Celebrating 10 Years of Collaboration

February 7, 2017
City Club of Cleveland

Demonstrating the Power of Partnership
Better Health’s 18th Report to the Community
Better Health’s 18th Report to the Community

Cover stories over the past decade

Randall D. Cebul, MD, President and CEO
rdc@case.edu
Vision and Mission

To Help Northeast Ohio Become a Healthier Place to Live and a Better Place to do Business

By creating a safe space for health care competitors to collaborate
What has BHP done in the past decade?

- Over 10 years, Better Health has:
  - created safe places for competitors to collaborate; sharing best practices and common challenges
  - used trusted data from EMRs to measure & improve care
  - helped our members dramatically reduce disparities in care
  - saved costs for those who pay for care.
  - shortened the path to the Triple Aim of better care, better health, and lower costs
  - committed to identify and improve children’s health
  - recognized that “it takes a village” to address non-medical determinants of health outcomes
Safe Spaces
for Competitors to Collaborate
Learning Collaboratives: early focus on measurement and meaningful use of EHRs
Early Results in Diabetes: 33 of 34 clinics improved care and/or outcomes
Improving by Starting Over:
Stephanie Tubbs Jones’ 5th Anniversary
October, 2016
STJ Improves Diabetes Care: 2011-2016

https://betterhealthmembers.org//psr_dm_care_standards_overtime.asp

Best Improvement in the region

Huron Era | STJ Era
STJ: All 4 Measures Improved

* Come to Better Health’s 20th Learning Collaborative And FIND OUT! April 7, 2017

How did they do this?*
Anticipating Health Reform (2009)
Shortening the Path from Volume to Value (2012)
Can Better Care Lead to Better Health - and Lower Costs?

i.e.; can better diabetes care lead to fewer complications and hospitalizations?
Diabetes is the most common cause of lower extremity amputations.
Amputations in Cuy. County declined >50% (2009-14)
Averted Hospitalizations: Savings $9.2M

Amputations in Cuyahoga County

| Year | Lower Extremity Amputations |
|------|----------------------------|-----------------|
| 2008 | 504                        |
| 2014 | 249                        |

50%
• “As the twig is bent, so grows the tree”
  – Alexander Pope, 1734
  – Pamela B Davis, MD, PhD, 2015

• Initial Conditions: Children’s Obesity and Asthma
• Connecting Clinicians to Community Resources
  – Hot Spotting neighborhoods at high risk
  • Where resources exist – or should
Celebrating Your Achievements

Thomas E. Love, PhD
Chief Data Scientist
Better Health at 10
Where We Are and Where We’re Going
Celebrating YOUR Achievements

18th Report to the Community

Thomas E. Love, Ph.D.
Chief Data Scientist
betterhealthpartnership.org/data
Ten Years of Reporting Data Back to the Community

• Chronic health conditions via health records
  • Diabetes, High Blood Pressure, Heart Failure
  • Screening for depression and (now) for cancer
  • And now ... obesity and (soon) asthma in kids

• All adult patients seen in primary care
  • Dozens of practices, Hundreds of providers
  • Disparities and health equity

18 reports on Care and Outcomes
betterhealthpartnership.org/data
Ten Years of Reporting Data
Back to the Community

- **26,075** patients with diabetes
- **417** providers in **42** practices in six health systems
  - Care Alliance
  - Cleveland Clinic
  - Kaiser Permanente
  - MetroHealth
  - Neighborhood Family Practice
  - NEON
- **2008-09** heart failure
- **2009** high blood pressure
- **2012** depression screening
Electronic vs. Paper Health Records
A Key First Step toward Better Care
Electronic vs. Paper Health Records
A Key First Step toward Better Care

SPECIAL ARTICLE

Electronic Health Records and Quality of Diabetes Care

Randall D. Cebul, M.D., Thomas E. Love, Ph.D., Anil K. Jain, M.D., and Christopher J. Hebert, M.D.
Today’s Report:
2015-16 Care and Outcomes of NEO Adults with Chronic Conditions

