

SHEA RESEARCH NETWORK

*SHEA 2011 Annual Meeting
Dallas, TX*

researchnetwork@epi.umaryland.edu

What is the SHEA Research Network?

- A consortium of hospitals collaborating on multi-center research projects of interest to the SHEA membership
- Members have the opportunity to contribute to and be acknowledged for their contributions in resulting publications
- To date, over **200 institutions** are participating in the Network, representing **35 states** and **17 countries** (academic/non-academic, large/small, rural/urban, adult/pediatric, US/international)
- All hospitals with a dedicated site PI will be able to join the Network and participate in future projects
- The Network will be used to address important gaps in the healthcare epidemiology science base

SHEA Research Network Membership



researchnetwork@epi.umaryland.edu

SHEA Research Network Today

A diverse network of 201 hospitals including:

- 🏥 **128** Teaching hospitals
- 🏥 **113** Tertiary Care hospitals
- 🏥 **106** Public hospitals
- 🏥 **26** Dedicated Children's hospitals
- 🏥 **18** Government Defined Critical Access
- 🏥 **7** Veterans' Affairs hospitals
- 🏥 **5** Long Term Acute Care Hospitals
- 🏥 **81** Perform Hematologic Transplants
- 🏥 **72** Perform Solid Organ Transplants



researchnetwork@epi.umaryland.edu

SHEA RN Hospital Demographics

100% have an infection control program with an average of 2 hospital epidemiologists and 4 infection preventionists

Average number of beds 475

Average number of adult beds: 430

Average number of pediatric beds: 101

Average number of ICUs: 4

88% have an adult ICU

51 adult ICU beds on average

52% have a pediatric ICU

16 pediatric ICU beds on average






69% have a neonatal ICU

30 NICU beds on average

Shea Research Network PIs

176 unique PIs

- ✓ Hospital Epidemiologists
- ✓ Infection Preventionists
- ✓ Hospital Administrators
- ✓ Researchers
- ✓ Infectious disease physicians
- ✓ Microbiologists
- ✓ Infection control directors
- ✓ Pharmacists

-  **165** have access to electronic microbiology results
-  **165** have access to electronic lists of patient demographic & admission/discharge information
-  **165** have access to IT support
-  **151** have previously submitted an IRB application
-  **158** have a local IRB



RN Study: Effects of CMS CAUTI non-reimbursement policy

- 2008 CMS stopped reimbursing hospitals for some conditions including infections “reasonably preventable”
- Catheter-associated UTI
- Hospitals will be reimbursed if ‘present at admission’

Aim

- quasi-experimental study design
- determine whether CMS policy changes have led healthcare professionals in hospitals in the United States to order more urine cultures at time of admission (thereby leading to greater treatment of asymptomatic bacteruria)
- Proportion of admissions with urine cultures < 48 hours of admission before and after rule

RN Study: Participating Institutions

- 42 hospitals obtained IRB approval
- 21 hospitals have submitted hospital data
- 1,297,289 hospital admissions analyzed
- 6 hospitals submitted antimicrobial use data

Marci Drees, MD MS FACP, Christiana & Wilmington Hospitals (DE)
Dianna Appelgate, MS MPH, Sacred Heart Medical Center (OR)
David Fisk, MD, Santa Barbara Cottage Hospital (CA)
Mohamed Fakh (PI), Janice Rey (co-PI), St. John Hospital & Medical Center (MI)
Michael Sweet, PharmD BCPS, West Virginia University Hospitals
Sarah Haessler, MD, Baystate Medical Center (RI)
David A. Pegues, MD, Ronald Reagan UCLA Medical Center
Carol Sulis, MD, Boston Medical Center
Marc-Oliver Wright, (ASCP), MS, CIC, Evanston, Glenbrook & Highland Park Hospitals (IL)
Alexandra Yamshchikov, MD, Rochester General Hospital (NY)
Dan Morgan, MD & Anthony Harris, MD MPH, University of Maryland Medical Center
& VA Maryland Health Care System
Jan Patterson, MD & Jason Bowling, MD, University of Texas Health Science Center
Deverick Anderson, MD MPH, Duke University Medical Center (NC)
Trish Perl, MD & Aaron Milstone, MD, Johns Hopkins (MD)
Sarah Boyd, MD, Nick Bennett, PharmD, Kristin Repp, PharmD, St. Luke's Northland
Hospital (MO)
Nasia Safdar, MD PhD & Christopher Harper, University of Wisconsin Hospital
Len Mermel, DO ScM AM (Hon) FSHEA FIDSA FACP, Julie Jefferson & Steve Parenteau,
Rhode Island Hospital
Vicki Sherwood, RN BSN CIC, St. Joseph Medical Center (MO)
Jaime Belmares, MD MPH, Loyola University Chicago Medical Center
Christopher Crnich, MD MS, Middleton VA Hospital (WI)
Sapna Mehta, MD, NYU Langone Medical Center
Glen Jett, BSN RN BC NE-BC, Scott & White Memorial Hospital (TX)
Sharon B. Wright, MD MPH & David Yassa, Beth Israel Deaconess Medical Center (MA)
Tara N. Palmore, MD, NIH Clinical Center (MD)
Brandon Bookstaver, PharmD BCPS (AQ-ID) AAHIVE & Janet B. Craig, DHA MBA MSN,