

THE ICAR EXPERIENCE ACROSS THE TARHEEL STATE



APIC Fall Conference September 26, 2017

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NO DISCLOSURES



...These SPICE Girls
Not those SPICE Girls...





OBJECTIVES

- Describe the Infection Control Assessment and Response (ICAR) implementation in North Carolina.
- Identify Infection Control gaps in acute care, longterm care, outpatient and dialysis settings.
- Discuss mitigation efforts for identified infection control gaps.

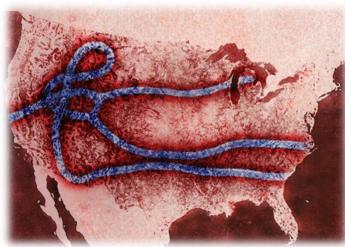


BACKGROUND (ICAR)

LESSONS LEARNED...EBOLA IN AMERICA













BACKGROUND (ICAR)

LESSONS LEARNED...EBOLA IN AMERICA

"Post and even pre-Ebola we recognized there were huge gaps in world preparedness and that we're all vulnerable because of them....

"A blind spot anywhere is a vulnerability everywhere. It's so unpredictable. No one could have predicted that H1N1 could have come from Mexico. That MERS would arise in the Middle East. So the only insurance policy is to strengthen everywhere."



Dr. Tom Frieden

Tom Frieden, ND, MPH, former CDC director and Founder of Resolve, a global health initiative that will focus on heart health and epidemic preparedness.

New York Times: September 12, 2017



BACKGROUND (ICAR)

HOW READY IS AMERICA FOR THE NEXT.....

- CDC funding to Department of Health (DPH) in all 50 states
- NC DPH contracted with SPICE Nurse Consultants to perform assessments
- ICAR assessments: FREE, non-regulatory and consultative

3 year project Goal

(End Date 3/2018)

- 🕨 Long-term care-80 🅢
 - Acute care-30
 - Outpatient-100
- Dialysis centers-40







ICAR-SURVEY ASSESSMENT TOOLS

- Separate tool for each facility type
 - Facility Demographics
 - IC Program/Infrastructure
 - Hand Hygiene
 - PPE
 - Injection Safety
 - HAI Prevention
 - Environmental Cleaning
 - Device Reprocessing
 - Direct observations of facility practices (as applicable)
 - IC Guidelines/Resources

Focus on 5 key elements:
Policies, Training,
Competencies, Audits,
Feedback



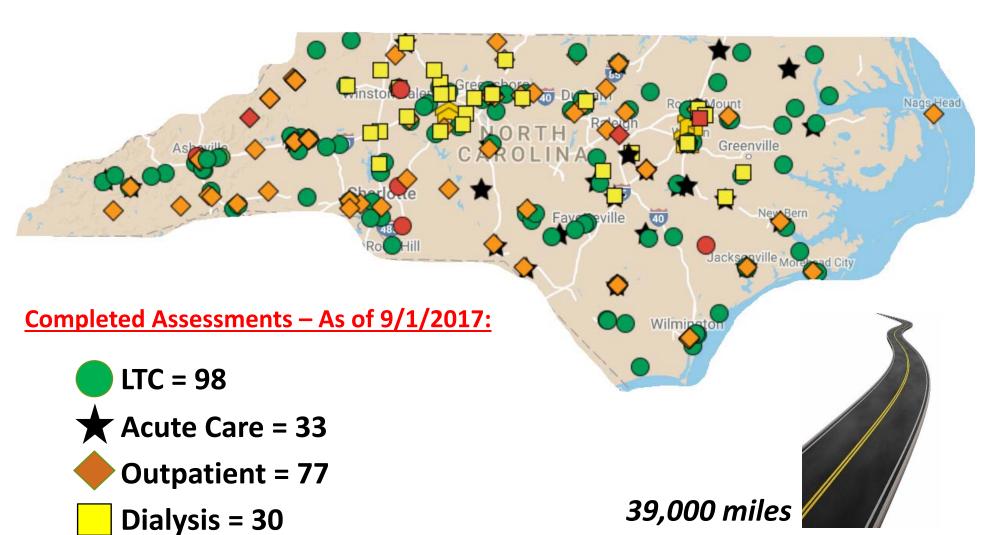
LIMITATIONS

- ICAR tool training
- Recruiting process
 - "Regulatory" fear
 - Volunteer program
 - Access
- Tool design with multiple parameters in 1 question
 - Observational conclusions were developed
- 3 different consultants; skewed interpretation
- Individual state approaches
 - Infection Preventionists vs. State HD employees





