

Promoting the Use of Health Information Exchange (HIE) in Action to Address Hypertension

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Outline

- Review CDC recommendations for state and local public health action to address hypertension
- Describe Health Information Exchange (HIE) infrastructure in New York including the Qualified Entities (QEs) and the Statewide Health Information Network for New York (SHIN-NY)
- Describe progress achieved implementing CDC Innovation Grant addressing hypertension and next steps



CDC Strategies for Public Health Action to Prevent and Control Hypertension



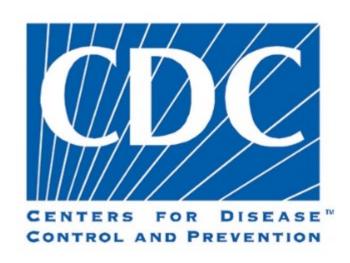
Track and Monitor Clinical Measures shown to improve healthcare quality and identify patients with high blood pressure and high blood cholesterol



Implement Team-Based Care for patients with high blood pressure and high blood cholesterol



Link Community Resources and Clinical Services that support bi-directional referrals, self-management, and lifestyle change for patients with high blood pressure, high blood cholesterol, and/or who have had a cardiac event





Health Information Exchange Infrastructure in New York

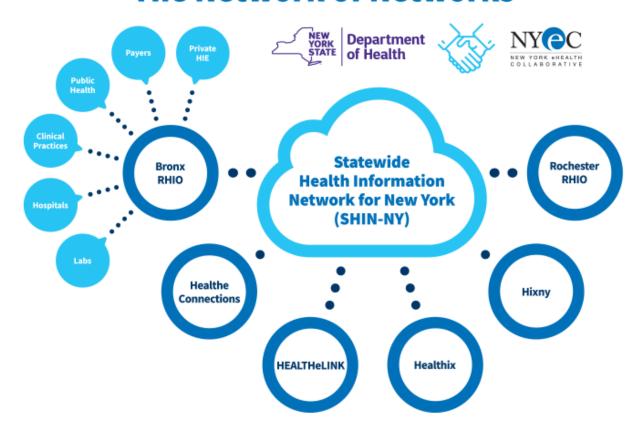
SHIN-NY

The SHIN-NY is the **Statewide Health Information Network for New York**. It enables interoperable data exchange to promote coordination of care to improve patient outcomes, reduce unnecessary and avoidable tests and procedures and reduce costs.

Qualified Entities (QE)

A Qualified Entity is a regional network where electronic health information is stored and shared. QEs enroll participants within their community, providing core services so they can access and exchange electronic health information with participants in their region.

SHIN-NY The Network of Networks



Which Providers Share Clinical Data with QEs?



- Home Health
 Agencies
- Community Hospitals
- Medical Centers
- Reference Laboratories
- Nursing Homes
- Primary Care Offices
- Specialty Care Offices



Source: New York eHealth Collaborative

SHIN-NY Services For Accessing Clinical Data

- QE Clinical Viewer website to search for patients and see clinical data
- 2. Statewide Direct Secure Messaging to exchange patient data with a specific provider (like secure email)
- 3. Notifications to receive patient event alerts (e.g., hospital admit)
- 4. Lab Results Delivery to receive diagnostic results and summary reports for labs ordered

SHIN-NY value studies, whitepapers, videos and other resources: http://www.nyehealth.org/shin-ny/value-of-hie/



Using Health Information Exchange to Address Hypertension

Because of their position within health care communities and their capabilities, New York's QEs are in a strong position to support action to address hypertension.





Key Capacities within QEs to Support Identification and Control of Hypertension



Measurement and Self-Service Reporting



To support clinical quality improvement, populate registries, enable population measurement, track performance and promote data quality



Registries and Alerts



To identify and track patients, promote best practices, initiate referrals, support teambased care and direct patients to appropriate evidence-based care pathways



Bi-directional Referral Capabilities

To support referrals and bi-directional communication between clinical providers and community lifestyle and self-management programs



Key Measures to Support Clinical Quality Improvement

Cardiovascular Disease (CVD)

- Undiagnosed Hypertension
- Hypertension Prevalence
- Hypertension Control
- Statin Therapy for ↑ Cholesterol*
- Atherosclerotic CVD Prevalence*

Diabetes and Prediabetes

- Undiagnosed Diabetes
- Diagnosed Diabetes
- Undiagnosed Prediabetes
- Diagnosed Prediabetes

Measure definitions are based on existing quality measures (NFQ, HEDIS) and use standard code sets identified by QEs.



