

Prevention and Reduction of Healthcare Associated Infections in End-Stage Renal Disease Facilities

Office of Clinical Standards and Quality
Quality Improvement Group
Center for Medicare & Medicaid Services

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Office of the Assistant Secretary for Health
Office of Healthcare Quality

www.hhs.gov/ash/initiatives/hai/
www.hhs.gov/ash/ohq/



Background ESRD Workgroup

- ◉ Representatives from CDC, CMS, HRSA, NIH and AHRQ
- ◉ Role is to give their expertise and recommendations on HAIs and ESRDs in the National Action Plan

Workgroup Members

- ◉ CMS: Marjory Cannon, Thomas Dudley, Marilyn Hanchett, Judith Kari, Shari Ling, Lauren Oviatt, Steven Preston, Daniel Schwartz
- ◉ CDC: Matt Arduino, Priti Patel, Daniel Pollock, Nicola Thompson
- ◉ AHRQ: Kendall Hall
- ◉ NIH: Lawrence Argodoa, Paul Eggers
- ◉ OS/OASH/OHQ: Amber Taylor

Objectives

- ◉ To provide a guide that identifies and prioritizes efforts for the prevention and reduction of healthcare-associated infections (HAIs) in end-stage renal disease (ESRD) facilities
- ◉ Seeks to define key areas of focus for infection control processes, performance measurement and data management that translates into actionable plan to be integrated into federal, state and local activities to reduce and ultimately prevent HAIs in this setting

Headings

- Background
- HAIs in ESRD Facilities
- Priority Infection Control Recommendations in ESRD Facilities
- Metrics and Evaluation
- Incentives and Challenges
- Information Systems and Technology
- Future Directions
- Summary of Recommendations
- References

Prevention Priorities

- Prevention of Intravascular Infections
- Prevention of Bloodborne Pathogen Transmission
- Prevention of Influenza and Pneumococcal Disease
- Prevention Priority Implementation Bundles
- Education and Training



Five-Year National Metrics and Evaluation Targets

- ◉ All BSIs stratified by access type
- ◉ Access-related BSI stratified by access type
- ◉ Seasonal influenza vaccination for ESRD patients
- ◉ Facilities reporting to NHSN
- ◉ Any central venous catheter (CVC) use in patients on hemodialysis
- ◉ Screening for Hepatitis C antibody
- ◉ Hepatitis B vaccine coverage in ESRD patients

Challenges

- ◉ Federal Level
- ◉ State level
- ◉ Facility provider level
- ◉ Patient level



Information Systems and Technology

Resources

- CrownWEB: CMS web-based system which will ultimately replace SIMS, REMIS and VISION
- NHSN: National Healthcare Safety Network

System Integration

- A single DHHS system interface for reporting data or single set of specifications for electronically submitting HAI data would streamline reporting and enable of merger of resources and user support
- Supported by Administration, GAO, Patient Protection and Affordable Care Act (ACA)
- Main and consistent request of external stakeholders representing HD facilities

ESRD Projects Related to Action Plan Goals

Project	Description	Lead Agency
Dialysis BSI Prevention Collaborative	Group of motivated ESRD facilities working together utilizing a uniform measurement system, and implementing evidence-based best practices to prevent BSIs http://www.cdc.gov/dialysis/collaborative/	CDC and external ESRD facilities
Viral Hepatitis Surveillance	State Health Departments are performing routine surveillance for viral hepatitis; risk factors such as ESRD are assessed	CDC and State Health Departments
Dialysis Infection Control Education Project	CDC contractor has completed ESRD stakeholder interviews in order to assess education needs and resource gaps in dialysis. Presentation of results due mid-September	CDC

ESRD Projects Related to Action Plan Goals

Project	Description	Lead Agency
Surveillance for BSI in Dialysis (SuBSID)	Part of the Emerging Infections Program, this is a collaboration between large dialysis organization and the CDC to evaluate electronic infection submission to the NHSN and to examine the validity of that self-reported BSI data	CDC
ESRD Quality Incentive Program	The proposed rule that links quality performance in ESRD facilities to Medicare payment calls for facilities to be signed up and reporting 3 consecutive months of infection data into NHSN during 2012 and to show improvement in access-related infection rates. The final rule is due for publication by November 1, 2011 http://www.regulations.gov/#!documentDetail;D=CMS-2011-0129-0002	CMS



ESRD Projects Related to Action Plan Goals

Project	Description	Lead Agency
ESRD Redesign Scope of Work	A new 5-year contract cycle is in the development stage between CMS and the ESRD networks and is due for release July 1, 2012. The contract is expected to align with the priorities found in the HHS Action Plan and the National Quality Strategy	CMS

ESRD Projects Related to Action Plan Goals

Project	Description	Lead Agency
National Opportunity to Improve Infection Control in ESRD (NOTICE) initiative	This project aims to improve infection control practices in ESRD facilities to reduce preventable healthcare-associated infections. Goal is to improve adherence to infection control practices in end-stage renal disease	AHRQ
	(ESRD) facilities to reduce preventable vascular access infections by developing an infection control worksheet and checklist that allows facilities to assess their performance and state surveyors to identify adherence to required and recommended infection control practices	

ESRD Projects Related to Action Plan Goals

Project	Description	Lead Agency
Data Integration	To work to populate NHSN HAI and ESRD data into upcoming mandatory Dialysis data reporting system, CROWNWeb	CDC, CMS
United States Renal Data System	Continued rich data source used to report infections and hospitalizations in patients with kidney disease	NIH
<u><i>A New England Collaborative: Tackling Healthcare-Associated Infections (HAIs) in Non-Acute Settings</i></u>	Using Pilot Project NHSN Data to Direct Infection Prevention/Control Interventions in Dialysis Settings.	Office of the Assistant Secretary of Health/Office of Healthcare Quality