GEOGRAPHIC DISTRIBUTION





traveled

SUCCESS

- Visits requested
- Observed best practices



- Support from local networks
- Receptive to feedback
- Engaged in program improvement



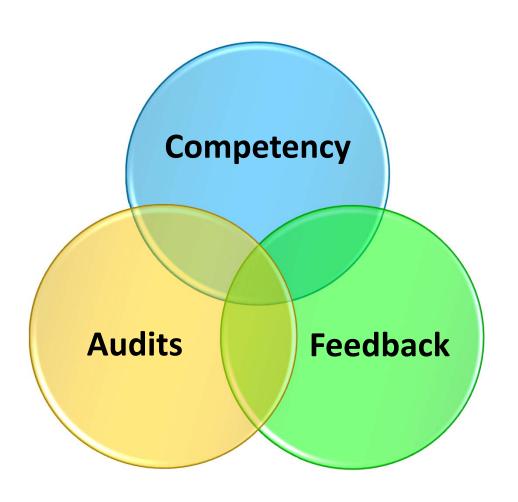
COMMON GAPS ACROSS THE CONTINUUM



WHY is this IMPORTANT to YOU!!!



COMMON PROGRAM GAPS





COMMON GAPS PROGRAM

- FTE allocated to Infection Control/Prevention Increasing demands
- IP Oversight & ICC/QAPI follow up Education, processes, audits
- TB policy/Annual risk assessment TST or not to TST annually...
- Hand Hygiene





COMMON GAPS SAFE INJECTION PRACTICES

- Drug diversion/IP role?
- Single-Dose Vial (SDV)
 Used as Multi-dose vials
- Multi-Dose Vial (MDV)

 Not dated when opened

 Not discarded within 28 days unless the manufacturer specifies a different date
- Shared MDV

 Stored in the immediate patient treatment area e.g., operating room, patient room/cubicle, etc.







COMMON GAPS SAFE INJECTION PRACTICES

Injections are
NOT prepared using aseptic technique in a clean area



- Med Prep areas in middle of lab with specimens and/or re-processing area
- Visibly soiled counters/pads without routine cleaning procedure
- On desks in patient interview rooms



COMMON GAPS GLUCOMETERS

Storage and Cleaning

- Nylon Case (not cleanable)
- Glucometers used on multiple patients without following IFU for cleaning

CDC states if no IFU, then should not be used on multiple patients

Storage in dirty areas and/or splash zones







Single use items being re-used

- Tourniquets
- Wound packing strips
- Disposable BP cuffs
- Suture removers









- Clean vs. Dirty
 - Co-mingling of supplies
 - Clean supplies close to patients/biohazard bins, sink splash zones
 - Equipment; clean/dirty
- Expired patient care items
 - ABHR, soap, disinfectants, blood collection tubes, needles





Linen Management

Storage

- Bottom shelf not solid
- Uncovered
- Mixed with other supplies
- Open under exam table

Transport

- Uncovered carts
- In hands against uniform





Environmental Cleaning

Lack of delegation of duties



- Contract workers (duties not clearly defined)
- Disinfectant contact times not known
- Mystery chemicals (un-labeled bottles, over the counter products, inappropriate dilutions, topping off, no dates when poured)



