

Clinical Performance Measures for ESRD Patients

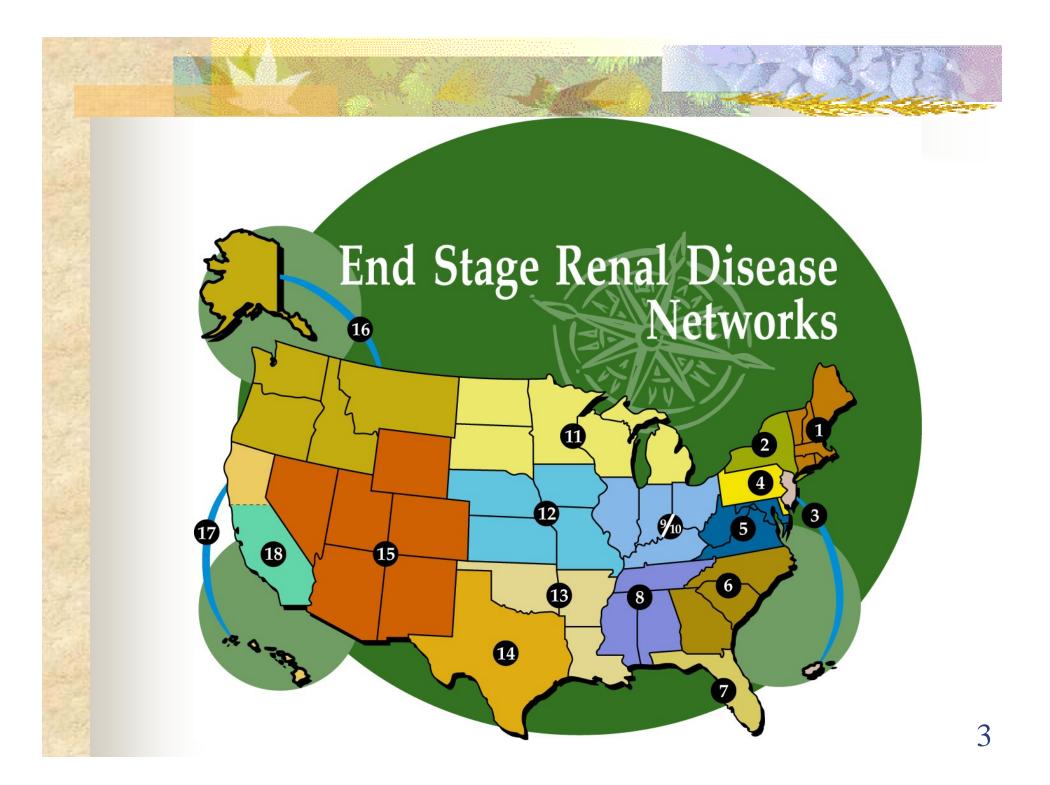


Lana Kacherova, QI Director, ESRD Network 18 26th Annual NANT Symposium February 12, 2009

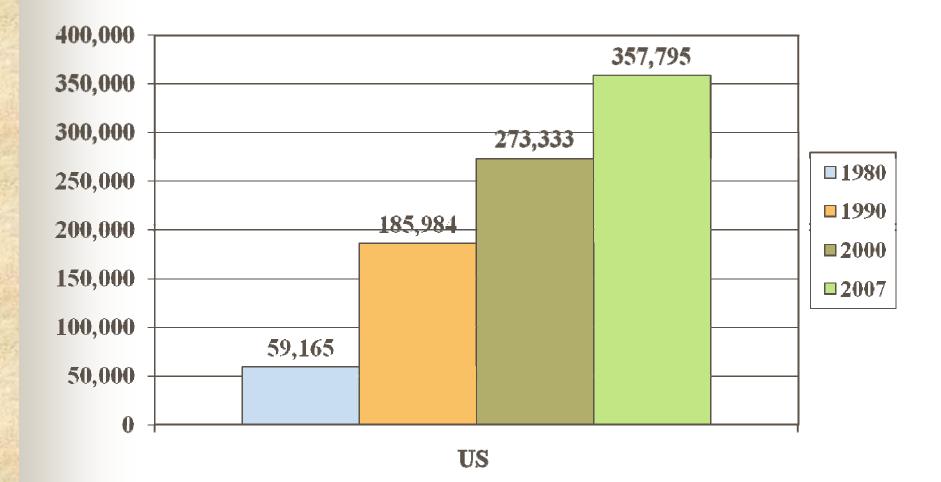


Health Care Quality Improvement Program (HCQIP)