781 providers
74 practices
Nine health systems
- Care Alliance
- Cleveland Clinic
- MetroHealth
- Neighborhood Family Practice
- NEON
- Cleveland VA
- Lake Health System
- North Coast Health
- St Vincent / Sisters of Charity

BHP patients cared for in safety net: 59% (Diabetes) or 56% (High BP).
Our 18th adult report: **196,898** people with DM, HBP, HF

Children’s Health Initiative pilot on obesity
+ **151,101** kids

Cancer Screening Pilot
+ **52,068** more adults ages 50-75

**400,067** people in Northeast Ohio now included in Better Health reports
Biggest Changes

Diabetes Insurance Distribution
2010-11 through 2015-16

OH Medicaid waiver then expansion ----->

% of Patients with Diabetes

2011    2012    2013    2014    2015
Uninsured
8.0     7.4     7.2     7.5     9.2     11.9    13.2    13.7    13.8    13.3    15.5    14.5    12.8
Medicaid
13.4    13.1    11.8    13.2    13.7    13.8    13.3    15.5    14.5    3.5     3.2     3.0     2.8
MetroHealth Care Plus: Effects of A Prepared Safety Net On Quality Of Care In A Medicaid Expansion Population

**Cost**: 28.7% ($167.36 per member-month) below federal expenditure cap [$41M across all enrollees]

... After 9 months of enrollment ...

Better care, Better Outcomes, Savings
BHP 2015-6 results on National (NCQA/HEDIS) measures

<table>
<thead>
<tr>
<th></th>
<th>Medicare</th>
<th>Commercial</th>
<th>Medicaid</th>
<th>Uninsured</th>
<th>Region</th>
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</thead>
<tbody>
<tr>
<td><strong>High BP</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>BP control</td>
<td>79.3</td>
<td>75.7</td>
<td>68.3</td>
<td>68.3</td>
<td>76.6</td>
</tr>
<tr>
<td><strong>Diabetes</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BP control</td>
<td>74.4</td>
<td>76.8</td>
<td>75.0</td>
<td>74.0</td>
<td>75.4</td>
</tr>
<tr>
<td>Eye Exam</td>
<td>71.0</td>
<td>63.0</td>
<td>54.2</td>
<td>53.0</td>
<td>65.3</td>
</tr>
<tr>
<td>A1c Test</td>
<td>95.5</td>
<td>94.2</td>
<td>95.3</td>
<td>95.4</td>
<td>95.0</td>
</tr>
<tr>
<td>A1c &lt; 7</td>
<td>48.1</td>
<td>45.4</td>
<td>38.3</td>
<td>37.2</td>
<td>45.5</td>
</tr>
<tr>
<td>A1c &lt; 8</td>
<td>71.8</td>
<td>67.4</td>
<td>56.2</td>
<td>56.3</td>
<td>67.7</td>
</tr>
<tr>
<td>Poor A1c (&gt; 9)</td>
<td>15.0</td>
<td>20.4</td>
<td>31.0</td>
<td>30.0</td>
<td>19.5</td>
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<tr>
<td>Kidney Monitoring</td>
<td>87.0</td>
<td>85.7</td>
<td>90.0</td>
<td>89.4</td>
<td>87.0</td>
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BHP Results vs. National Data

BHP better than National HMO Average

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We compare BHP uninsured patients to national Medicaid averages.
More details at betterhealthpartnership.org/data
BHP’s Core Measures

# of People Meeting Our Key Standards

- Diabetes Care:
  - 2007: 10,185, 39%
  - 2015-16: 24,969, 50%

- Diabetes Outcomes:
  - 2007: 9,533, 37%
  - 2015-16: 23,822, 48%

- Blood Pressure Control:
  - 2009: 66,969, 68%
  - 2015-16: 142,682, 77%
Colorectal Cancer Screening for Asymptomatic Adults 50-75

**NEW BHP PILOT Data from Seven Health Systems**

- **102,225 (68%)** of 150,264 eligible people have been screened.
- Adults ages 50-75 with at least 2 primary care visits in past 2 years and at least one such visit in the last year

