoint of the maximum number of possible P/S/Ps; 0 to 8 versus 9 to 16 for controlled blood pressure overall, 0 to 4 versus 5 to 8 for poor glycemic control overall, and 3 or more P/S/Ps for within-intervention analysis. For all analyses, P < .05 was considered significant.

Results

Demographic and clinical characteristics for hypertension and diabetes varied slightly but were not significantly different between patients of survey respondents and nonrespondents. A higher mean difference between respondents and nonrespondents was noted for all racial/ethnic groups as well as for uninsured patients, but was not significant. In addition, the mean for the number of patients with hypertension and diabetes varied by less than 0.5%, and the centers’ clinical QI percent scores for the number of patients with controlled blood pressure and poor glycemic control varied by less than 2.5% between respondents and nonrespondents; both findings were not significant.

Survey respondents had a mean patient population of 23,784 (minimum, 2,658; maximum, 102,739). All respondents indicated having an EHR, 84.3% achieved Patient Centered Medical Home accreditation, 78% reported national quality measures for both hypertension and diabetes, and 53.1% used supplemental EHR software packages for QI interventions in 2016. Out of a maximum allowable P/S/P score of 16 for hypertension (4 P/S/P categories across 4 interventions), the mean number of P/S/Ps related to controlled blood pressure interventions was 6.9 (95% confidence interval [CI], 5.5–8.3) (Table 1). Out of a maximum allowable P/S/P score of 8 for diabetes (4 P/S/P categories across 2 interventions), the mean number of P/S/Ps related to poor glycemic control interventions was 5.1 (95% CI, 4.3–5.9). The mean UDS clinical QI percent score for controlled blood pressure was 64.9% and poor glycemic control was 33.1%, compared with the UDS mean of 62.4% and 32.1%, respectively (14). FQHCs that met or exceeded the Healthy People 2020 target of 61.5% for controlled blood pressure had an average of 7.7 P/S/Ps versus 6.1 P/S/Ps among those that did not meet the target. FQHCs that met or exceeded the Healthy People 2020 target of 16.2% for poor glycemic control had 5.0 P/S/Ps versus 4.7 among those that did not meet the target (Table 1).

The most frequent P/S/P categories across hypertension and diabetes combined were internal programs/workflows (78.1%), huddles (65.6%), EHR alerts/tracking tools (53.1%), and case manager/coordinator interaction (40.6%) (Figure). These frequencies were consistent when looking at hypertension and diabetes alone.

The highest percentage of P/S/Ps was the use of internal programs/workflows for the following interventions: referral to self-management programs for hypertension (81.2%; 95% CI, 66.9–95.5), referral to self-management programs for diabetes (80.6%; 95% CI, 65.9–95.4), and team-based care for diabetes (75.0%; 95% CI, 59.1–90.7) (Table 2). Huddles and EHR alerts/tracking tools were implemented more frequently for team-based care interventions for hypertension (62.5% and 56.3%) and diabetes (68.8% and 62.5%) than for other types of interventions. The use of a case manager/coordinator interaction was implemented more often for team-based care for diabetes (40.6%), referral to self-management...
programs for diabetes (37.5%), and self-management plan for hypertension (37.5%) than for other types of interventions (Table 2).

For controlled blood pressure, there was a significant difference (P < .05) in meeting or exceeding the national mean clinical QI percent score among FQHCs that implemented 9 or more P/S/Ps. Within each intervention category, there was a positive association between the percentage of FQHCs that had 3 or more P/S/Ps in place and met or exceeded the national mean clinical QI percent score for all hypertension and diabetes interventions. However, none were significant (Table 3).

Discussion

FQHCs achieve higher clinical QI percent scores for their patients with diabetes and hypertension compared with the national average (17). However, variation exists around what types and how many P/S/Ps are used to implement those evidence-based interventions among Illinois FQHCs. The FQHCs that responded to the IL-HISS indicated a high level of commitment to quality based on positive responses around Patient Centered Medical Home accreditation, meaningful use, use of supplemental QI software, and other attributes. In addition, our study showed that there was a positive association in the number of interventions implemented and mean clinical QI percent score for controlled hypertension (linear relationship) and poor glycemic control (inverse relationship).

National policy changes, such as Medicaid expansion, could have had an impact on the UDS clinical QI percent scores for FQHCs in Illinois (10). One study found that at federally funded community health centers, Medicaid expansion was associated with improved clinical quality for 4 of the 8 measures examined: asthma treatment, Papanicolaou testing, body mass index assessment, and controlled blood pressure (18). Additionally, our study did not account for patient-specific demographics and other factors like medication adherence, encounter frequency, and health literacy that affect chronic disease management (19–21). IL-HISS data are based on self-reported data. The study was cross-sectional and cannot conclude that the improved scores were due to the number or types of P/S/Ps implemented, only the association with them. Lastly, there is a possibility of nonresponse bias as a result of the methods used to collect these data.