ACUTE CARE



TYPE OF HOSPITALS VISITED

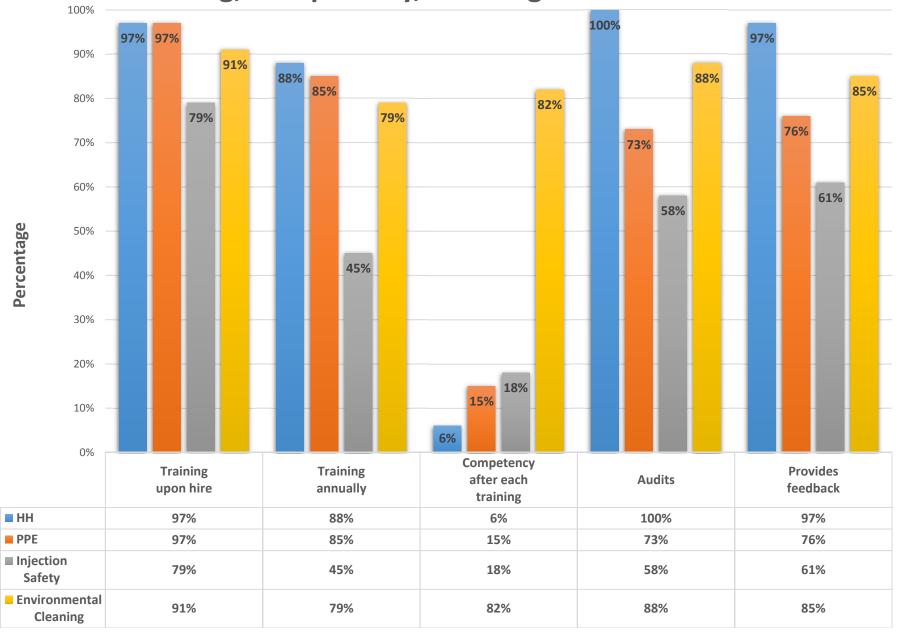
GOAL = 30

N = 33

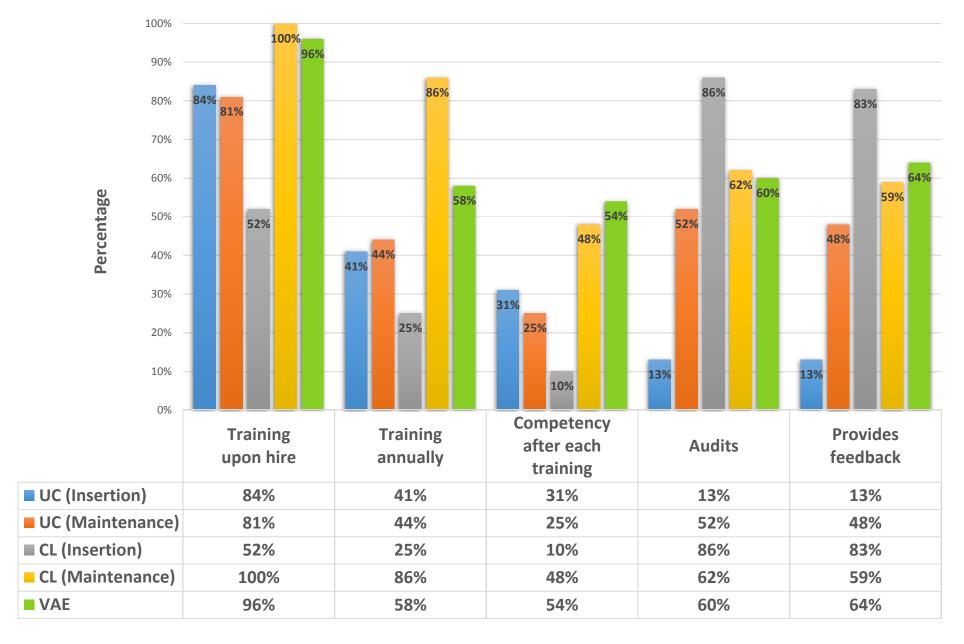
Hospital Types	# Assessed
Acute care	24
LTACH	1
Critical Access	4
Behavioral	3
Rehab	1

	Licensed Beds	IP FTE
Range	8 – 435	0.05 - 5
Mean	165	0.95
Median	110	0.86

Acute Care Compliance - Non Device Related Training, Competency, Auditing and Feedback

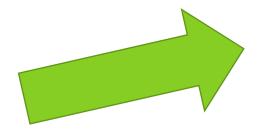


Acute Care Compliance - Device Related Training, Competency, Auditing and Feedback



ACUTE CARE OBSERVATIONAL GAPS

What is wrong with this picture?







ACUTE CARE OBSERVATIONAL GAPS

- SPD decontamination with door open
- HLD
 - Endoscope storage in soiled rooms with open cabinet, vaginal US probe rinsed in HH sink
- Rusty casters in the OR





POINTS TO PONDER...

- How to implement a thorough competency training program?
- Audits
 - Who?
 - What?
 - When?