<table>
<thead>
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<th>Screening</th>
<th>Medicare</th>
<th>Commercial</th>
<th>Medicaid</th>
<th>Uninsured</th>
<th>Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHP (n = 150,264)</td>
<td>72.2</td>
<td>68.7</td>
<td>57.4</td>
<td>50.9</td>
<td>68.0</td>
</tr>
<tr>
<td>National HMO Average</td>
<td>67.4</td>
<td>62.8</td>
<td>-- Not reported. --</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- 78% of these adults have their blood pressure below 140 / 90.
- 53% are not obese (BMI < 30), and 83% are not using tobacco.
Children’s Health Initiative

• Mid-2015: expansion endorsed by Better Health’s Board
• Deploying our collaborative model of measurement
  • Initial focus on obesity (pilot now) and asthma (2017), two conditions associated with non-medical determinants of health.
• Connecting clinicians with community resources

5 Pilot Systems (151,101 kids) for Childhood Obesity
Akron Children’s Hospital, Care Alliance, The MetroHealth System, Senders Pediatrics, UH Rainbow Babies & Children’s Hospital

<table>
<thead>
<tr>
<th>BMI Available</th>
<th>85-94 %ile</th>
<th>95+ %ile</th>
<th>Asthma</th>
</tr>
</thead>
<tbody>
<tr>
<td>126,850 kids</td>
<td>15%</td>
<td>17%</td>
<td>21%</td>
</tr>
</tbody>
</table>

9,853 kids with asthma and overweight/obese
CHI Obesity Pilot Study

54 practice locations, not including school-based clinics
43,404 Kids in Cuyahoga County included in the pilot study
6,483 Overweight and 7,972 Obese kids in the County
An Early Best Practice

% with Pneumococcal Vaccination
Top 10 Practices, and Region, 2007-08

% of Patients meeting standard
Minimum 50 patients with Diabetes, 2007-08
An Early Best Practice

% with Pneumococcal Vaccination
By Income Category, 2009-2014

<table>
<thead>
<tr>
<th>Income Level</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Income</td>
<td>68</td>
<td>72</td>
<td>76</td>
<td>80</td>
</tr>
<tr>
<td>Middle Income</td>
<td>76</td>
<td>80</td>
<td>84</td>
<td>84</td>
</tr>
<tr>
<td>High Income</td>
<td>84</td>
<td>84</td>
<td>84</td>
<td>84</td>
</tr>
</tbody>
</table>

Table 1. Improvement in Pneumonia Vaccination Rates
Patients with Diabetes
$7 Million Saved in Cuyahoga County

Details in our 16th Checkup
Potential NEW Best Practice
Eye Exam

System A has 7 of the top 10, 10 of the top 15 practices in 2015-16
Diabetes Care by Race/Ethnicity

% meeting Diabetes Care Standard
By Race/Ethnicity, from 2007-08 through 2015-16

- White
- Black or African-Am.
- Hispanic

Diabetes Care
✓ Hemoglobin A1c checked
✓ Kidney management
✓ Eye examination
✓ Pneumococcal Vaccination
Diabetes Care Disparities over Time
Comparing 2007-08 vs. 2015-16

Diabetes Care, 2007-2016
By Income Group

Diabetes Care, 2007-2016
By Place of Residence

Diabetes Care, 2007-2016
By Educational Attainment

Diabetes Care, 2007-2016
By Insurance

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February 7, 2017
Diabetes Outcomes

Disparities appear more persistent for diabetes outcomes.

**Diabetes Outcomes (meet at least 4 of 5)**
- Hemoglobin A1c below 8
- Blood pressure below 140/90
- Cholesterol in control
- Weight in control (BMI < 30)
- Not using tobacco
Care vs. Outcomes
2007 to 2015-16

Pneumococcal Vaccination

Hemoglobin A1c below 8
Progress in A1c < 8?

