



## Southeast Minnesota Beacon Community

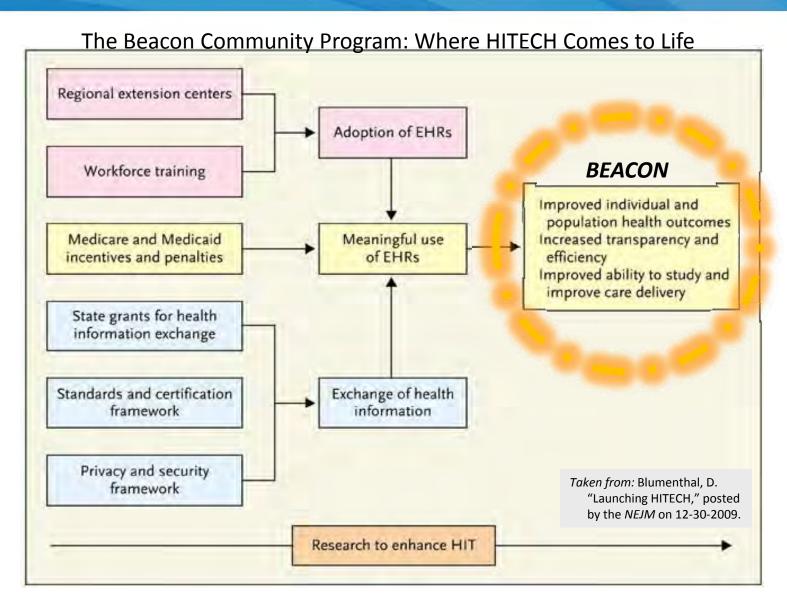
Harnessing Health IT From a Community Perspective

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## The Beacon Community Program: Where HITECH Comes to Life





#### 17 Beacon Communities Putting the I in Health IT **Bangor Beacon** Community Western New York Brewer, ME **Beacon Community** Buffalo, NY **Beacon Community of** Southeastern Minnesota **Rhode Island Beacon Inland Northwest Beacon Community** Community Southeast Michigan Spokane, WA Rochester, MN Providence, RI **Beacon Community** Detroit, MI **Keystone Beacon** Central Indiana Community **Beacon Community** Danville, PA Indianapolis, IN **Utah Beacon** Community **Greater Cincinnati** Salt Lake City, UT **Beacon Community** Colorado Beacon Cincinnati, OH Community Grand Junction, CO Southern Piedmont **Great Tulsa Health Access Beacon Community Network Beacon** Concord, NC San Diego Beacon Community Community Tulsa, OK San Diego, CA **Delta BLUES Beacon** Community Hawaii County Beacon Stoneville, MS Community **Crescent City Beacon Community** Hilo, HI New Orleans, LA 3

### **Beacon Community Aims**



### 17 grantees each funded ~\$12-15M over 3 yrs to:



**Build and strengthen** health IT infrastructure and exchange capabilities - positioning each community to pursue a new level of sustainable health care quality and efficiency over the coming years.



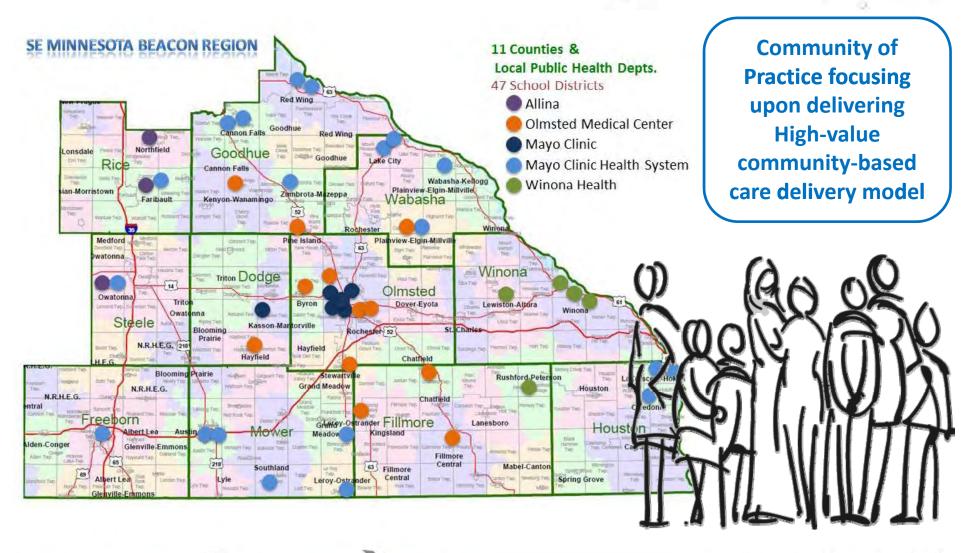
**Improve** cost, quality, and population health - translating investments in health IT in the short run to measureable improvements in the 3-part aim.



