The CROWNWeb Clinical Performance Measures

Featuring

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Centers for Medicare and Medicaid Services

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FMQAI – The Florida ESRD Network
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Glenda Payne, RN, MS, CNN is a nephrology nurse with more than 30 years experience in ESRD. She has state and federal survey experience and is part of the Survey & Certification ESRD Support Team responsible for surveyor training and developing resources to assist in the implementation of the ESRD Conditions for Coverage.

She serves as the project officer for the Network 7 contract, as well as for the RCT special project.

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Thomas Dudley
Health Insurance Specialist
Office of Clinical Standards and Quality (OCSQ)
Centers for Medicare and Medicaid Services

Tom Dudley has been with CMS since 2000. His duties include the development and public reporting of ESRD and Nursing Home clinical performance measures, and overseeing the development and implementation of MDS 3.0. He’s worked on such projects as databases for the Prescription Drug Plan Finder and Online Enrollment Center, Dialysis Facility Compare, and the Medicare Eligibility Tool on medicare.gov. He holds a M.S. in Nursing and Business Administration and a B.S. in Nursing from University of Maryland, and has over 20 years experience in the planning, implementation and management of multidisciplinary health care programs.
Randall L. Webb, B.A.  
Managing Director  
University of Michigan Kidney Epidemiology and Cost Center (UM-KECC)

Randall Webb has more than 30 years of IT and database management experience supporting public policy, epidemiology, clinical, and medical outcomes research. He was Director of Information Systems for the USRDS Coordinating Center from 1988 through 1999. He is a graduate of the University of Maryland Baltimore County (BA Economics). UM-KECC holds multiple CMS contracts related to ESRD and produces the Dialysis Facility Reports each year.

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CPMs  
What Are They?  
Who is UM-KECC?

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UM-KECC’s Role with CROWNWeb

• Monthly calculation of the CPMs, Fistula First & data quality reports (2009-present)
• Development of software to calculate CPMs & Fistula First (2008-2009)
• Review of Business Requirements for CPMs & Fistula First (2007-2008)
• Support for development of CPMs (with Arbor Research) (2006-present)

How were the CROWNWeb CPMs Selected?

• Started with measures in the CPM sample studies & Fistula First (1994 - )
• Technical Expert Panels suggested modifications (2006)
• Measures were sent for endorsement by National Quality Forum (2007)
• Subset of measures selected by CMS for initial inclusion in CROWNWeb (2008)
### CROWNWeb Measures

<table>
<thead>
<tr>
<th>Measure Domain</th>
<th>Number of CPMs</th>
<th>Study Period (months)</th>
<th>Submission Requirements (months/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD Adequacy</td>
<td>3</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>PD Adequacy</td>
<td>3</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Vascular Access*</td>
<td>5</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>Anemia Management</td>
<td>5 x 3</td>
<td>3</td>
<td>3-6</td>
</tr>
<tr>
<td>Mineral Metabolism</td>
<td>4 x 3</td>
<td>1</td>
<td>3-6</td>
</tr>
<tr>
<td>Fistula First</td>
<td>14</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>(Admit-Discharge)</td>
<td></td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

* Some are a subset of Fistula First

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### Sample Monthly CROWNWeb Reporting Cycle

- **Reporting month:** January
- **Facilities enter data by:** February 28
- **Extract file sent to UM-KECC by:** March 5
- **UM-KECC calculates measures by:** March 12
- **Users can produce summary reports for January in CROWNWeb by:** March 15
Clinical Performance Measures

Example HD Summary Report

Facility comparison to State, Network and National results for Study Period ending November 2009
Facility: 000009 (CCN: 00000000009)

ESRD CLINICAL PERFORMANCE MEASURES SUMMARY
Facility, State, Network and National Data for Hemodialysis Patients
Study Period: September 2009 – November 2009
Use this tool to compare your Facility Outcomes to State, Network, and National data

