Wisconsin Collaborative Diabetes Quality Improvement Project

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UW Population Health Institute
Outline

• Background
• NCQA vs. WCHQ
• Methods
• HEDIS® Measures
• Results
  – Quality Improvement Initiatives
  – CDC Chronic Disease Program Integration
• Conclusions
Background

• Wisconsin Collaborative Diabetes Quality Improvement Project
  – Collaboration between:
    • Participating Wisconsin HMOs and health plans
    • Wisconsin Diabetes Prevention and Control Program
    • Wisconsin Division of Health Care Access and Accountability
    • Wisconsin Diabetes Advisory Group
    • University of Wisconsin Population Health Institute
## NCQA vs. WCHQ

<table>
<thead>
<tr>
<th></th>
<th>NCQA</th>
<th>WCHQ</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>History</strong></td>
<td>Established in 1990</td>
<td>Established in 2003</td>
</tr>
<tr>
<td><strong>Members</strong></td>
<td>Voluntary membership for all national health plans</td>
<td>Voluntary consortium of Wisconsin health plans, physician groups, healthcare purchasers, government agencies</td>
</tr>
<tr>
<td><strong>Measures</strong></td>
<td>71 HEDIS® measures across 8 domains of care</td>
<td>Set of performance measures healthcare organizations have agreed upon</td>
</tr>
<tr>
<td><strong>Data</strong></td>
<td>National-level comparison</td>
<td>Provider-level comparison</td>
</tr>
<tr>
<td><strong>Reporting</strong></td>
<td>State of Healthcare Quality Report (annual) including national average, 90th percentile</td>
<td>Performance and Progress Report – publicly available electronic database</td>
</tr>
<tr>
<td><strong>Member Accreditation</strong></td>
<td>Members can apply for accreditation and be eligible for ranking</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
Diabetes: Blood Sugar (A1c) Testing

This measure assesses the care of 133,912 patients with Diabetes. Read More About This Measure

Legend:
- Two or more tests
- One test

* Upper age limit changed from 85 to 75 years

Reporting Period: Q3 2008 - Q2 2009
Heart bypass surgery
Ratings of more than 200 groups

Read more  Watch our video

Quick Guide to Health Ratings
Get expert, unbiased and fact based information.
Create a Quick Guide by selecting your area of interest or concern:

Products  Conditions  Doctors  Insurance

Health A-Z
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Symptom Checker
Comprehensive Diabetes Care
HEDIS® Measures

- Hemoglobin A1c (HbA1c) testing
- HbA1c poor control (>9.0%)
- HbA1c control (<8.0%)
- HbA1c good control (<7.0%)
- Eye exam (retinal) performed
- LDL-C screening
- LDL-C control (<100 mg/dL)
- Medical attention for nephropathy
- Blood pressure control (<140/90 mm Hg)
- Blood pressure control (<130/80 mm Hg)
## Results

### HEDIS® Comprehensive Diabetes Care Measures

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HbA1c Poor Control (&gt;9.0%) (Lower percentage desired)</td>
<td>21%</td>
<td>22%</td>
<td>Decrease</td>
<td>High Range=25%</td>
<td>28%</td>
<td>Better than National</td>
</tr>
<tr>
<td>HbA1c Control (&lt;8.0%)</td>
<td>70%</td>
<td>67%</td>
<td>Decrease</td>
<td>Medium Range=22%</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>HbA1c Good Control (&lt;7.0%)</td>
<td>44%</td>
<td>47%</td>
<td>Increase</td>
<td>Medium Range=23%</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>HbA1c Testing Performed</td>
<td>93%</td>
<td>92%</td>
<td>Decrease</td>
<td>Low Range=7%</td>
<td>89%</td>
<td>Better than National</td>
</tr>
<tr>
<td>Eye Exam Performed</td>
<td>68%</td>
<td>68%</td>
<td>No Change</td>
<td>High Range=36%</td>
<td>57%</td>
<td>Better than National</td>
</tr>
<tr>
<td>LDL-Cholesterol Screening Performed</td>
<td>86%</td>
<td>87%</td>
<td>Increase</td>
<td>Low Range=9%</td>
<td>85%</td>
<td>Better than National</td>
</tr>
<tr>
<td>LDL-Cholesterol Control &lt;100 mg/dL</td>
<td>51%</td>
<td>52%</td>
<td>Increase</td>
<td>Medium Range=22%</td>
<td>46%</td>
<td>Better than National</td>
</tr>
<tr>
<td>Blood Pressure Control &lt;140/90 mmHg</td>
<td>69%</td>
<td>72%</td>
<td>Increase</td>
<td>Medium Range=16%</td>
<td>66%</td>
<td>Better than National</td>
</tr>
<tr>
<td>Blood Pressure Control &lt;130/80 mmHg</td>
<td>45%</td>
<td>42%</td>
<td>Decrease</td>
<td>Medium Range=18%</td>
<td>33%</td>
<td>Better than National</td>
</tr>
<tr>
<td>Medical Attention for Nephropathy</td>
<td>88%</td>
<td>88%</td>
<td>No Change</td>
<td>Low Range=9%</td>
<td>82%</td>
<td>Better than National</td>
</tr>
</tbody>
</table>

* Categories are: Low <15%, Medium 15-24%, and High ≥25%.
** National mean for 2009 not released until November 2010
Results

Collaborative Average Performance vs. National Average and National 90th Percentile (HEDIS® 2009)
Results: Plan Variation
Diabetes Care Measure Mean and Variation Over Time
(Data from HEDIS® 1999 and 2010)

- Eye Exam: 62%
- LDL-C screening: 68%
- HbA1c testing: 70%
- HbA1c poor control*: 92%
- HbA1c poor control*: 32%
- HbA1c poor control*: 22%
Results: Comprehensive Diabetes Care
HEDIS® 2010 Measures