^{*}in development

Approach to Collaboration with QEs

We have followed a common process to work with QEs on the development of measures and clinical and population health tools based on the measures.

Assess Build Pilot Promote

Refine

Progress to Date Collaborating with NY QEs on Hypertension Measures and Tools

Qualified Entity	Measurement	Registries or Alerts	Self-Service Reporting	Referral Tools
HealtheConnections				
Hixny				
Bronx RHIO				
Rochester RHIO	In process			
HealtheLink	In process			
Healthix	Planning			



Next Steps

- Build capacity to calculate HTN measures across all 6 QEs in the SHIN-NY.
- Promote the use of QE data and decision supports for measuring HTN and informing action (focusing on primary care practices, health plans and local health departments).
- Collect data and document successes to make the case for sustaining and expanding this work.



Thank You!

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Promoting the Use of Health Information Exchange (HIE) to Support Action to Address Hypertension

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October 29th, 2021

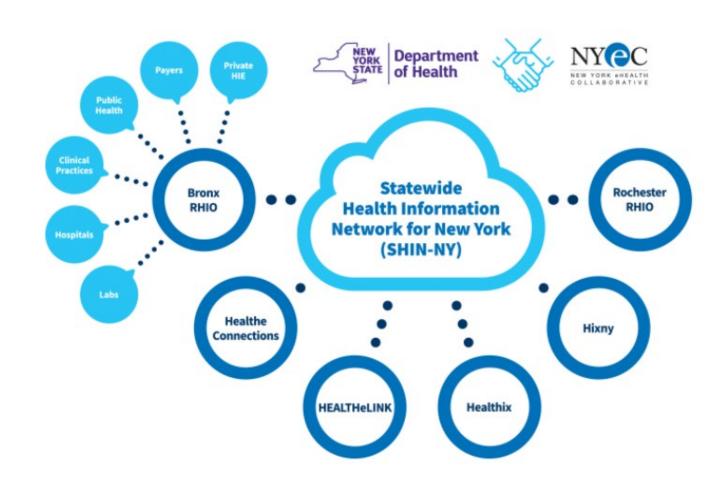


Hixny Data

- 44 hospitals (100%)
- 78% of physicians
- 87% of other regulated entities
- 6.4 million patient records
- 5.3 million consents