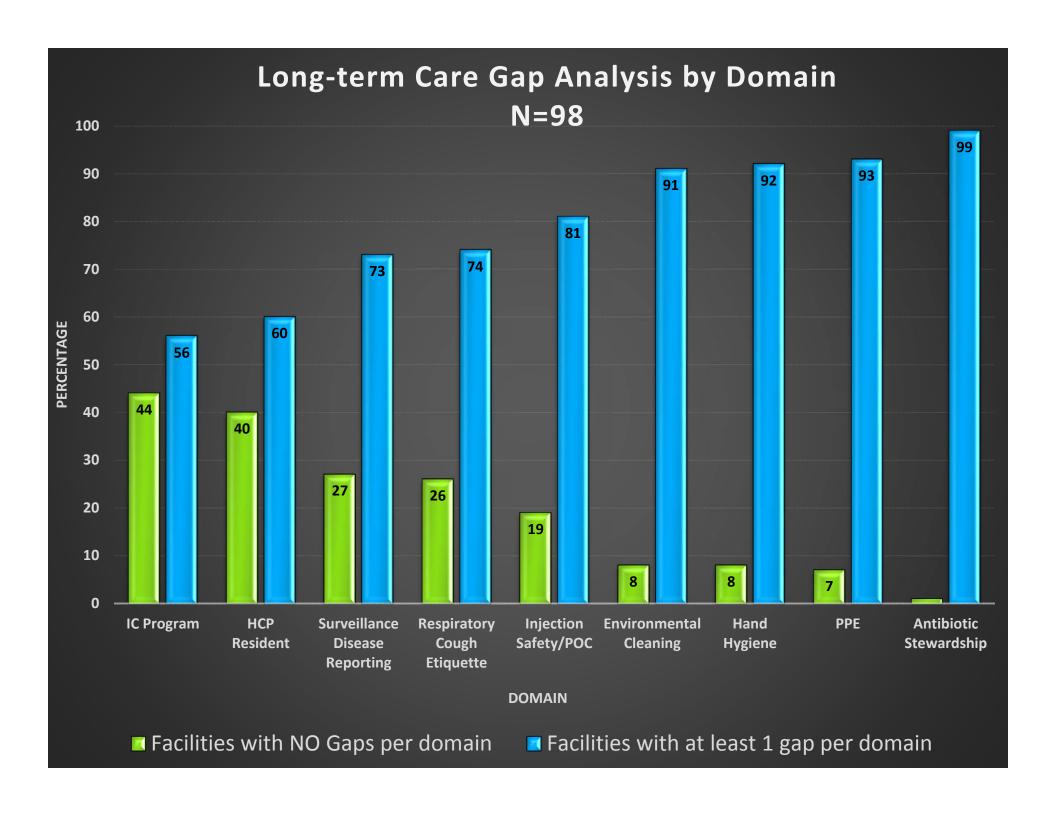
TYPE OF FACILITIES VISITED

GOAL=80 N=98

Type of a facility	Bed Size	# Assessed
Skilled	< 100	47
Skilled	> 100	49
Assisted Living	80	1
Adult Developmental	283	1

Hospital Affiliated	Hours per week dedicated to IC
8	9.9 (min 1/max 35)





ANTIBIOTIC STEWARDSHIP

CMS Requirement - November 28, 2017



7 Core Elements Implementation

- Limited pharmacy/MD support
- Data analysis skills
- Family pressure
- Antibiogram =
- Staff/MD/Patient/Family Education





HAND HYGIENE

Policy

 Lack of preferential use of ABHR over soap and water

Barriers

- Miscommunication
- Communal living
- Cognitive decline
- Homelike atmosphere
- Limited access to sinks

Observations

- ABHR not always readily accessible
 - Med carts
 - Soiled rooms
 - Dining area
 - Clean supply
 - Common areas
 - Activity room



OBSERVATIONAL GAPS





- Data is collected; however no standardization for comparison. Based off...
 - MD diagnosis, MDS (coding data), antibiotics prescribed, modified McGeer, updated McGeer, EMR IC program



Goal = standardization McGeer/NSHN

Designated person has multiple roles/turnover

DON, ADON, SDC, wound nurse, supervisor, hiring, staffing...





POINTS TO PONDER...

- Patient hand hygiene (dining, activities, etc.)
- Gait belts as a fashion accessory
- Privacy curtain cleaning
- Linen management
- Lift slings dedicated or shared?
- FEES scopes/HLD?
- Construction/renovation