<table>
<thead>
<tr>
<th>Measure</th>
<th>Facility 000009</th>
<th>State XX</th>
<th>Network XX</th>
<th>National</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adequacy - Hemodialysis (HD)</td>
<td># %</td>
<td># %</td>
<td># %</td>
<td># %</td>
</tr>
<tr>
<td>Monthly Measurement of Delivered HD Dose</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Percentage of adult (≥ 18 years old) HD patients with documented monthly adequacy measurement (mg/dL) or its components in the calendar month</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
</tr>
<tr>
<td>Mineral Metabolism - HD</td>
<td># %</td>
<td># %</td>
<td># %</td>
<td># %</td>
</tr>
<tr>
<td>CPM1: Measurement of Serum Phosphorus (HD &amp; PD Combined)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Percentage of adult (≥ 15 years old) HD and PD patients with serum phosphorus measured at least once the month</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
</tr>
<tr>
<td>CPM1: Measurement of Serum Phosphorus</td>
<td># %</td>
<td># %</td>
<td># %</td>
<td># %</td>
</tr>
<tr>
<td>Percentage of adult (≥ 15 years old) HD patients with serum phosphorus measured at least once the month</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
</tr>
</tbody>
</table>

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The contents of this report are not considered valid until after the close of the CPE designated reporting period.

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Quantity of CPM Data and Challenges

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Amount of Data Reported in CROWNWeb for December 2009

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD Patients</td>
<td>260,679</td>
</tr>
<tr>
<td>PD Patients</td>
<td>19,908</td>
</tr>
<tr>
<td>Total Dialysis Patients</td>
<td>280,587</td>
</tr>
</tbody>
</table>

Total Dialysis Patients = 74% of All Patients

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase II Batch Facilities</td>
<td>90</td>
</tr>
<tr>
<td>Phase II Non-Batch Facilities</td>
<td>90</td>
</tr>
<tr>
<td>Other Batch Facilities</td>
<td>3,267</td>
</tr>
<tr>
<td>Total Facilities</td>
<td>3,446</td>
</tr>
</tbody>
</table>

Total Facilities = 64% of All Facilities

Percent of CROWNWeb Patients with Clinical Data Reported

- Anemia Mgmt: 87% (HD - Sep 2009) 54% (PD - Oct 2009)
- Mineral Metab: 85% (HD - Sep 2009) 53% (PD - Oct 2009)
- Adequacy: 84% (HD - Sep 2009) 60% (PD - Oct 2009)

Excluding and including LDO with most PD data rejected:
- Anemia Mgmt: 76% (HD - Sep 2009) 60% (PD - Oct 2009)
- Mineral Metab: 74% (HD - Sep 2009) 43% (PD - Oct 2009)
Data Collection Issues Currently Being Resolved

- Batch submission process rejects most PD data from one LDO (affects calculation of most PD CPMs)
- Dialysis sessions per week is missing on about 25% of records (affects calculation of HD Adequacy CPM II and III)
- Vascular access change date cannot be before date of admission to the facility (affects calculation of catheter over 90 days)
Clinical Performance Measures

Preliminary HD CROWNWeb 2009 CPMs are Similar to 2006-07 CPMs

- 2006-2007 CPM (5% sample)
- CROWNWeb CPM - Sep 2009

HD Adequacy
Vascular Access
Anemia Management
Mineral Metabolism

Only selected measures with matching CPM definitions are shown.

Preliminary PD CROWNWeb 2009 CPMs are Similar to 2006-07 CPMs

- 2006-2007 CPM (5% sample)
- CROWNWeb CPM - Oct 2009

PD Adequacy
Anemia Management
Mineral Metabolism

Only selected measures with matching CPM definitions are shown.
Preliminary Prevalent CROWNWeb Fistula First are Similar to FFBI Measures

Vascular Access in Use

Slide 19

The CPM Project Looking Back and CROWNWeb CPMs Looking Ahead

Slide 20
CPMs – The Past

- Vision of Original CPM project
- Original measurements collected
  - Scope
  - Effectiveness

CPMs – Looking Ahead

- CPM Project – 2010 and Beyond
- New Clinical Performance Measures
- Facility Expectations
- Importance of Community Feedback in Development of CPM Project
Questions

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Our Next Session

Vascular Access: What You Need to Know
with Raynel Kinney
The Renal Network, Inc.
(ESRD Networks 9/10)

Date: April 29, 2010
Time: 2pm-3pm ET

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Thanks!

For Further Information...

CPM Detail:

Email: CRAFT@nw7.esrd.net
CROWN Help Desk: 1-888-ESRDHD1
Web Site: http://www.projectcrownweb.org

This material was prepared by FMQAI – The Florida ESRD Network (in partnership with The University of Michigan Kidney Epidemiology and Cost Center), under contract with the Centers for Medicare & Medicaid Services (CMS), an agency of the U.S. Department of Health and Human Services. The contents presented do not necessarily reflect CMS policy.