The Statewide Health Information Network of New York



Types of Data



Clinical



Administrative

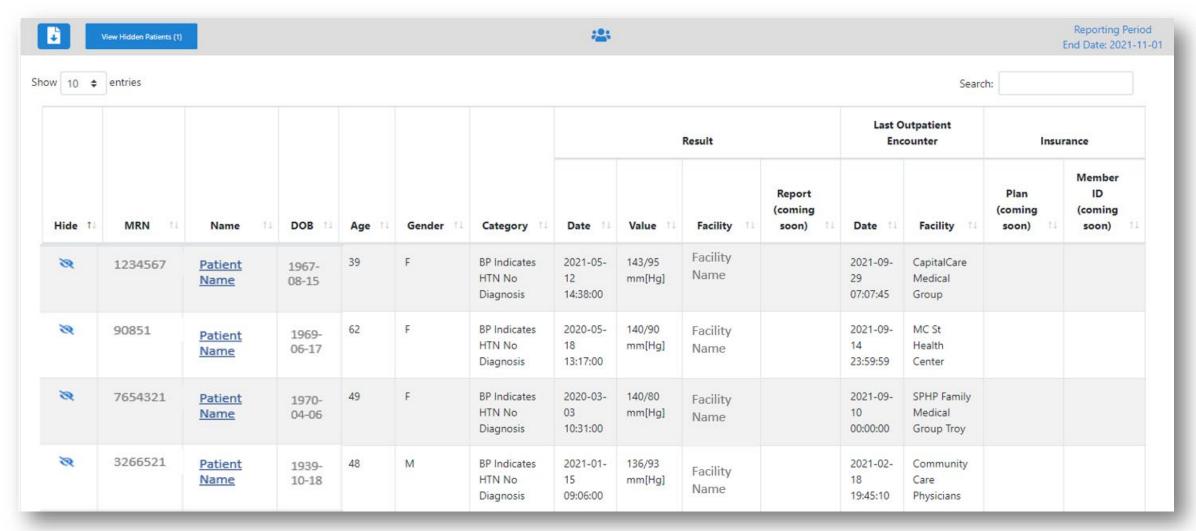


Social
Determinants
of Health

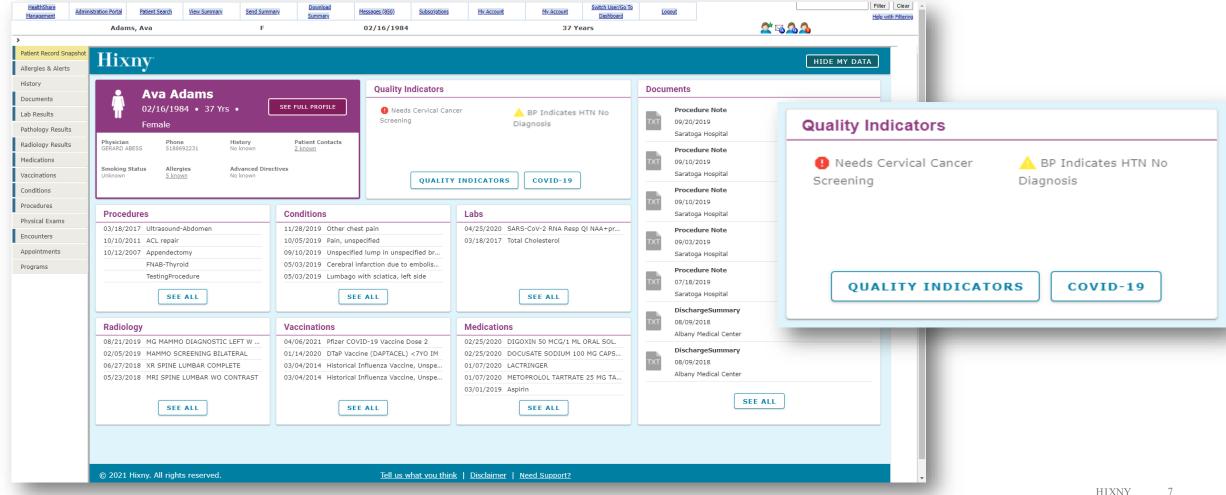


Patient Self-Reported

Hixny Hypertension Reports



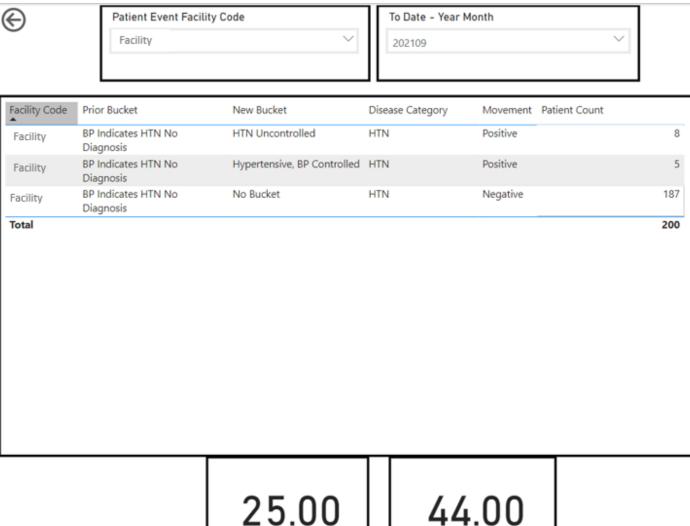
Hypertension Quality Indicator



Hixny's Patient Tracker Tool

- Hixny created the Patient Tracker Tool as part of our work with DOH
- The Patient Tracker Tool allows users to see the numbers of patients moving across chronic disease states in a specific time frame, including hypertension
- The Patient Tracker Tool also characterizes movement patterns as negative, positive, or neutral
- This data can be displayed at different levels:
 - Facility/multi-facility
 - County/multi-county
 - Patient