- The Center for Medicare & Medicaid Services (CMS) contracts with 18 ESRD Network Organization throughout the United States
- The ESRD Network perform oversight activities to assure appropriateness of services and protection for ESRD patients.
- This approach has been named the ESRD Health Care Quality Improvement Program (HCQIP)



Number of Prevalent ESRD Patients in the US



ESRD Network National Goals

- Improve the quality of health services & quality of life for ESRD beneficiaries
- Improve data reporting, reliability, & validity between providers, NWs, and CMS
- Evaluate and resolve patient grievances
- Support the marketing, deployment, and maintenance of CMS approved software

CMS, ESRD NW Organization Manual

ESRD Network National Goals

- Establish & improve partnerships & cooperate activities with
 - Providers & Owners
 - NWs, Quality Improvement Organizations (QIOs)
 - State Survey Agencies
 - Professional Groups & Patient Organizations

CMS, ESRD NW Organization Manual

Network <u>Cannot</u> Help With The Following:

- Recommendations on specific doctors or clinics
- Financial assistance
- Transportation service
- Licensing dialysis facilities or staff
- Obtaining medical insurance
- Tracing payments or status of applications
- Networks are not CMS or SSA (State Survey Agencies)

Clinical Performance Goals

- Provides measurement tool to assess facility patient care processes and outcomes, and identify opportunities for improvement.
- The Network goal is to combine efforts with renal facilities to improve performance in the delivery of quality patient care

Goals Established by the ESRD Networks based on:

- Past performance
- CMS thresholds
- NKF/KDOQI Clinical Practice Guidelines
- The expectation is that facilities not meeting expected performance standards develop internal quality monitors to promote continuous improvement

Quality Improvement Activities with Providers

- CMS-approved QIPs (Fistula First)
- Clinical Performance Measures Project (CPM)
- Network-Specific Projects
- Annual Lab Data Collection Project
- Facility Specific QI Projects
- Technical Assistance
- Internal QI Program

What is the cost of Poor Quality?

- No show rates?
- Lost charts?
- Lost labs?
- Train wreck visits?
- Lost revenue improper billing?
- Staff turnover?

ESRD Clinical Performance Measures (CPM) Project:

- National effort led by CMS and 18 ESRD Networks that started in 1994
- Random sample of patients that are representative of each Networks
- For HD patients (October-December 2007)
- For PD patients (October 2007- March 2008)
- Upcoming CPM data collection:
 - for HD patients January-March 2009
 - for PD patients January June 2009

Five Major Domains of Care:

- Adequacy of Dialysis
- Anemia Management
- Nutritional Status
- Bone and Mineral Metabolism
- Vascular Access

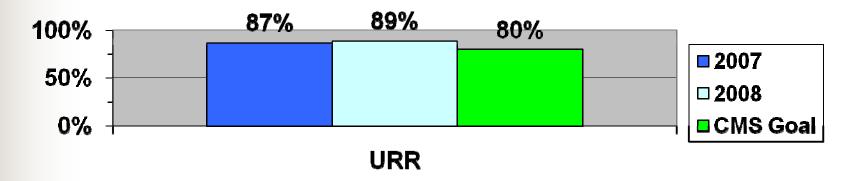
Adequacy of Dialysis

- Numerous outcome studies have demonstrated a correlation between the delivered dose of hemodialysis and patient mortality and morbidity
- Pre and post-dialysis blood urea nitrogen (BUN) levels were drawn and reported to calculate URR results
- Kt/V was calculated using the pre- and post BUN, post dialysis weight, and time on dialysis

Adequacy of Dialysis: adult HD pts (U.S.)