**Test innovative approaches** to performance measurement, technology integration, and care delivery - *accelerating evidence generation for new approaches*.











### Communities of Practice

- · Allina Health
- Mayo Clinic Health System
- Mayo Clinic
- Olmsted Medical Center
- Winona Health

11 Public Health Departments

Dodge, Fillmore, Freeborn, Goodhue, Houston, Mower, Olmsted, Rice, Steele, Wabasha, Winona 147 school districts in the 11 counties in SE MN

Home health facilities and nursing homes

### **3 Levels of Exchange Partners**

- Valuable Health Data
- Robust Infrastructure Capacity
- Meaningful Use Funding

- Valuable Health Data
- Limited Infrastructure Capacity
- No Meaningful Use Funding

- Valuable Health Data
- Limited Infrastructure Capacity
- No Meaningful Use Funding





## **Guiding Values**

Ensuring the values and preferences of informed patients are brought into our program through meaningful conversation.



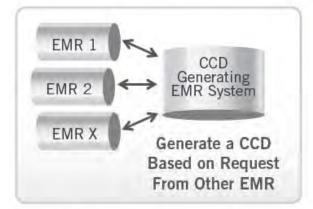
The SE Minnesota Beacon challenges the traditional healthcare models in our nation from provider centric to *patient-centric and community driven*. This commitment is woven into the very fabric of each project in our program.





### Peer – to – Peer HIE

### Generate





### **Exchange**



## Network-Compliant Protocols

### Parse & Consume



Recipient EMR parses and consumes information from transmitted CCD into discrete data fields – enabling efficient, clinician-friendly transitions, resulting in better care.