Hypertension in Patient Tracker Tool

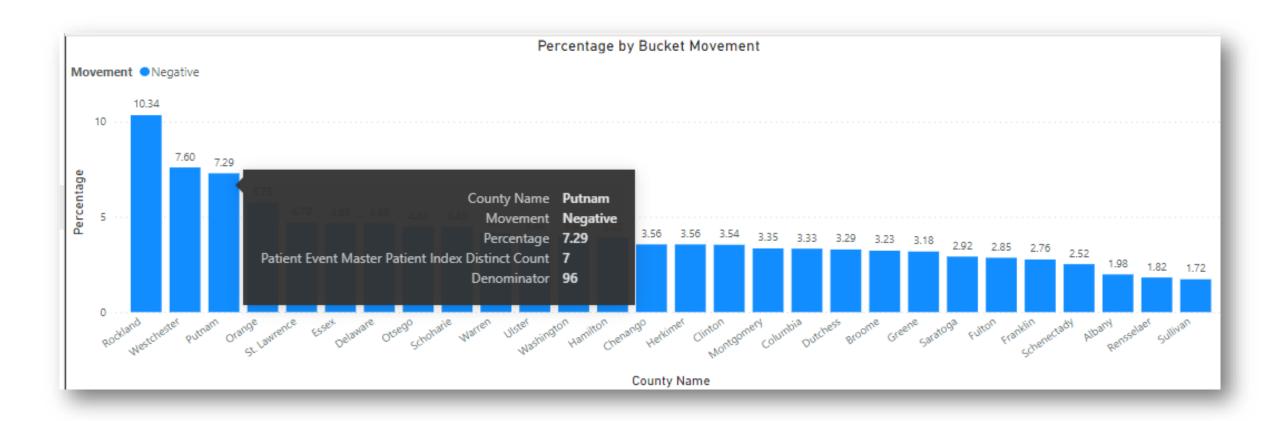


Pull Count

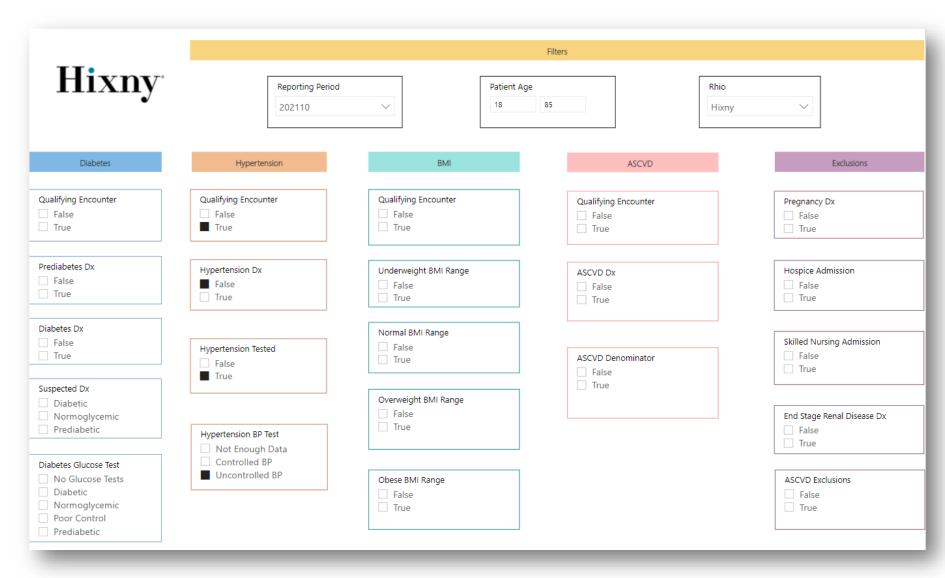
44.00 Push Count

9

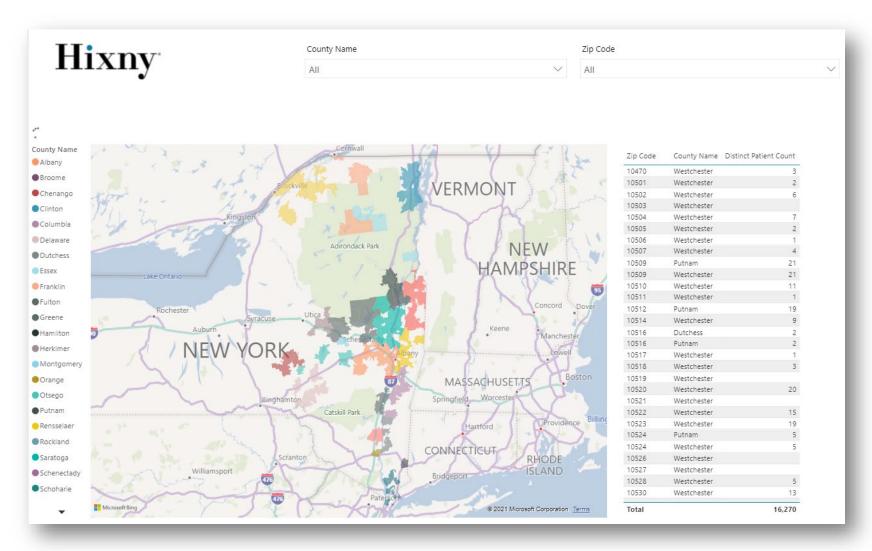
Patient Tracker Tool - County View



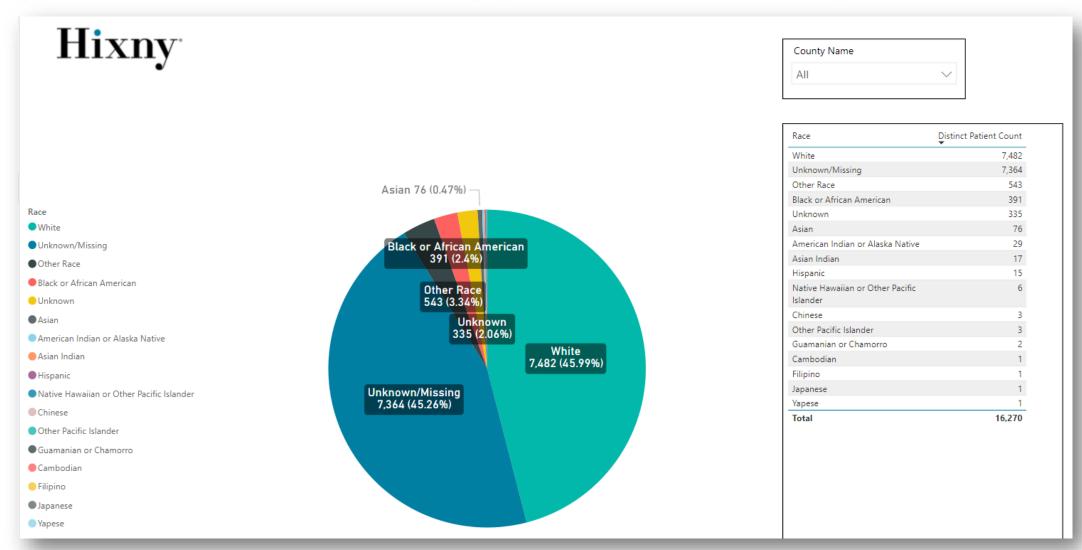
Hixny's Public Health Hypertension Reports



Hixny's Public Health Hypertension Reports



Hixny's Public Health Hypertension Reports



Questions

Thank You





HIE participants and data sources



More than 1,600 organizations across 4,200 locations are connected!