OUTPATIENT



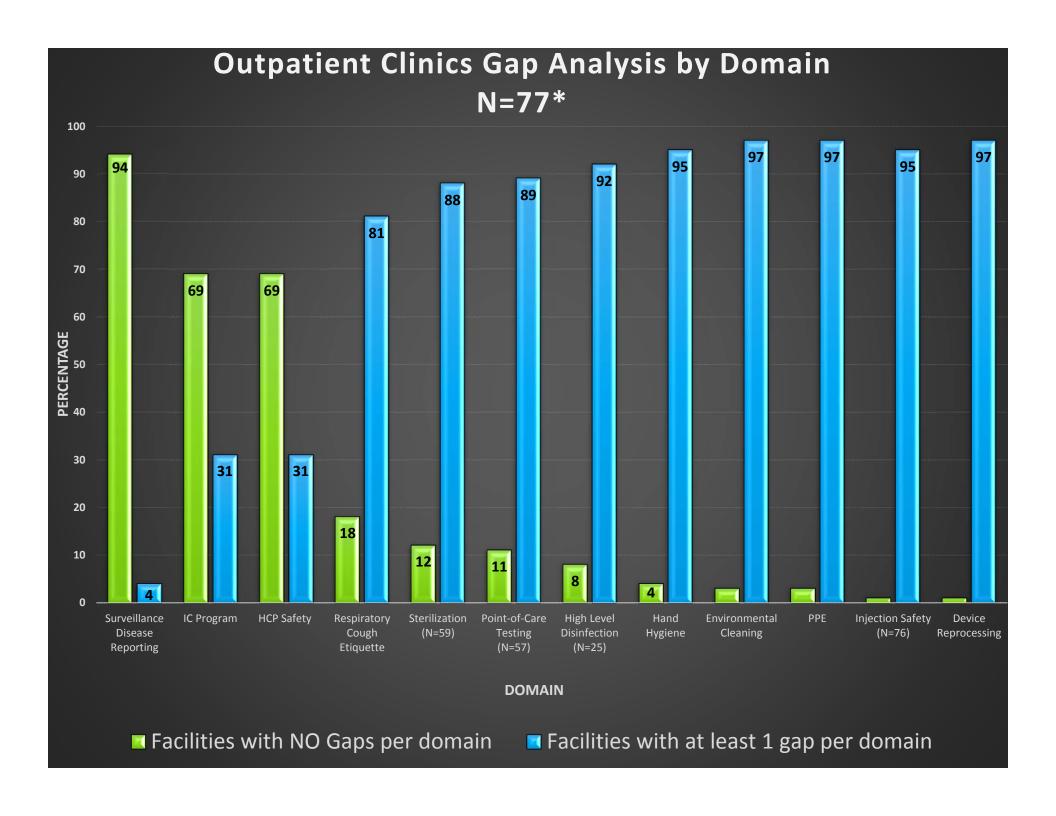
TYPE OF FACILITIES VISITED

GOAL=100 N=77

Independent	Hospital Affiliated
28*	49

* Local health departments = 16





OUTPATIENT RESPIRATORY HYGIENE/COUGH ETIQUETTE

- Facilities lack policies and procedures regarding respiratory hygiene.
 - Offering facemasks to symptomatic persons
 - Providing space in waiting areas and encouraging separation
- Lack of signs at entrances with instructions for patients with symptoms of respiratory infection
- Lack of tissues and no-touch receptacles for disposal of tissues







DEVICE REPROCESSING STERILIZATION HIGH LEVEL DISINFECTION (HLD)





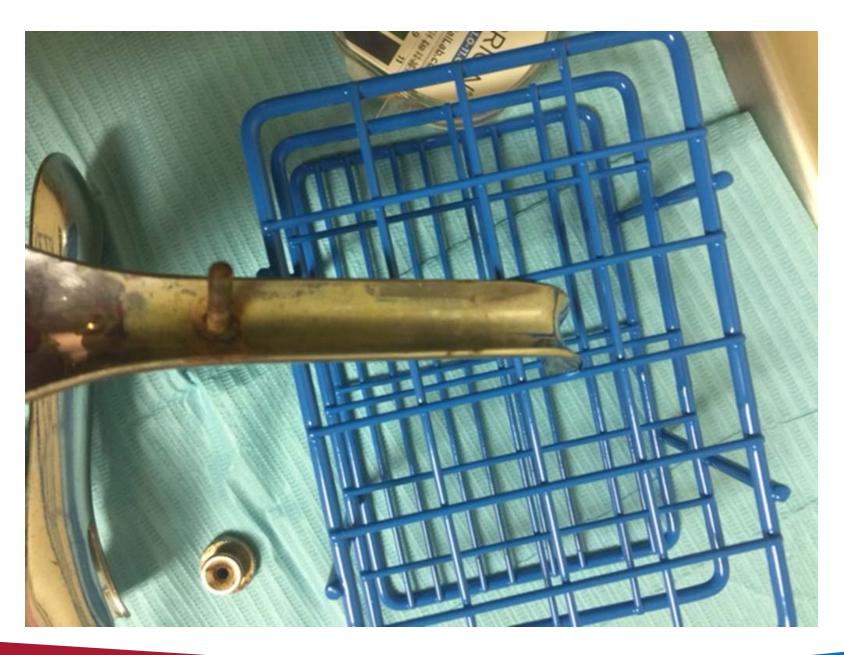
OUTPATIENT STERILIZATION GAPS



- Competency training (Resource?)
- Pre-cleaning
- Length of time before processing (dry/wet)
- Transport
- HCW PPE