### View

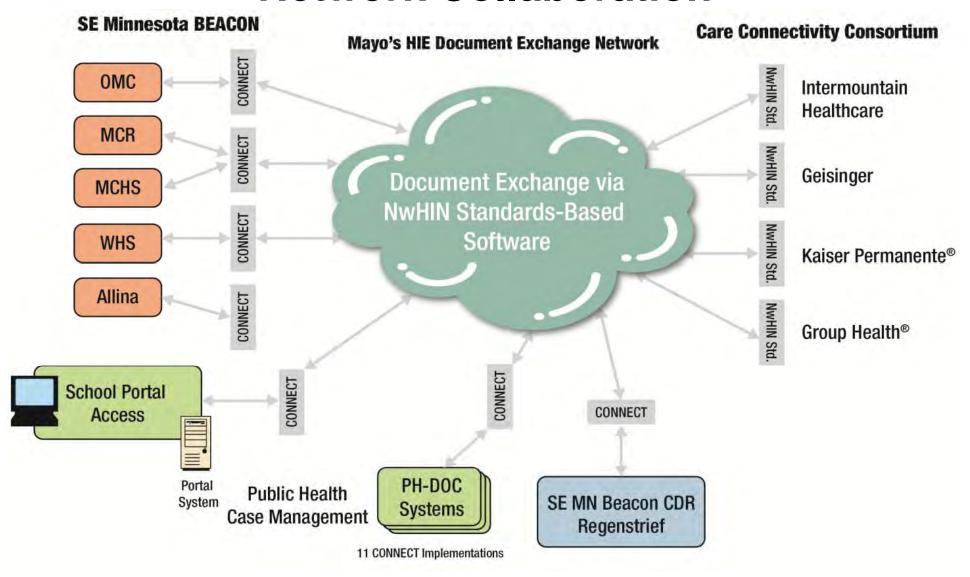








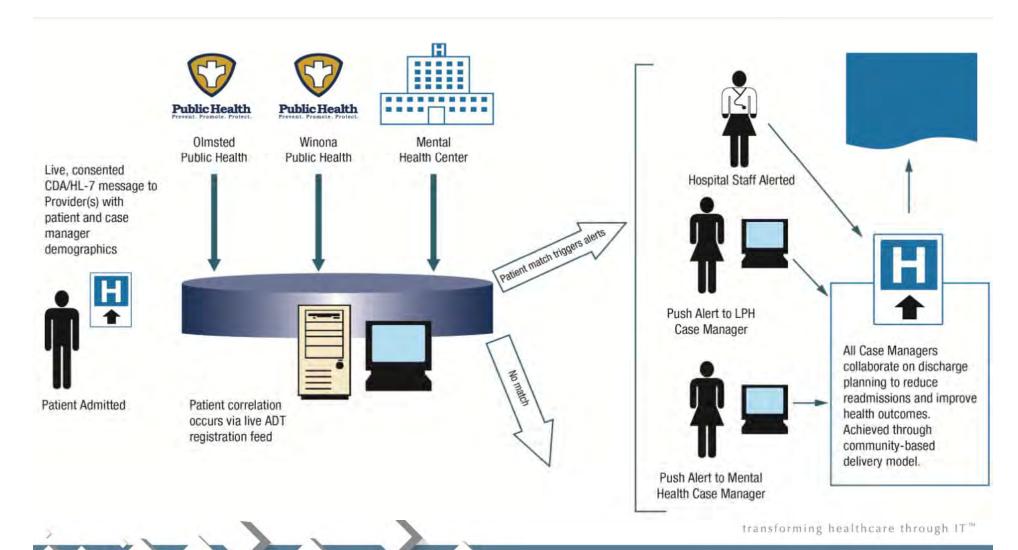
### **Network Collaboration**







### **Transitions of Care**

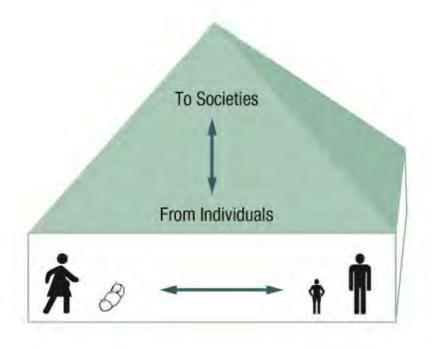






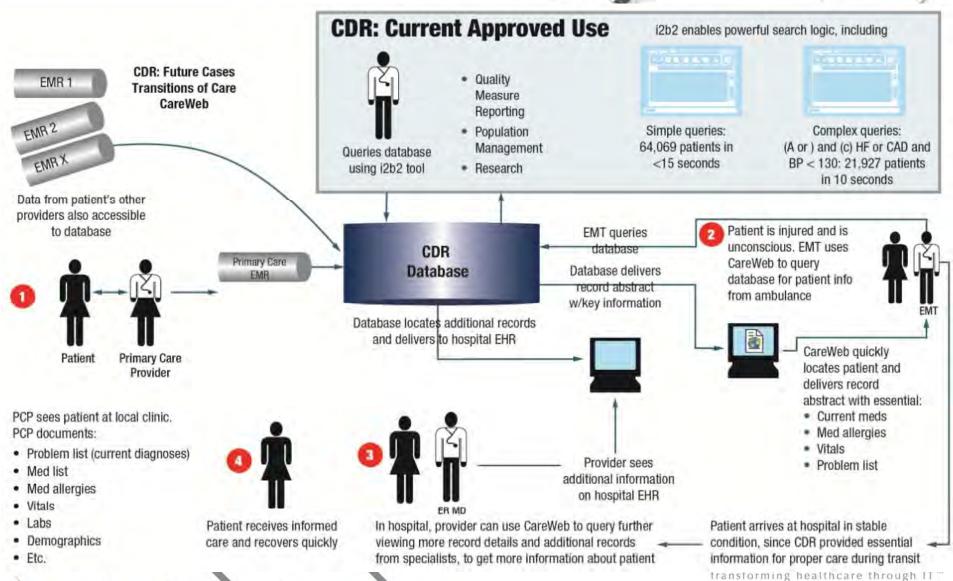
# Clinical Data Repository 'aka Community Data Repository'