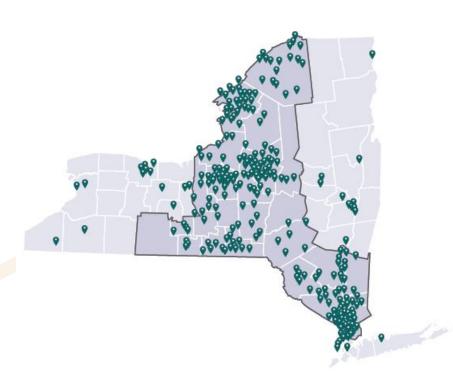
6 million patients are able to receive better care

26-county service area

440,000 unique patients accessed per month

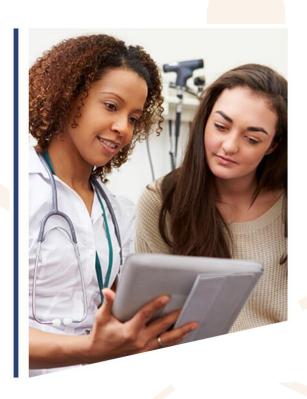
3.4 million clinical summary documents received each month

More than 600 organizations providing data



healtheconnections services





Patient Lookup

Real-time patient records at the touch of a button

Image Exchange

Real-time patient records at the touch of a button

Query-Based Exchange

Access information in state and from national databases

myResults

Labs, rads, and reports easily accessed or delivered directly

Community Referrals

HIPAA-compliant bidirectional referrals to community programs

myAlerts

Clinical alerts for hospital and ED admits, discharges and transfers

Results Delivery

Labs, rads, and reports easily access or delivered directly

Direct Mail

HIPAA-compliant secure mail & national provider directory

myData

Dashboards that allow users to better understand their patient profiles

myPopHealth

Self-service reports for health departments to estimate disease prevalence

CDC innovative grant activities



HealtheConnections' Tools for Action to

Support Identification and Control of Hypertension

- Population measurement (myPopHealth)
- Bi-directional referrals (**Community Referrals**)
- Registries, quality measures and alerts (myData)

myPopHealth

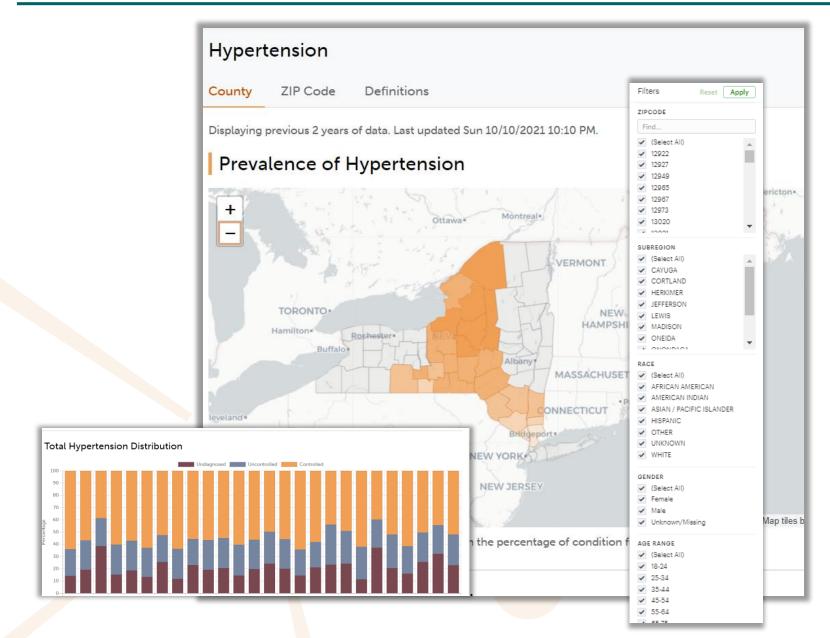


<u>Self-Service Reports for Population-level Measurements</u>

- CVD Measures Include:
 - Hypertension prevalence
 - Hypertension control
 - Undiagnosed hypertension
 - ASCVD prevalence
 - Statin therapy for cholesterol (in development)
- Filters for:
 - Geography (county, zip codes)
 - Demographics (age, gender, race/ethnicity)
- <u>Audience</u> NYSDOH and Local Health Departments
 - Aggregated/Deidentified data
- <u>Actions</u> focus interventions on high need areas and monitor trends in prevalence