% with Hemoglobin A1c < 8
Top 10 Practices, and Region, 2015-16

<table>
<thead>
<tr>
<th>Better Health Partnership Practice</th>
<th>% of Patients meeting standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Better Health Partnership Practice</td>
<td>Minimum 50 patients with Diabetes, 2015-16</td>
</tr>
</tbody>
</table>

Two-Year Gain in % A1c < 8
Most Improved Practices

<table>
<thead>
<tr>
<th>Region</th>
<th>Rise in % with A1c &lt; 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Region</td>
<td>Min. 50 pts in 2013-14 &amp; 2015-16</td>
</tr>
</tbody>
</table>
High BP: BP Control over Time

Blood Pressure Below 140/90
Patients with High Blood Pressure, 2011 to present

% with BP < 140/90

2011 2012 2013 2014 2015

66 68 70 72

69.4 69.4 68.5 69.0 68.7 69.6 67.9 68.6 67.6 71.3
High BP: BP < 140/90 by ...

BP < 140/90 by Income
- High
- Middle
- Low

By Education
- High
- Middle
- Low

By Residence
- Outside CUY
- CUY suburbs
- CLE
High BP: BP < 140/90
1 year Improvement since 2014-15

Rise in % with Blood Pressure below 140/90
By subgroups, from 2014-15 to 2015-16

- Medicaid: 5.6%
- Hispanic: 5.4%
- Non-English: 3.9%
- Low Education: 4.8%
- Cuyahoga Suburbs: 3.6%
- Black or African-Am.: 3.5%
- Low Income: 3.4%
- Female: 3.3%
- Medicare: 3.2%
- High Education: 3.0%
- High Income: 2.9%
- English: 2.8%
- Middle Income: 2.8%
- ALL: 2.7%
- City of Cleveland: 2.7%
- Uninsured: 2.7%
- Middle Educ.: 2.6%
- Male: 2.4%
- White: 2.2%
- Commercial: 1.7%
- Outside Cuyahoga: 1.6%

1 year improvement in % BP < 140/90
Blood Pressure Control (< 140/90) Improvement since 2013-14

**System C**

BP Control

For improvement

6 of Top 10

Top 4 (Medicare)

Top 4 (Commercial)

4 of Top 5 (Medicaid)
Shari Bolen, MD, MPH
Director of Cardiovascular Disease Programs
Potential NEW Best Practice
Eye Exam

System A has
7 of the top 10,
10 of the top 15
practices
in 2015-16
% with Eye Examination
Top 15 Practices, and Region, 2015-16

- VA / New Philadelphia 85%
- Not VA 85%
- VA / Mansfield 85%
- VA / Parma 85%
- Not VA 84%
- VA / Painesville 82%
- Not VA 80%
- VA / Wade Park 80%
- VA / Sandusky 80%
- VA / Ravenna 79%
- VA / Youngstown 78%
- VA / Lorain 78%
- Not VA 77%
- Not VA 76%
- VA / Akron 76%
- Region 65%

% of Patients meeting standard
Minimum 50 patients with Diabetes, 2015-16

Potential Best Practice
Eye Exam
System A is the Cleveland VA
Hemoglobin A1c
A Potential New Best Practice?

% with Hemoglobin A1c < 8
Top 10 Practices, and Region, 2015-16

System B & A1c < 8
8 of top 10 in achievement
Top 5 in 2-year improvement
Hemoglobin A1c
A Potential New Best Practice?

% with Hemoglobin A1c < 8
Cleveland Clinic: 8 of Top 10 Practices

- CC/Solon: 80%
- Not CC: 80%
- CC/Chagrin: 78%
- CC/Willoughby Hills: 77%
- CC/Lakewood: 76%
- CC/Jacobs: 76%
- CC/Strongsville: 75%
- CC/Independence: 74%
- CC/Beachwood: 74%
- Not CC: 74%
- Region: 68%

System B is Cleveland Clinic
Blood Pressure Control (< 140/90) Improvement in Past Two Years