- Decontamination
- Packaging/pouching
- BI/Chemical indicators
- Maintenance
- Logs
- Storage







OUTPATIENT GAPS HIGH LEVEL DISINFECTION (HLD)



- HLD chemical use
 - Temperature
 - Rinsing
- Drying after HLD
- Safe storage
- Enzymatic/detergent used according to manufacturer
- Brush use



POINTS TO PONDER...

- How do you ensure training/competency for sterilization/HLD?
 - Who are your "go-to" resources?
 - One staff member is not enough...who is back-up?
 - Are you prepared to notify patients of breaches in infection control practices?
- Would you personally have an invasive procedure in your own clinic?





What does a vaginal speculum and a Solo cup have in common?







HEMODIALYSIS

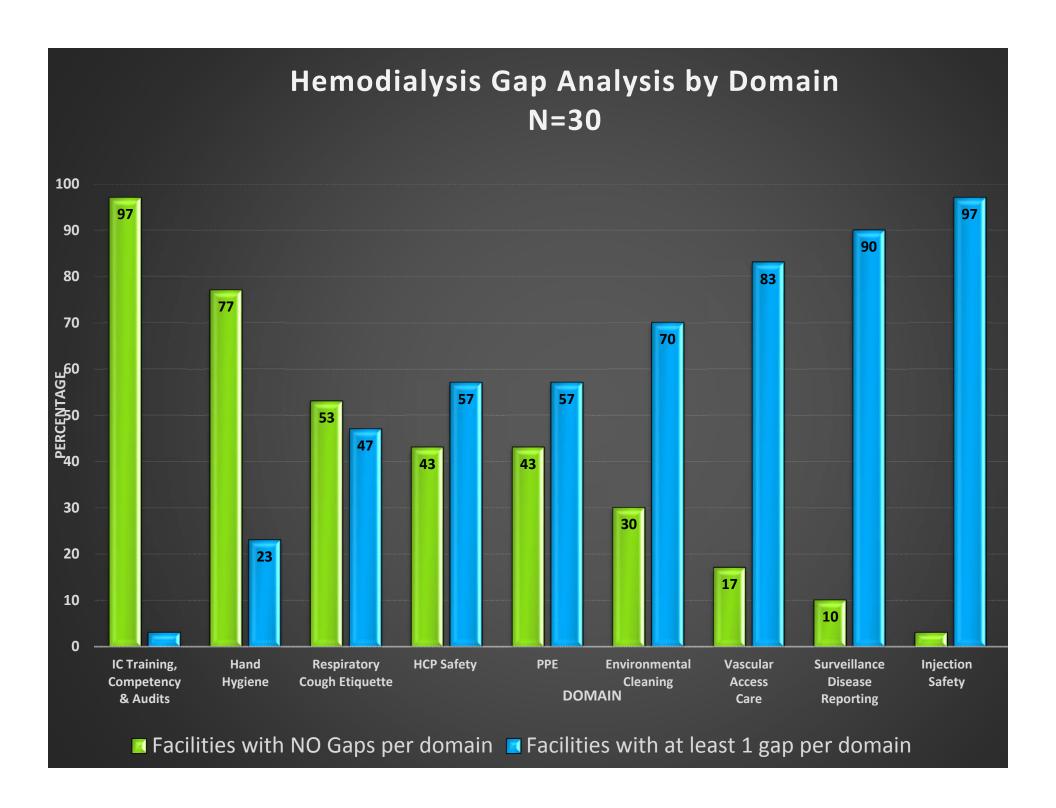


TYPE OF FACILITIES VISITED

GOAL=40 N=30

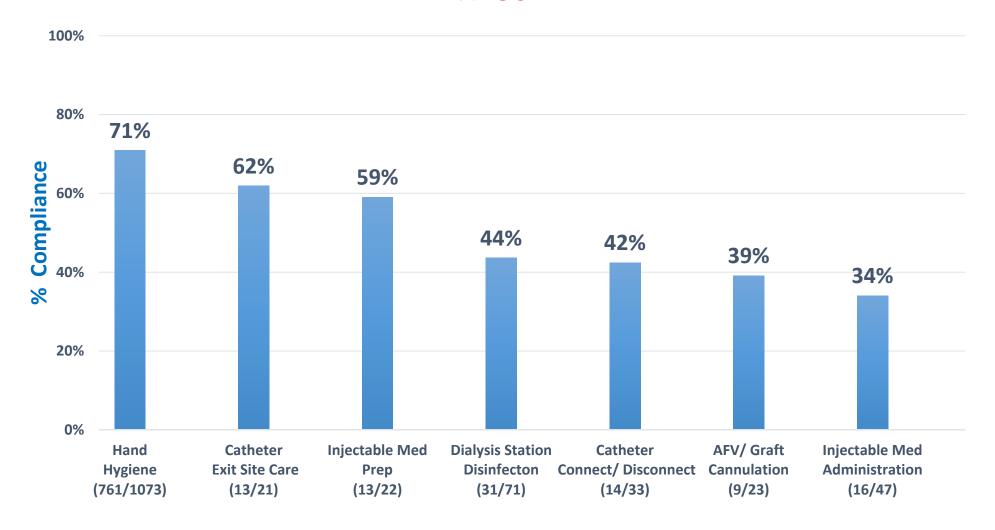
Dialysis Center	Free-standing Clinic	Hospital Contract	Total
National Company	6	6	12
Independent Company	17		17
Hospital Owned		1	1
Total	23	7	30





DIALYSIS PRACTICE OBSERVATION COMPLIANCE

N = 30



Practice Observations



DIALYSIS GAPS INJECTION SAFETY/MEDICATION PREP

- Safety devices
 - Lack of safety needles and not moving sharps bins to bedside
 - Best practices identified (mounted sharps on HD machines)
- Physically separate med room
 - Carts in patient care zones
 - Cross contamination with dirty items such as PPE/lack of HH



Routine cleaning of med prep areas

NO policy NO standard practice



DIALYSIS GAPS INJECTION SAFETY/OBSERVATIONAL GAPS