	2007	2008	CMS Goal
Mean URR	73.0	73.2	<u>≥ 65</u>
% of Pts with mean URR <u>></u> 65	87%	89%	80%

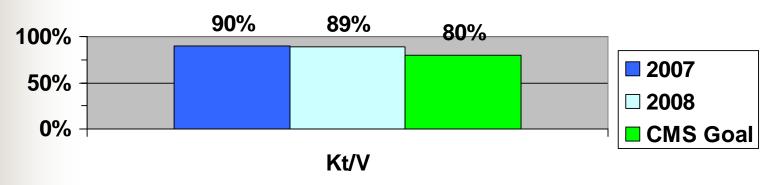
Compliance to the URR Measure



Adequacy of Dialysis Adult HD pts (Kt/V)

	2007	2008	CMS Goal
Mean Kt/V	1.55	1.56	≥ 1.2
% of Pts with mean	90%	89%	80%
$Kt/V \ge 1.2$			

Compliance to the Kt/V Measure



US: 2007 CPM Results Pediatric HD Patients: Adequacy of Dialysis

% of Pts with a mean sp. $Kt/V \ge 1.2$	91%
Mean sp. Kt/V	1.62
Mean dialysis session length	203

% of Pts with a mean sp. Kt/V \ge 1.8	87%
Mean weekly Kt/V for CAPD patients	2.20
Mean weekly Kt/V for cycler patients	2.52

Dialysis Session Time: U.S

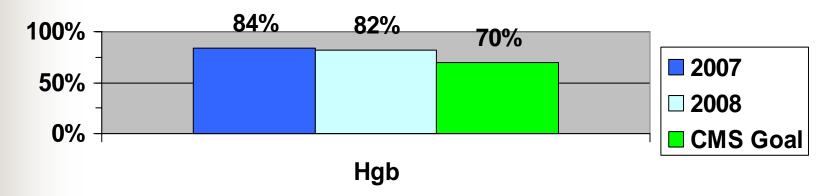
Dialysis Adequacy	2002	2003	2004	2005	2006	2007	2008
% Pts with mean Kt/V > 1.2	89	89	91	91	91	90	91
Median Kt/V	1,49	1,52	1,53	1,55	1,55	1,55	1.56
% Pts with mean URR > 65%	84	86	87	88	88	88	89
Median URR	71.5	72,4	72.6	73	73	73	73.2
Median Blood Flow Rate	400	400	400	400	n/a	n/a	n/a
Medican Treatment Time (min)	212	213	213	213	213	212	213.7

Data source: CPM Study (2002 – 2008)

Anemia Management Adult HD pts (Hgb)

	2007	2008	CMS Goal
Mean Hgb	12.1	11.9	≥ 11.0
% of Pts with mean Hgb > 11.0	84%	82%	70%

Compliance to the Hgb Measure



Anemia Management: (Souse: Phase III CMP effective April 1, 2008)

- Assessment of Iron Stores
- Hemoglobin (Hgb) control for patients receiving ESA (Erythropoietin Stimulating Agents) therapy (target- 10-12 g/dL)
- Hematocrit (Hct) control for patients receiving ESA therapy (30-36%)
- Closely monitoring Hgb & Hct levels below target minimum

Median Hgb (g/dl)	Hgb ≥ 11	Hgb 11-12	Hgb < 10	Hgb 10-12	Hgb > 12
11.90	82	39	5	50	45

2007 CPM Results Pediatric HD Patients: Anemia Management

% of Pts with mean Hgb > 11.0 G/DL	69%
Mean Hgb (g/dl)	11.5
% of Pts with mean TSAT $\geq 20\%$	76%
% of Pts with mean serum Ferritin > 100 ng/ml	82%
% of Pts with mean Serum Ferritin > 800%	19%