- Hosted at Regenstrief Institute
- Site Clinical Repository
- Population Management
- Quality Measures Reporting
- Point of Care (Future Use)





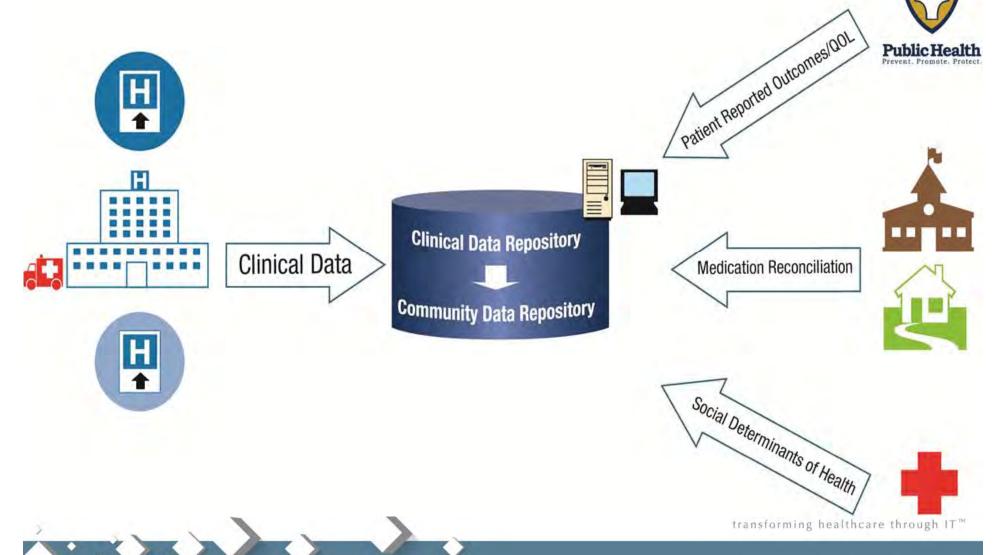








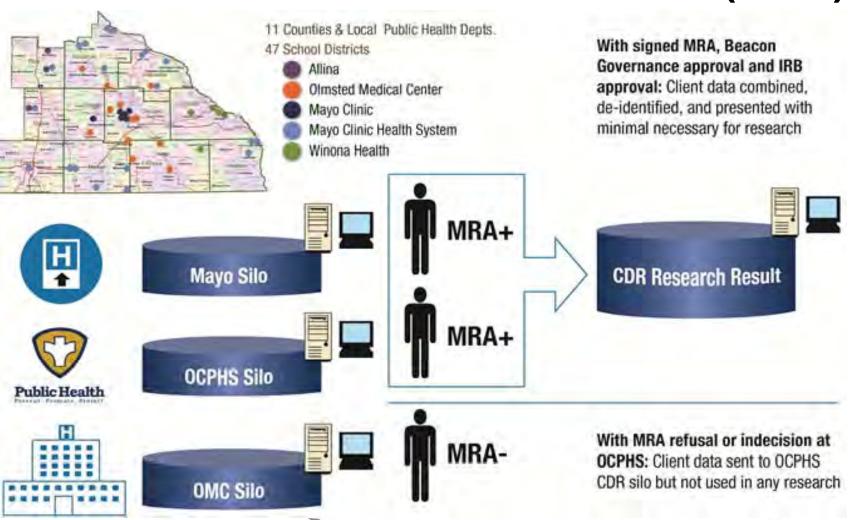