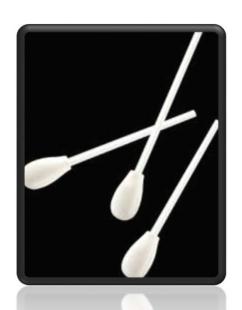
- Pre-assembling syringes and needles
- Not cleaning septum
- Not labeling MDV
- Not scrubbing ports with every access
- Pre-drawing of medications for extended periods of time (up to 4 hours)





DIALYSIS GAPS CATHETER AND VASCULAR ACCESS

- First line skin antiseptic agent
 - Betadine and/or alcohol (Not CHG)
- Antibiotic ointment or povidone-iodine ointment applied to catheter exit sites

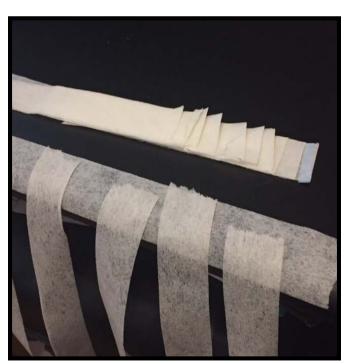


• Protocols exist; however provider dependent



DIALYSIS GAPS OBSERVATIONS

- Conflicting standards of care for Outpatient vs. Inpatient
 - "Clean" procedure for dressing changes
 - Dressings
 - Paper tape/gauze vs.
 CHG impregnated/BioPatch
- Antiseptic drying time
- Tape barrier to prevent contamination





DIALYSIS GAPS HAND HYGIENE

Observations

- Soap & water scrub < 15 seconds majority of time
- ABHR accessibility
- Before donning gloves
- After removing gloves
- Lack of HH by patient prior to gloving/applying pressure to access site

Best practices

- Mounted to HD machine
- Cleaning of patient hands/access sites prior to entering bay and upon discharge





DIALYSIS GAPS ENVIRONMENTAL CLEANING OBSERVATIONS

- Not allowing disinfectant to dry after cleaning HD station
- Bringing clean supplies to station when not ready for use
- Cleaning machine and prepping when chair has not been cleaned
- Not cleaning underneath chair tables or hanging clamps
- Inconsistent cleaning of shared keyboards
- Patient still present when cleaning