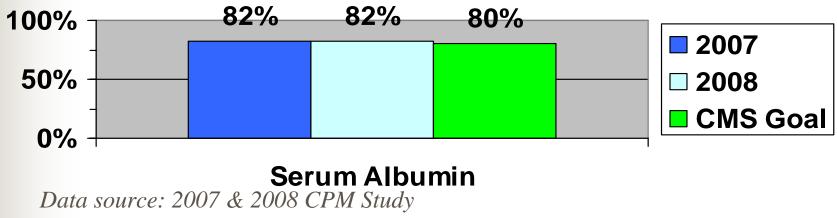
Data source: 2007 CPM Study

Nutritional Status Adult HD patients

(Serum Albumin)

	2007	2008	CMS Goal
Mean Serum Albumin BCG (g/dl)	3.8	3.83	-
Mean Serum Albumin BCG (g/dl)	3.5	3.47	-
% od Pts with mean Serum Albumin \geq 3.5/3.2 (BCG/BCP)	81%	82%	80%

Compliance to the Serum Albumin Measure

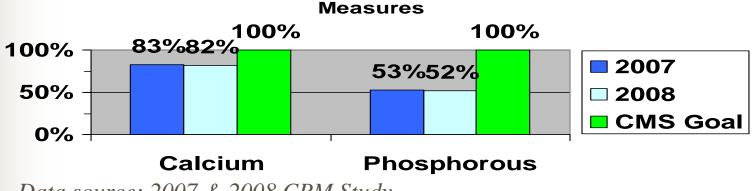


Bone and Mineral Metabolism: Adult HD pts

	2007	2008	CMS Goal
Mean Calcium	9.3	9.26	-
% of Pts with adjusted Calcium between 8.4 and 10.2	83%	82%	100%

	2007	2008	CMS Goal
Mean Phosphorous	5.2	5.2	-
% of Pts with mean Phosphorous between 3.5 and 5.5	53%	52%	100%

Compliance to the Bone & Mineral Metabolism



Vascular Access Clinical Performance Measures: Facility Level

- Minimize use of catheters as Chronic Dialysis Access
- Maximize placement of Arterial Venous Fistula (AVF)

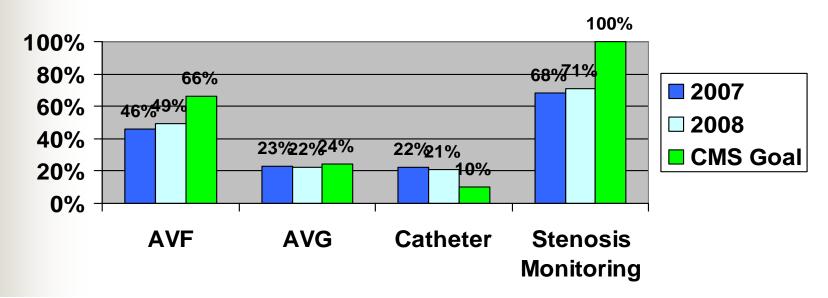
Vascular Access Clinical Performance Measures: Clinician Level

- Functional AVF or referral to vascular surgeon for placement
- Catheter patients referral to vascular access for evaluation for permanent access at least once during 12 months reporting period
- Percentage of patient with advanced chronic disease (CKD stage 4 or 5) or ESRD receiving AVF

2007 CPM Results: Vascular Access

	2007	2008	CMS Goal
% Prevalent Pts with AVF	45%	49%	66%
% Prevalent Pts with AVG	23%	22%	24%
% Prevalent Pts with Catheter	22%	21%	< 10%
Stenosis Monitoring of AVG	68%	71%	100%

Compliance to Vascular Access Measures



What is the most visible vascular access QI project in the United States??