**Community Data Repository** 







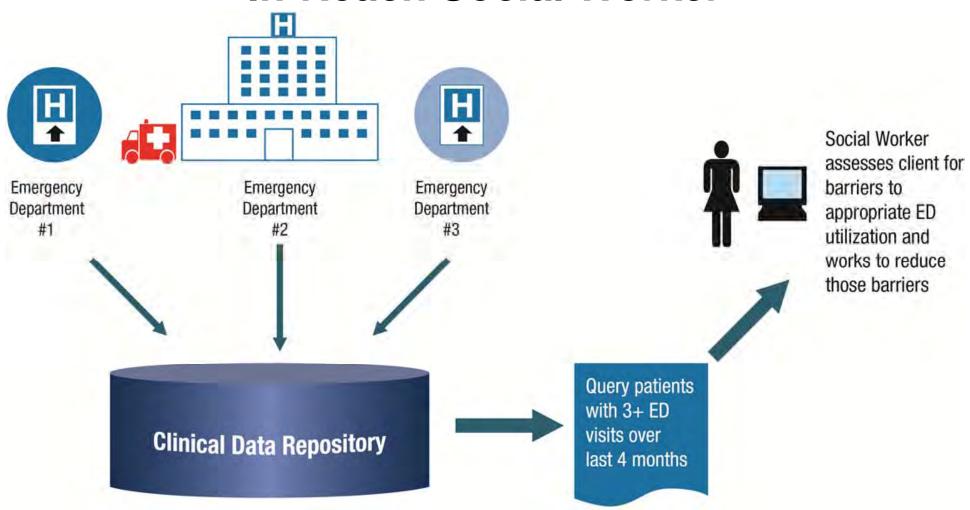
## Minnesota Research Authorization (MRA)







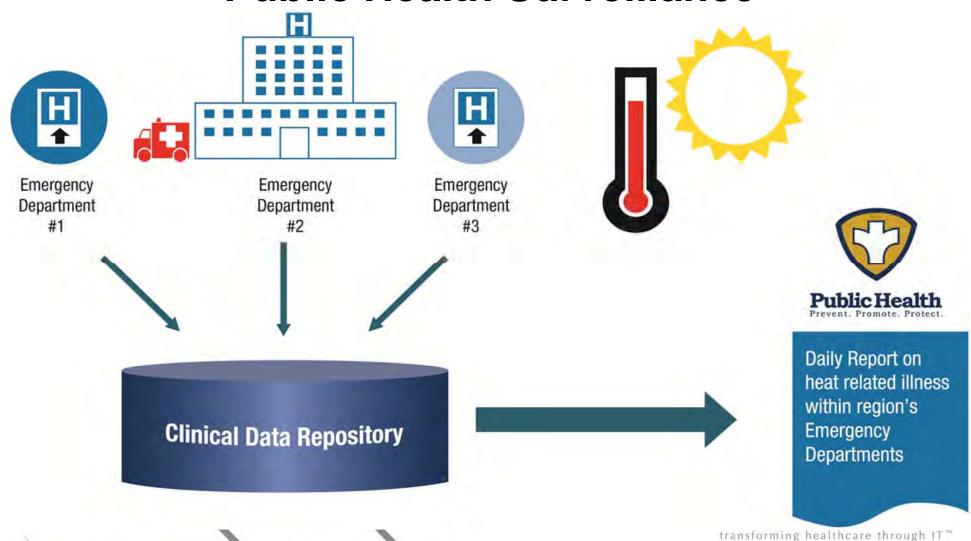
### **In-Reach Social Worker**







## **Public Health Surveillance**







## **School Portal Exchange of Care Plans**

S F T P (Flat file)