myPopHealth self-service reports





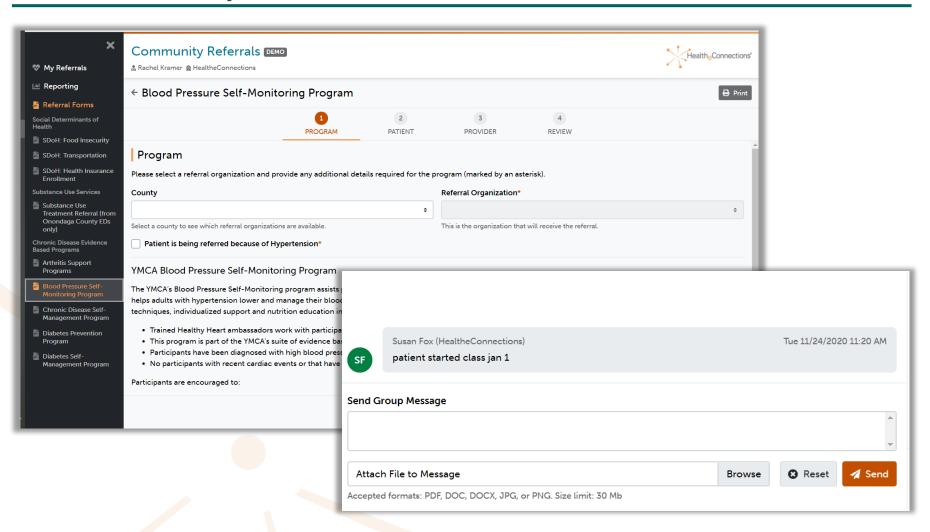
community referrals



- Bi-directional referrals
 - Safe and secure way for providers to send patient referrals for community-based services and programs
 - HIE embedded, HIPAA-compliant, bi-directional communication method – with messaging
 - HeC has promoted, recruited and trained practices to use Community Referrals
 - Referrals to BP Self-monitoring, SNAP services at Food Bank,
 NDPP, Chronic Disease self-management classes and others
 - Audience Healthcare providers and CBOs
 - <u>Actions</u> connect patients to services offered outside of healthcare setting, to improve health outcomes

community referrals



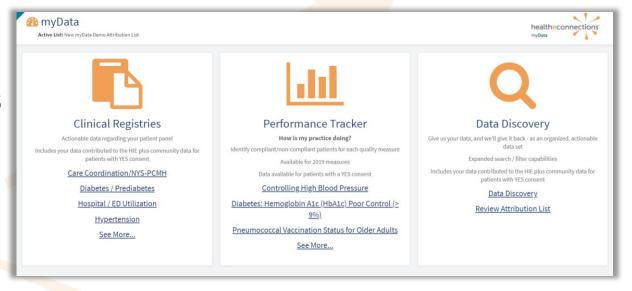


myData



myData allows a user to easily organize and understand their patient profiles, identify gaps, and test for quality measurement requirements.