June 2, 2017
CMS Memo
Disinfection of Station



DIALYSIS GAPS ENVIRONMENTAL CLEANING

Does the facility have policies and procedures for routinely cleaning and disinfecting:

- **Dialysis Clamps**
- **Glucometers**
- **Dialysate Conductivity/pH meters**



Not following manufacturer IFU

Packet stated "single use only"

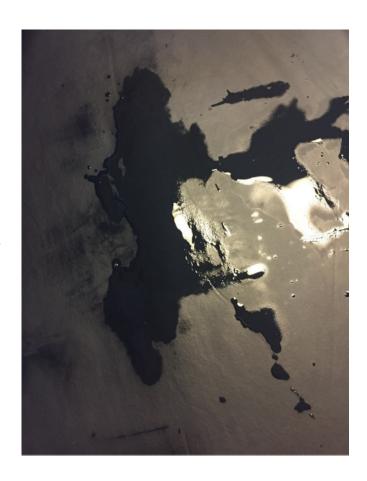




GOWNS NOT IMPERVIOUS









Tape and residue on bedside table — ready for patient





Supplies on top of HD machine while in use



- Tight space
- Blue bag with clamps open
- Suspicious blood spot on ready to use machine
- Clip board stored on top of machine





POINTS TO PONDER...



- Amount of patient care belongings in HD stations
- Eating during visit
- Individual trash cans
- Spacing of HD stations



MITIGATION EFFORTS





Statewide Program for Infection Control and Epidemiology

Education to prevent and control healthcare associated infections across the healthcare spectrum

Home

About SPICE

Ask SPICE

Facility Type

IC Courses

All Resources

On-Line Education

IC Assessments: ICAR

Related Links

0

PRACTICAL ADVICE FOR IMPLEMENTING AN ANTIBIOTIC STEWARDSHIP PROGRAM IN LONG TERM CARE



Lisa Davidson, MD Medical Director of Carolinas HealthCare System Antimicrobial Support Network







Infection Control Assessment and Response (ICAR)



Schedule a FREE Infection Control Assessment and Consultation

On-Line Infection Control Assessment

Infection Control Assessment (MS Word)

Infection Control Tools: Policy, Risk Assessment, Competency, and more

ICAR Program Background

Infection Control Tools: Policy, Risk Assessment, Competency, and more

IC Program / Policy

LTC Infection Control Program / Policy Sample

IC Risk Assessment

Template Risk Assessment

Competency Tools

Hand Hygiene Competency Tool

PPE Competency Tool

Injection Safety Competency Tool

Surveillance Tools for Long Term Care

UTI Infection Worksheet (NHSN) SPICE

Skin-Soft Tissue-Mucosal Infection Worksheet (McGeer) SPICE

Respiratory Tract Infection Worksheet (McGeer) SPICE

Gastroenteritis-Norovirus Infection Worksheet (McGeer) SPICE

C. difficile Infection Worksheet (NHSN-McGeer) SPICE

All GI Infection Worksheet (McGeer) SPICE



https://spice.unc.edu/infectioncontrol-tools-policy-risk-assessmentcompetency-and-more/

MITIGATION EFFORTS

- Patient safety follow up visits/action plans
- Updating SPICE NC .0206 training modules online/live
- Participation in outbreak investigations/education
- NC DPH, DHSR, SPICE outbreak regional education training





Statewide Program for Infection Control and Epidemiology

Education to prevent and control healthcare associated infections across the healthcare spectrum

Home About SPICE Ask SPICE Facility Type IC Courses All Resources On-Line Education IC Assessments: ICAR Related Links Q



NC .0206 law

Video available

Dr. Mask, Dr. Moore, Dr. Weber





SPICE online self assessment tool...





WHERE DO WE GO POST 3-31-2018?



- Remain vigilant
- Ask questions
- Develop sustainable partnerships for ongoing improvements
- Network with local facilities to promote IP and staff development
- Explore FTE options for expanding program
- Be an IP both at work and as a consumer



THANK YOU TO...

- All sites that welcomed us into their facilities
- North Carolina Department of Health (NC DPH)
- North Carolina Association of Professionals in Infection Control (APIC)
- North Carolina Hospital Association
 - North Carolina Division of Health Service Regulation (DHSR)
 - North Carolina Health Care Facilities Association (NCHCFA)
- End Stage Renal Disease Network 6 (ESRD)
- Dr. Weber, Dr. Moore & Dr. Mask
- Alliant Quality







Thank you for your time and for supporting this project!