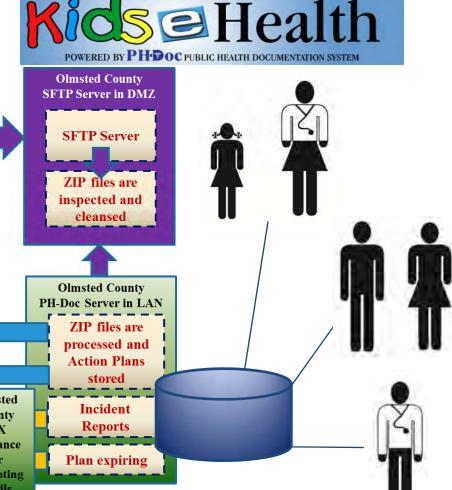
Internet

Email (no PHI)

Email (no PHI)

Secure Email (PHI)

Secure Email (PHI)



**CLINIC** 

DAILY FEED:

**Olmsted County** ZIX appliance for encrypting emails

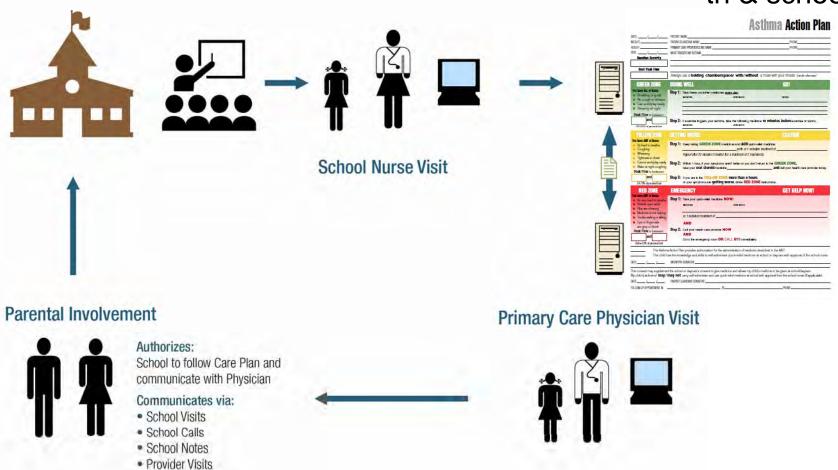


· Provider Portal



## Asthma 'Cocoon of Care'

Care Coordination between parents providers public health & schools.



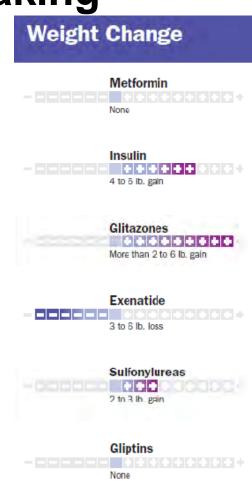




**Shared Decision Making** 







Create a two-way conversation that enables patients to participate in making decisions to the extent they prefer.

http://webpages.charter.net/vmontori/Wiser\_Choices\_Program\_Aids\_Site/Diabetes\_Choice\_files/diabetes.html

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# Filling in Data Gaps – Patient Centric Data PRO QOL WEB TOOL

please touch the picture that corresponds to your

single biggest concern





- Testing blood sugars
- Checking feet



- Sad
- Other emotiona concerns

### \$ money

- Cost of medicine or supplies
- Paying for care



- behaviorsDiet
- ExerciseSleep





 Taking medication

side effects

- Health
  ion insurance
- healthcare
  - alth Schedule
    urance Environment
  - Emergency/
    Urgent care
     work