**Gain in % BP < 140/90**

Top 10: All Patients w/HBP

<table>
<thead>
<tr>
<th>Rank</th>
<th>Region</th>
<th>% Improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>29</td>
<td>13.4</td>
</tr>
<tr>
<td>2</td>
<td>20</td>
<td>12.4</td>
</tr>
<tr>
<td>3</td>
<td>9</td>
<td>11.4</td>
</tr>
<tr>
<td>4</td>
<td>34</td>
<td>11.1</td>
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<td>5</td>
<td>17</td>
<td>10.6</td>
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<td>6</td>
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<tr>
<td>10</td>
<td>23</td>
<td>8.5</td>
</tr>
<tr>
<td></td>
<td>Region</td>
<td>1.7</td>
</tr>
</tbody>
</table>

**Rise in % with BP < 140/90**

Min. 100 pts in 2013-14 & 2015-16

**System C**

BP Control

6 of top 10 in improvement

**Top 4** (Medicare)

**Top 4** (Commercial)

**4 of Top 5** (Medicaid)
Blood Pressure Control (< 140/90) Improvement in Past Two Years

Gain in % BP < 140/90
Top 10: All Patients w/HBP

- MH/West Park: 13.4%
- MH/J Glen Smith: 12.4%
- Not MH: 11.4%
- Not MH: 11.1%
- MH/Broadway: 10.6%
- MH/Buckeye: 9.7%
- Not MH: 9.1%
- Not MH: 8.8%
- MH/Sr. Health: 8.7%
- MH/McCafferty: 8.5%
- Region: 1.7%

Rise in % with BP < 140/90
Min. 100 pts in 2013-14 & 2015-16

System C is
MetroHealth
Gold Stars

Better Health is proud to honor **46** practices, representing **all 9** reporting health systems with 2015-16 Gold Stars.

Congratulations and Thank you to all of our Gold Star Practices!

**Please join us** for a picture in the foyer in just a moment...

---

**CARE ALLIANCE**  
Downtown Clinic - St. Clair

**THE CLEVELAND CLINIC**  
Beachwood Family Health Center  
Brunswick Family Health Center  
Chagrin Falls Family Health Center  
Fairview Hospital - Center for Family Medicine  
Independence Family Health Center  
Lakewood Family Health Center  
Main Campus  
Richard E. Jacobs Health Center  
Solon Family Health Center  
Stephanie Tubbs Jones Health Center  
Strongsville Family Health Center  
Willoughby Hills Family Health Center

**LAKE HEALTH SYSTEM**  
Newbury Family Practice  
Willoughby Internal Medicine

**THE METRO HEALTH SYSTEM**  
Beachwood Health Center  
Broadway Health Center  
Brooklyn Health Center  
Buckeye Health Center  
J. Glin Smith Health Center  
Lee-Harvard Health Center  
MetroHealth Medical Center  
Faculty/Residents Practice  
Family Medicine  
Internal Medicine  
Middleburg Heights November Family Health Center  
Old Brooklyn-Senior Health & Wellness Center  
Thomas F. McCafferty Health Center  
West Park Health Center

**NEIGHBORHOOD FAMILY PRACTICE**  
Detroit Shoreway Community Health Center  
Puritas Community Health Center  
Ridge Community Health Center  
Tremont Community Health Center

**NEON**  
East Cleveland Health Center

**NORTH COAST HEALTH**

**NORTHEAST OHIO VA HEALTHCARE SYSTEM**  
East Liverpool VA Outpatient Clinic  
Louis Stokes Cleveland VA Medical Center  
Mansfield VA Outpatient Clinic  
McCafferty VA Outpatient Clinic  
New Philadelphia VA Outpatient Clinic  
Painesville VA Outpatient Clinic  
Parma VA Outpatient Clinic  
Ravenna VA Outpatient Clinic  
Sandusky VA Outpatient Clinic  
Warren VA Outpatient Clinic

**ST VINCENT CHARITY MEDICAL GROUP**  
Suite 120 St. Vincent Medical Practice

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Working together to transform the health care system.

Transforming Health Care, Together

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