 Fistula First (Fistula First Breakthrough Initiative)



"Fistula First" GOAL

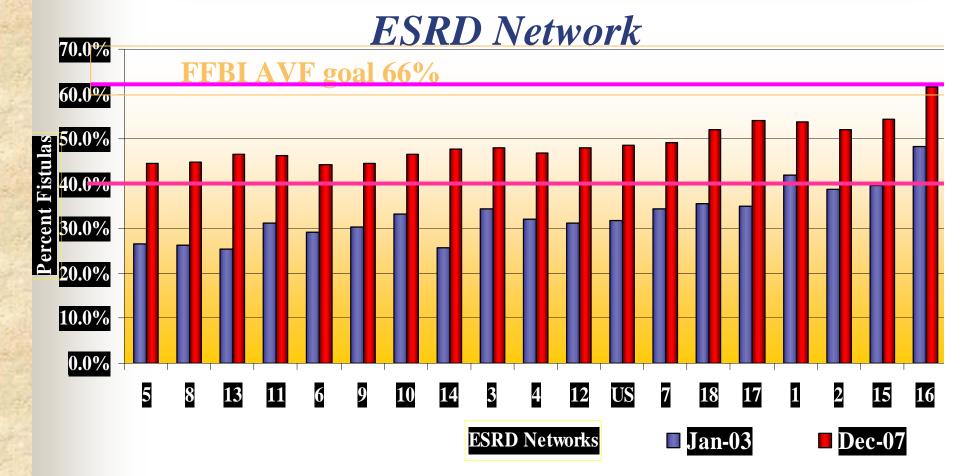
- Goal is to maximize autogenous AVF construction & success rate.....
- To achieve in the shorter term (2006) the initial K/DOQI minimum benchmark of AVF use in 40% of prevalent patients....
- And in the long-term (2009), a 66% AVF rate in prevalent patients
- Additional Goal: Reduce Catheter Use!

Fistula First Change Concepts

- 1. Routine CQI Review of vascular access
- 2. Timely referral to nephrologist
- 3. Early referral to surgeon for "AVF Only"
- 4. Surgeon Selection
- 5. Full range of appropriate surgical approaches

- 6. Secondary AVFs in AFG patients
- AVF
 evaluation/placement
 in catheter pts
- 8. Cannulation training
- 9. Monitoring and maintenance
- 10. Continuing Education
- 11. Outcomes feedback

Improvement in Prevalent AVF Rates by



Data Source: FFBI Dashboard

Important Elements of Vascular Access Care: What can you do?

- Physical assessment of vascular access
- Vascular Access Monitoring & Surveillance
 Program
- Stenosis monitoring for both AVG and AVF
- Proactive referral for intervention based on the monitoring results
- Improve your cannulation skills (Cannulation Training DVD)

New ESRD CPM Measures:

- Influenza vaccination
- Patient Education, Perception of Care, and Quality of Life
- Patient Survival

Dialysis Facility Compare Website

Located at www.Medicare.gov



List of all Facilities in Country Dialysis facility characteristics Quality measures

Helpful contacts and links

🖉 Medicare.gov - The Official U.S. Government Site for People with Medicare - Windows Internet Explorer					
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Prescription Drug Plan	Medicare Prescription Drug Plans - 2009 Pl Data				
NEW! Medicare & You 2009	Medicare Health Plans - 2009 Plan Data	 Add/Update Drug Pharmacy Inform 			
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Condition 494.110: Quality Assessment and Performance Improvement Project (QAPI)

- Interdisciplinary team (IDT)
- Under leadership of Medical Director and Quality Improvement committee
- Outcome- focused & data driven
- Process continuous & on-going
- Use community accepted standards as targets
- Requires RN and interdisciplinary team participation
- CHTs are team members too get involved!