- Clinical Registries
- Quality Measures
- Data Discovery
- Alerts



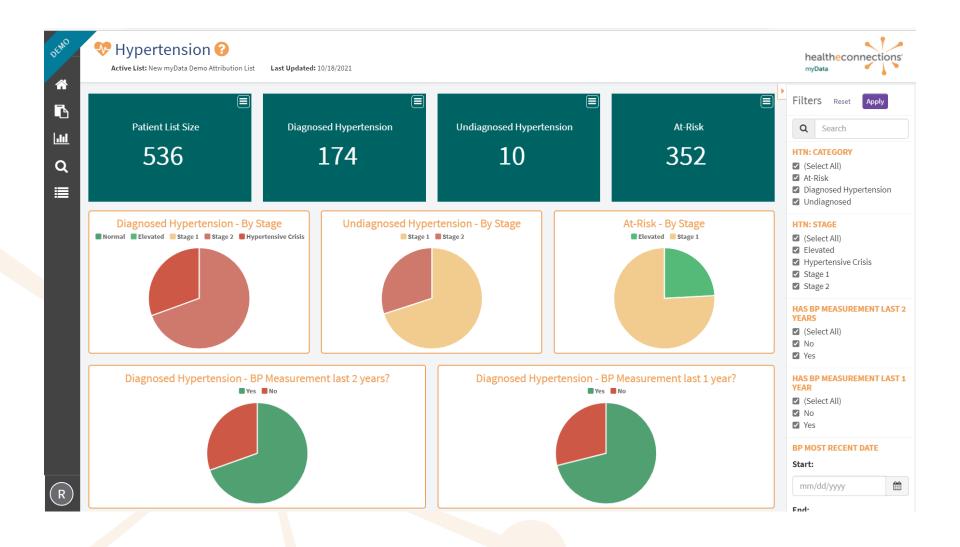
clinical registries



- View community-wide data vs. just information in EHRs
- Adheres to AHA/ACC clinical guidelines
- Helps support organization for PCMH accreditation
- Filters for:
 - HTN stage
 - Undiagnosed Hypertension
 - Last BP measurements
 - Co-occurring diabetes
 - Geography (county, zip codes)
 - Demographics (age, gender, race/ethnicity)
- Audience healthcare providers
- <u>Actions</u> target patient needs; follow up with patients needing BP measurement, not under control or undiagnosed; refer to services in community

clinical registries





provider alerts



- Built off of patient registry
- Identification of patients undiagnosed or uncontrolled hypertension
- Audience healthcare providers
- Actions target patient needs; follow up with patients not under control or undiagnosed

quality measures

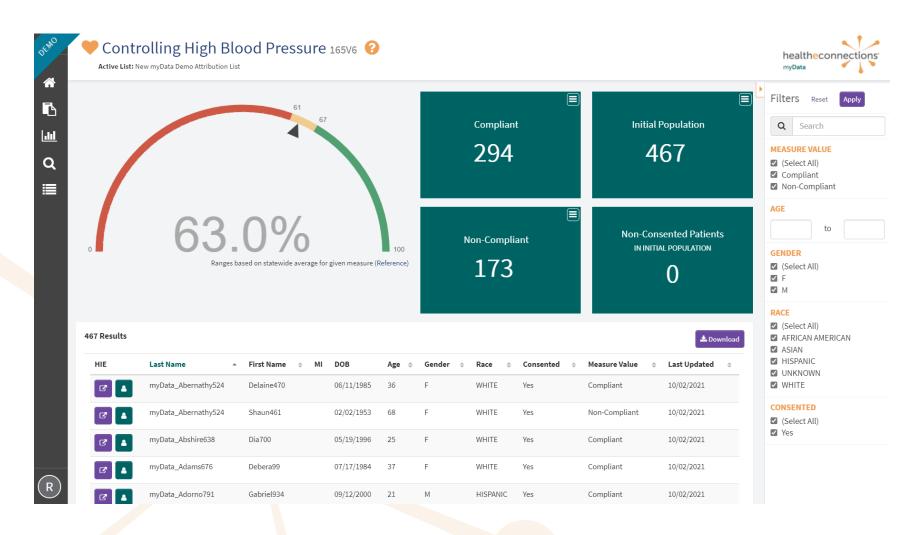


Hypertension Control

- Track practice performance against commonly used performance measures
- View community-wide data vs. just information in EHRs
- Data are timely, and the measurements are built into the reports as charts and graphs for easy visualization
- Audience healthcare providers
- <u>Actions</u> take action to improve performance; follow up with patients needing BP measurement, not under control or undiagnosed

controlling high blood pressure





Homepage - HealtheConnections



Thank you!

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