





#### The SEM Beacon Award

• HITECH Act:

The **Health Information Technology for Economic** and Clinical **Health** (HITECH) Act,

- Enacted as part of the American Recovery and Reinvestment Act of 2009 – "The Stimulus Plan", was signed into law on February 17, 2009, to promote the adoption and meaningful use of health information technology.
- <u>Created:</u> The Office of the National Coordinator for Health Information Technology (The ONC)

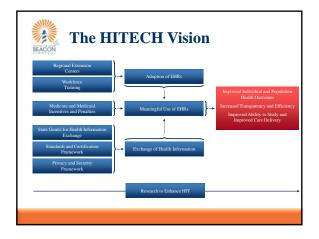


• Regional Extension Centers

#### ARRA-HITECH Funding Total = \$1.7 B

\$677 M

State Health Information Exchange \$564 M
 Workforce Training Programs \$118 M
 Beacon Communities \$265 M
 NHIN \$64 M (National Health Information Network)
 SHARP \$60 M (Strategic HIT Advanced Research Projects)





# **Beacon Overview:**Clinical Transformation Project

- \$265 M Nationwide 17 sites
- SEM award, \$16.225M, is the largest in nation
- Transform Health Care delivery and outcomes through the effective sharing and use of health information.
- 36 month project; SEM Proj: 31 months

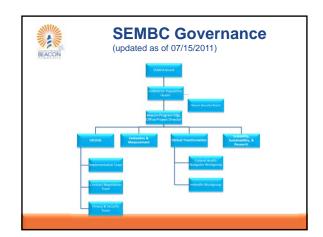






### The SEM Beacon Award: \$16.2 M

- Southeastern Michigan Health Assoc. -**SEMHA** 
  - Now the Awardee and Fiduciary for the Beacon Grant
  - The Beacon Grant will be implemented by SEMHA
  - Funded through American Reinvestment and Recovery Act of 2009 (ARRA):HITECH -Health Information Technology, Economic and Clinical Health Act - HITECH

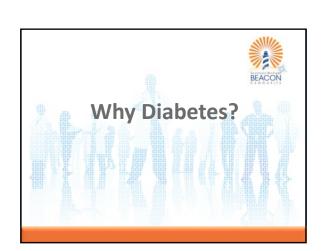




# Beacon Executive Board (BEB)

- Vernice Davis Anthony, Greater Detroit Area Health Council

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# Worldwide Prevalence of DM

- 2000: > 170 million people with DM
   70% developing countries
- est 2030: > 370 million people with DM
  - 73% developing countries
  - New 2011: > 345 million people with
  - Each Yr: 7 million people develop DM
  - Fach Yr: >3 million die of c/o DM

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Rank	Country	2000	2030
1	India	31.7	79.4
2	China	20.8	42.3
3	US	17.7	30.3



## The Toll of Unhealthy Lifestyles in MI:

- ☐ Chronic diseases are among the most common and costly diseases but also the most preventable
- 2 of every 3 deaths are caused by FIVE chronic diseases: heart disease, cancer, stroke, chronic lower respiratory disease, and diabetes
- ☐ But the REAL causes of most chronic diseases and leading causes of preventable death in Michigan are:
  - √ Tobacco use
    - √25% of MI children Tobacco users
  - Overweight and obesity:
  - √61% of Michigan adults are overweight or obese
  - ✓ Physical inactivity
- ☐ Michigan's total costs, including health care costs and productivity losses, are more than \$20 billion annually (\$6.5 Billion [33%] DM Alone)



#### **Diabetes Mellitus: Prevalance**

- Diabetes Mellitus prevalance is increasing through out the USA and the world in an epidemic proportion.
- Over 25 million people with diabetes in the USA
  - Prevalence of diabetes has increased by 49% over past decade
  - 25% are unaware they have the Disease
- Over 1.3 million in Michigan (300,000 unaware).
  - Michigan has the 7<sup>th</sup> highest diabetes prevalence rate in the United States.

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#### **Diabetes Mellitus:** Costs

- According to MDCH FY2010 DM in Michigan:
  - In 2004, the estimated direct and indirect costs of diabetes in Michigan were nearly
    \$6.5 billion.
  - -The average health care cost for a person with diabetes was \$13,243 compared with \$2,560 for a person without diabetes-
    - 5x the costs

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## Diabetes Mellitus: Detroit

- Diabetes Prevalance: US: 7.8%; MI: 10%;
  Detroit: 12.8% [many believe % closer to 16%]
- Diabetes represents 23% of all Detroit hospital discharges
- DRH Study 45% either pre-DM or DM

BEACON

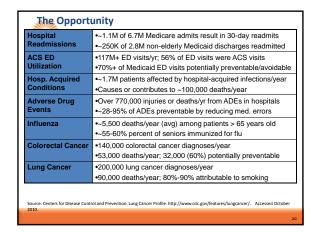
# Preventable Hospitalizations: Detroit

- ➤ More common in Detroit than in Michigan —404/10,000 vs 240/10,000 (69% more)
- ➤ Conditions with greatest difference:
  - Asthma: 50/10,000 vs 18/10,000 (174% more)
  - Diabetes: 25/10,000 vs 11/10,000 (132% more)



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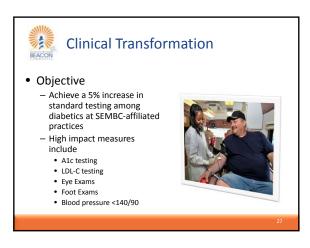




















- ALL intervention practices have implemented some form of Clinical Decision Support tool
- ALL practices: enrolled in MCEITA
- **76/123** physicians: registered for Medicare/Medicaid Meaningful Use incentives
- Engaging practices beyond clinical transformation in IT integration as HIE is closer to implementation

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#### Early Results: By the Numbers

- Compared to baseline measures, Q1 2012 (the first quarter of CT intervention activity), High Impact Clinical Measures are encouraging; diabetic patients . . .
  - who received foot exams increased 29%
  - who received LDL-C tests increased 5%
  - who had A1c testing increased 5%
  - with blood pressure readings <140/90 increased 6%

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