There is growing evidence that use of P/S/Ps across health systems to improve the quality of chronic care is effective and vital to improving health outcomes (22). Our study focused on a subset of elements that address systematic supports around the implementation of evidence-based interventions that affect clinical QI percent scores. It may be useful to the public health community to study these elements in more detail. These could include availability of community resources, the level of leadership and decision support, and systems of care design to further assess interactions between health systems, care teams, and patients (23). The information gathered for our study will be used to improve training and technical assistance for FQHCs; specifically, in areas where gaps were identified (eg, increase the use of evidence-based interventions for blood pressure self-monitoring and self-management plans). Although the results of our study are not generalizable across states, they might be valuable for other states, territories, and local health jurisdictions to replicate this type of analysis to inform effective mechanisms (ie, types of P/S/Ps) that can be used to implement and sustain evidence-based interventions for hypertension and diabetes.

Initial results support some relationship between the number of P/S/Ps implemented and clinical QI percent score for both hypertension and diabetes. Given constraints in resources, staff time, and organizational infrastructure to support new or enhanced QI efforts, health systems would benefit from knowing what P/S/Ps work best for their organization. As the narrative around health care management and quality evolves, so too should the understanding around what composites of P/S/Ps have the greatest impact on health care outcomes for hypertension and diabetes.

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Table 1. Policies, Systems, and Processes (P/S/Ps); Clinical Quality Improvement (QI) Percent Scores; and Healthy People 2020 Targets for Controlled Blood Pressure and Hemoglobin A\textsubscript{1c} >9%, Illinois, 2016

| Category                          | No. of P/S/Ps | Clinical QI Percent Score\(^a\) | Mean No. of P/S/Ps\(^b\) |
|-----------------------------------|---------------|---------------------------------|--------------------------|
|                                   | Mean (95% CI) | Minimum | Maximum | Mean | SD | Below 2020 Target | Above 2020 Target |
| Controlled blood pressure\(^c\)   | 6.9 (5.5–8.3) | 49.3%    | 85.4%   | 64.9% | 8.9 | 6.1           | 7.7           |
| Hemoglobin A\textsubscript{1c} >9%\(^d\) | 5.1 (4.3–5.9) | 13.9%    | 62.0%   | 33.1% | 11.6 | 5.0           | 4.7           |

\(^a\) Clinical QI percent score data collected from the Health Resources and Services Administration Uniform Data System, 2016 Illinois Report (14).

\(^b\) Mean number of P/S/Ps calculated and grouped as being above or below the Healthy People 2020 target for controlled high blood pressure (61.5%) (15) and for poor glycemic control (16.2%) (16).

\(^c\) Controlled blood pressure = percentage of patients aged 18–85 years who had a diagnosis of hypertension and whose blood pressure was adequately controlled (<140/90 mm Hg) during the measurement period. Higher percentage score indicates positive clinical outcome.

\(^d\) Hemoglobin A\textsubscript{1c} >9% = percentage of patients aged 18–75 years with diabetes who had hemoglobin A\textsubscript{1c} >9.0% during the measurement period. A lower percentage score indicates positive clinical outcome.
Table 2. Percentages of FQHCs Indicating Use of P/S/Ps, by Evidence-based Intervention and P/S/P Category, Illinois, 2016

| Evidence-based Intervention | P/S/P Category | Internal Programs/Workflows, % (95% CI) | Huddles<sup>a</sup>, % (95% CI) | EHR<sup>a</sup> Alerts/Tracking Tools, % (95% CI) | Case Manager/Coordinator, % (95% CI) |
|-----------------------------|-----------------|----------------------------------------|---------------------------------|-----------------------------------------------|-------------------------------------|
| Referral to self-management programs | | | | | |
| Hypertension | | 81.2 (66.9–95.5) | 43.8 (25.6–61.9) | 34.4 (17.0–51.8) | 21.9 (6.7–37.0) |
| Diabetes | | 80.6 (65.9–95.4) | 59.4 (41.4–77.4) | 34.4 (17.0–51.8) | 37.5 (19.8–55.2) |
| Team-based care | | | | | |
| Hypertension | | 59.4 (41.4–77.4) | 62.5 (44.8–80.2) | 56.3 (38.1–74.4) | 28.1 (11.7–44.6) |
| Diabetes | | 75.0 (59.1–90.7) | 68.8 (51.8–85.7) | 62.5 (44.8–80.2) | 40.6 (22.6–58.6) |
| Blood pressure self-monitoring | | | | | |
| Hypertension | | 34.4 (17.0–51.8) | 40.6 (22.6–58.6) | 40.6 (22.6–58.6) | 6.3 (0–15.1) |
| Self-management plan | | | | | |
| Hypertension | | 43.7 (25.6–61.9) | 21.9 (6.7–37.0) | 50.0 (31.7–68.3) | 37.5 (19.8–55.2) |

Abbreviations: CI, confidence interval; EHR, electronic health record; FQHC, Federally Qualified Health Center; P/S/Ps, policies, systems, and processes.