work



- physical health
- Pain
   Fatigue
- FatiguePhysical difficulties

? something

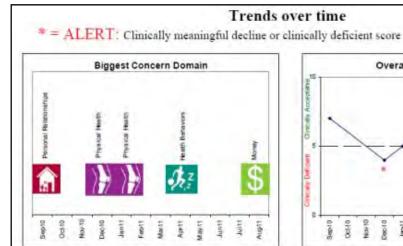
| Have you recently had any of the following problems or concerns? (Check all that apply) |  |   |   | lease  |       |   |      |       |      |      |       |       |    |                      |
|---|--|---|---|--------|-------|---|------|-------|------|------|-------|-------|----|----------------------|
|   | Problems paying your medical bills                           | your feelings <b>over the past month</b> from as bad as it can be to as good as it can be |   |        |       |   |      |       |      |      |       |       |    | 0                    |
|   | Problems paying for all the care yo                          |   |   |        |       |   |      |       |      |      |       |       |    |                      |
|   | Problems paying for all the medicing that you needed         | Your ove<br>as bad as<br>it can be  |   | qualit |       |   |      |       |      |      |       |       |    | as good              |
|   | Not maintaining health insurance c                           | II CHA CV   | 0 | 1      | 2     | 3 | 4    | 5     | 6    | 7    | 8     | 9     | 10 |                      |
|   | Skipped a recommended test or m                              | Your ove<br>as bad as<br>it can be  |   | ohysi  |       |   | eing |       |      |      |       |       |    | as good              |
|   | Not filled a prescription for a medi                         |   | 0 | 1      | 2     | 3 | 4    | 5     | 0    | 7    | 8     | 9     | 10 |                      |
|   |  | Your overall emotional well being:  |   |        |       |   |      |       |      |      |       |       |    |                      |
|   | Cut pills in half or skipped doses of                        | as bad as<br>it can be  | 0 |        | 2     | 3 | 4    | 5     | 6    | 7    | 8     | 9     | 10 | as good<br>it can be |
|   | Skipped dental, vision or mental he<br>visit because of cost | Your soc  |   |        | ction |   | oth  | er pe | ople | (far | nilv. | frier |    | r others             |
|   | Put off or postponed getting healt                           | as bad as<br>it can be  | 0 |        | 7     | 3 |      | 5     | 6    |      | 8     | 9     | 10 | as good<br>it can be |
|   | Something else   |   |   | •      | -     | - |      | -     |      | 7    | ū     |       | 10 |                      |
|   |  |   |   |        |       |   |      |       |      |      |       |       |    |                      |

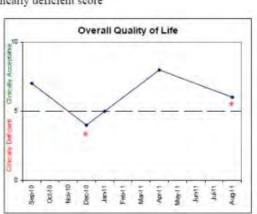




## "It is about time we were asked about these things beyond just glucose & A1C levels."

(Type I diabetes patient for over 30 years)











## **Legal Considerations**

- Business Associate Agreements between
  - Between or among Beacon participants
  - Beacon consortium and data repository
- Privacy Compliance:
  - Health Insurance Portability and Accountability Act (HIPAA)
  - Family Educational Rights and Privacy Act (FERPA)
  - Public Health Agency State Data Practices Act (DPA)
- Consent & Authorization Compliance:
  - Minnesota Standard Consent Form to Release Health Information
  - Minnesota Research Authorization statute
  - Federal protection of human subject research regulations
- Regional Exemption Obtained for State Certificate of Authority:
  - Health Information Exchange, Health Data Intermediary, Record locator service







### Thank You!

### Southeast Minnesota Beacon Program

Eleven Minnesota counties working to improve health care and health delivery systems.



#### Welcome to Beacon

Beacon is a community-based program to spotlight a variety of "best practice" approaches to improving health and health care delivery in the United States. Funded by the U.S. Department of Health and Human Services, through the Office of the National Coordinator for Health Information Technology, the Beacon Communities [see the Beacon videos] are a series of medical practice and research coalitions focusing on specific health conditions in their areas and utilizing and developing efficient systems based on their foundational expertise.

### Contact: hart.lacey@mayo.edu

Recent Posts
Beacon is beginning

Archives
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Categories
Select Category

Project Team Wiki
Project Team Wiki

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