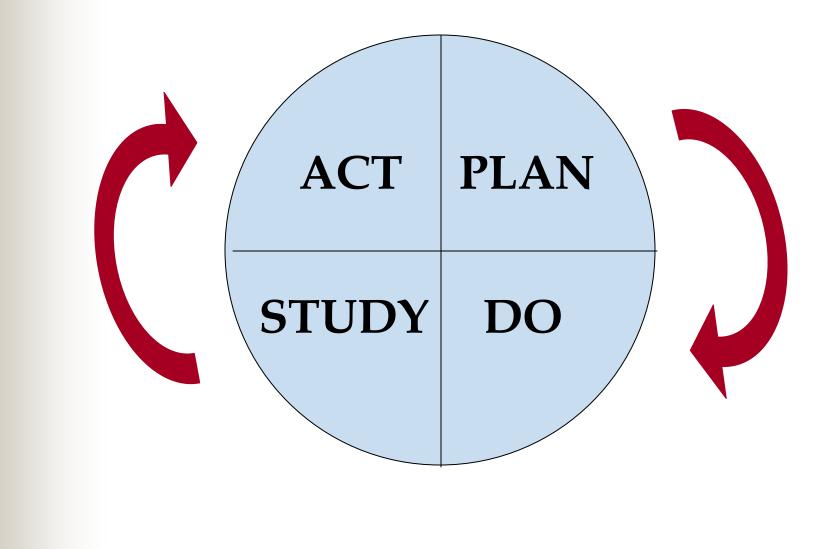
Interdisciplinary Team:

Show Me The Progress:





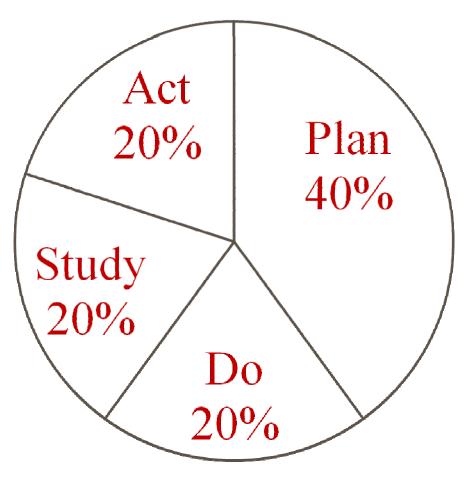
Plan-Do-Study-Act: Close the loop!



Plan-Do-Study-Act

- Plan Identify Opportunity and plan for change
- <u>*Do*</u> Implement the Change on a small scale
- Study Use data to analyze for the change and determine whether it made a difference
- Act If the change was successful, implement the plan and continuously monitor results. If the change did not work start the process again.

PDSA Time Distribution



Developing Your Goal

- Write a clear goal statement--make the target for improvement unambiguous
- Include numeric goals
- Set "stretch" goals
- Focus on issues that are important to your organization
 choose appropriate goals
- *Examples: "* ≥ 85% of patients to have Kt/V of 1.2 or more by June 30, 2009"

"100% of new patients with catheters to be evaluated for AVF placement within 30 days after initiation of dialysis"

Monitoring Performance Improvement

- V638: The facility must:
- Continuously monitor its performance
- Take actions that result in performance improvement
- Track to assure improvements are sustained over time

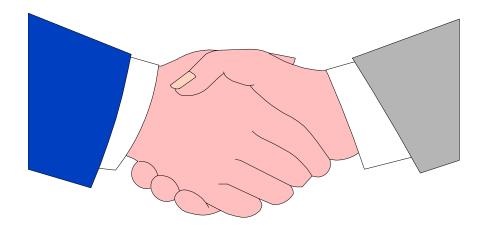
Performance Measures: include but not limit to:

(V629) Adequacy	Kt/V, URR
(V630) Nutrition	Albumin, body weight
(V631) Bone disease	PTH, Ca+, Phos
(V632) Anemia	Hgb, Ferritin
(V633)Vascular access	
(V634) Medical errors	↓Frequency of specific errors
V635) Reuse	↓Adverse outcomes
(V636) Pt satisfaction	↑Survey scores
(V637) Infection control	\checkmark Infections, \uparrow vaccination status

In Summary:

- ESRD Clinical Performance Measures are to support and monitor quality of care given to dialysis patients
- New ESRD CFC require participation by all team members
- Opportunities to engage: vascular access manager, patient education, infection control, and many more!
- Any question/concerns, please call your Network for help or visit the website

The Networks are Here to Help You...



www.esrdnetworks.org

🖉 Welcome to the ESRD Network Forum Website — Forum of ESRD Networks - Windows Internet Explorer				
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Southern California Renal Disease Council

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