<sup>a</sup> Defined as 10-minute or less stand-up meetings used to foster communication in a clinical setting (11).
Table 3. Overall and Within Interventions at or Below the Mean National Uniform Data System Clinical Quality Improvement Percent Score for Controlled High Blood Pressure and Poor Glycemic Control, Illinois, 2016

| All P/S/P Categories (Combined) | % Did Not Meet | % Met or Exceeded | P Value$^b$ |
|--------------------------------|----------------|-------------------|------------|
| **No. with controlled blood pressure$^{cd}$** |                |                   |            |
| 0–8                            | 71.4           | 36.8              | .049       |
| 9–16                           | 28.6           | 63.2              |            |
| **No. with poor glycemic control (hemoglobin A1c >9%)$^{cd,e}$** |                |                   |            |
| 0–4                            | 68.8           | 64.7              | .81        |
| 5–8                            | 31.2           | 35.3              |            |
| **Interventions (3 or more P/S/Ps)$^f$** |                |                   |            |
| Referral (blood pressure)      | 28.6           | 42.1              | .49        |
| Team-based care (blood pressure)| 35.7           | 63.2              | .12        |
| Self-monitoring (blood pressure)| 7.1            | 21.1              | .37        |
| Self-management plan (blood pressure) | 7.1            | 36.8              | .10        |
| Referral (diabetes)            | 37.5           | 41.2              | .83        |
| Team-based care (diabetes)     | 37.5           | 64.7              | .12        |

Abbreviation: P/S/P, policies, systems, and processes.

$^a$ P/S/P categories were internal policies/workflows, huddles (10-minute or less stand-up meetings used to foster communication in a clinical setting [11]), electronic health record alerts/tracking tools, and case manager/coordinator interaction.

$^b$ P < .05 was considered significant.

$^c$ National mean Health Resources and Services Administration Uniform Data System score (2016) for controlled blood pressure, was 62.4% (14).

$^d$ $\chi^2$ test.

$^e$ National mean Health Resources and Services Administration Uniform Data System score (2016) for hemoglobin A1c >9% was 32.1% (14).

$^f$ Fisher exact test was used to test level of significance when sample size was <5.
Appendix. 2017 Illinois Health Information Systems Survey

Organizational Information:

1. Organization Name and Number of Sites
2. Current EHR system used within your organization and certification status
3. Does your organization use supplemental EHR software to support quality improvement and reporting efforts (eg, i2i, Azara, Mediquire, etc)?
4. What is the current status of Medical Home recognition within your organization?

Quality Reporting and Meaningful Use:

1. Has your organization reported on the National Quality Forum (NQF) Measure 0018 / Physician Quality Reporting System (PQRS) 236 in the past 12 months?
2. Has your organization reported on the NQF Measure 0059 in the past 12 months?
3. Does your organization use an EHR appropriate for treating patients (adults ≥18 years old) with high BP and/or diabetes?
4. Indicate the current stage (1, 2, or 3) of meaningful use and existing barriers to achieving meaningful use.

Electronic Health Record (EHR) Capabilities:

1. Does your EHR have the capability to generate a list of:
   a. Adult patients (≥18 years old) with high BP and their BP reading for the past 12 months?
   b. Adult patients (≥18 years old) that have high BP AND documentation of a self-management plan?
   c. Adult patients (≥18 years old) diagnosed with diabetes?
   d. Adult patients (≥18 years old) with an elevated blood glucose reading that are either undiagnosed as diabetic or that need follow-up?
   e. Adult patients (≥18 years old) diagnosed with diabetes with a HbA₁c reading >9%?

Policies, Systems, and Processes:

1. What current policies or systems are used to refer adult patients (≥ 18 years old) with high BP to self-management resources? Are referrals to self-management resources being tracked?
2. What current policies or systems are used to encourage a team-based care approach to high BP control?
3. What policies or systems are in place to encourage BP self-monitoring?
4. What are the policies or systems in place to encourage healthcare providers to prescribe a self-management plan to adult patients (≥18 years old) with high BP and record the plan in the EHR?
5. Describe the system and/or process to tracking referral of patients with diabetes to self-management programs in the community.
6. What existing policies or systems are in place to encourage a team-based care approach to HbA₁c control?
7. What existing policies or systems are in place to encourage referral of persons with prediabetes or at high risk for type 2 diabetes to a CDC-recognized lifestyle change program?
8. Describe the system and/or process to tracking referral of persons with prediabetes or at high risk for type 2 diabetes to a CDC-recognized lifestyle change program.