HbA1c Measures

- HbA1c testing: 93%, 93%, 92%
- HbA1c good control (<7.0%): 48%, 44%, 47%
- HbA1c control (<8.0%): 70%, 67%
- HbA1c poor control**: 21%, 21%, 22%
Results: Comprehensive Diabetes Care
HEDIS® 2010 Measures
Results: Comprehensive Diabetes Care
HEDIS® 2010 Measures

Medical Attention for Nephropathy

- 2006 (n=15): 85%
- 2007 (n=14): 87%
- 2008 (n=14): 88%
- 2009 (n=15): 88%
Individual Plan Report Example

Eye Exam

<table>
<thead>
<tr>
<th>Year</th>
<th>Pretend Plan</th>
<th>Collaborative Average</th>
<th>National Average</th>
<th>National 90th Percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>40%</td>
<td>66%</td>
<td>48%</td>
<td>72%</td>
</tr>
<tr>
<td>2001</td>
<td>38%</td>
<td>63%</td>
<td>52%</td>
<td>74%</td>
</tr>
<tr>
<td>2002</td>
<td>42%</td>
<td>66%</td>
<td>52%</td>
<td></td>
</tr>
<tr>
<td>2003</td>
<td>43%</td>
<td>63%</td>
<td>49%</td>
<td></td>
</tr>
<tr>
<td>2004</td>
<td>48%</td>
<td>64%</td>
<td>51%</td>
<td></td>
</tr>
<tr>
<td>2005</td>
<td>58%</td>
<td>69%</td>
<td>55%</td>
<td></td>
</tr>
<tr>
<td>2006</td>
<td>51%</td>
<td>69%</td>
<td>56%</td>
<td></td>
</tr>
<tr>
<td>2007</td>
<td>50%</td>
<td>67%</td>
<td>55%</td>
<td></td>
</tr>
<tr>
<td>2008</td>
<td>53%</td>
<td>68%</td>
<td>57%</td>
<td></td>
</tr>
</tbody>
</table>
Quality Improvement Initiatives

• Eye Care Initiative that began in 2001, re-implemented in 2006
• Production of a bilingual DVD: Protect Your Vision: The Dilated Eye Exam, (in collaboration with the Wisconsin Lions Foundation)
• Cardiovascular Risk Reduction Initiative that began in 2003; Publication of the Cardiovascular Care Performance report
• Production of a bilingual DVD: The Links to Chronic Kidney Disease: Diabetes, High Blood Pressure, and Family History, (in collaboration with the Wisconsin Lions Foundation and the National Kidney Foundation)
  – Continued support to increase reporting of estimated Glomerular Filtration Rate (eGFR) by Wisconsin laboratories and the statewide Chronic Kidney Disease Task Force
• Living Well with Chronic Conditions self-management program
• Relative Resource Use: The Project collected baseline data for this new HEDIS® utilization measure. The Collaborative is planning how to report and use this information.
Chronic Disease Program Integration

• Wisconsin is one of the four Program Integration Demonstration states in a pilot project funded by the Centers for Disease Control and Prevention (CDC).

• Several chronic disease programs (including Arthritis, Asthma, BRFSS, Cancer, Diabetes, Heart Disease and Stroke Prevention, Nutrition, Physical Activity and Obesity, and Tobacco Prevention and Control) are collaborating to accomplish a coordinated program integration work plan that increases the effectiveness and efficiency of participating programs.

• Findings can be used to design and implement new initiatives to improve care.
Results: Cardiovascular Care
HEDIS® 2010 Measures

- Persistence of beta blocker treatment after a heart attack:
  - 2005 (n=15): 70%
  - 2006 (n=15): 73%
  - 2007 (n=14): 76%
  - 2008 (n=13): 79%
  - 2009 (n=15): 79%

- Blood pressure control <140/90 mmHg:
  - 2005 (n=15): 64%
  - 2006 (n=15): 65%
  - 2007 (n=14): 67%
  - 2008 (n=13): 68%
  - 2009 (n=15): 68%

- LDL-C screening:
  - 2005 (n=15): 89%
  - 2006 (n=15): 90%
  - 2007 (n=14): 92%
  - 2008 (n=13): 90%

- LDL-C control <100mg/dL:
  - 2005 (n=15): 63%
  - 2006 (n=15): 68%
  - 2007 (n=14): 69%
  - 2008 (n=13): 68%
  - 2009 (n=15): 68%
Results: Cancer Screening
HEDIS® 2010 Measures
Results: Weight Assessment
HEDIS® 2010 Measures

- Adult BMI
- Children/Adolescent BMI (3-11 years)
- Children/Adolescent BMI (12-17 years)
- Counseling for Nutrition (3-11 years)
- Counseling for Nutrition (12-17 years)
- Counseling for Physical Activity (3-11 years)
- Counseling for Physical Activity (12-17 years)
- Counseling for Physical Activity (Total)

2009 (n=14)
Results: Antidepressant Medication Management HEDIS® 2010 Measures

- Acute Phase Treatment (12 weeks): 67%
- Continuation Phase Treatment (6 months): 49%

[Graph showing 2009 results with n=15]
Conclusions

• Wisconsin’s performance **exceeds national averages** for all HEDIS® Comprehensive Diabetes Care measures
• Diabetes **quality improvement initiatives** have been undertaken, both by the WCDQIP and by participating organizations
• Project is a **model for quality monitoring and improvement** in other programs, states, and communities

Future Directions:

• **Publication of 2010 Project Report** in November 2010
  • Including new **Chronic Disease Program Integration** Program-specific reports
• **RRU** data collection and reporting implemented for year thirteen to measure the efficiency and value of services rendered by organizations
Questions?

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