DFW APIC Chapter Annual Conference





Objectives

- Discuss the need for an integrated approach to HAI prevention across the continuum of care
- Discuss the role of Infection Prevention to achieve the IHI Triple Aim and reduce Healthcare Associated Infections
- Discuss the core elements of HAI prevention and their application to both acute care and post-acute care

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Evolution of US Healthcare Quality	
Transparency	
 public reporting laws and public demand 	
Preventability	
demonstrated success with adherence to recommended pr	ractices
Incentives	
CMS reimbursement tied to reporting and outcomes	
National Expansion	
antimicrobial resistance initiative	
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Regional control of Carbapemen-resistant Enterobacteriaceae (CRE)



 Won S, Munoz-Price S, Lolans K, Hota B, Weinstein R, Hayden M. for the Centers for Disease Control Prevention Epicenter Program. Rapid and Regional Spread of Klebsiella pneumoniae Carbapenemased CID 2011:53: 532-540



















U.S. Nursing Home Antibiotic Use:

Assessing and Improving Antibiotic Use in Nursing Homes

Point prevalence survey of antibiotic use pilot in nursing homes (9) completed CDC's Emerging Infection Program sites are currently collecting data an antibiotic use point prevalence survey

Purchasing proprietary data Funding nursing home network to implement and evaluate Core Elements

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Implementation of the Core Elements of antibiotic stewardship for Nursing Homes

Partnership with CMS quality improvement Collaboration with professional organizations

- Community engagement and education

entives/requirements for antibiotic wardship in all healthcare settings:

- Hospitals: Joint Commission standard and proposed CMS requirement
- Nursing homes: New CMS requirement
- Outpatient: Stewardship including in new payment system.





Equipment Design and Reprocessing

• The growing complexity of reusable medical equipment complicates optimal reprocessing

Design Elements Prone to Retaining Biological Material Lumens with long, narrow interior channels too small to pass a brush through or with ridges, angles, or non-smooth interior Hinges, O-rings

Sleeves surrounding rods, blades, activators, inserters, etc. Adjacent device surfaces where debris can get stuck

Valves that regulate flow of fluid through a device (stopcock)

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Devices with features that hinder disassembly

DA Website. Updated August 4, 2015. Accessed October 3, 2016. DFW APIC Chapter, October 20, 2017 © 2017 Infection Prevention Institute, Inc. All Rights Reserved

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Designing for Intended Use • Manufacturers should consider all intended users when designing medical equipment Who Uses the Device? Differences in devices from model to model or manufacturer to manufacturer further complicate reprocessing ction Preventin DFW APIC Chapter, October 20, 2017 © 2017 Infection Prevention Institute, Inc. All Rights Re





Prevention Starts With Purchasing Decisions







Reprocessing/Maintenance Program

•Key elements of an after-purchase program

- How to use the device safely
- How to reprocess the device appropriately
- List of all steps and staff responsible for each step
- Design complexities that require special attention
- How to maintain the device per manufacturer instructions (including preventive maintenance)
- Failing to follow the manufacturer's instructions can damage equipment and increase risk to patients.

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Emerging Future Threats

- Human exposure to new environments

- Changes in animal or vector exposure
- New care environments
- New procedures
- New devices and products

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Summary

- Collaborate and Communicate with all stakeholders about "antimicrobial stewardship" relative to the clinical environment of care
- Reduce the risk for the clinical environment of care to serve as a <u>vector</u> for transmission across the continuum of care
- Integrate EVS into the clinical care team

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- Focus on <u>basic core</u> infection control practices before deploying adjunctive technologies
- <u>Training</u> is critical and emphasize <u>back to the</u> <u>basics</u>







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Questions

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