

Disclaimer:

None ©

Learning Objectives

- The participant will be able to describe the basic difference between Continuous UV (UV-C) Disinfection and Pulsed Xenon UV Disinfection
- The participant will be able to list at least 3 advantages to UV-C disinfection
- The participant will be able to identify 3 implementation and workflow challenges

UV Disinfection Market Analysis

- Germicidal UVC Energy
- Researching Efficacy of UV Disinfection Systems

Building the Business Case

- Trials
- Culture Testing
- Capital Request Process
- Top-Down Approach
- Return-On-Investment

Implementation and Workflow Challenges

- Working with EVS Leadership
- Working with Department Managers
- Hospital-Wide & Community Education
- Use Cases

Satisfying JCAHO Documentation

- Standard Operating Procedures
- Safety Documentation

Results Monitoring

- Usage Tracking
- Results Monitoring & HAI Rate Correlations
- Results at O'Connor Hospital

Also our rates are this.								
	QE 9/13	QE 12/13	QE 3/14	QE 6/14	QE 9/14	QE 12/14	QE 3/15	FY2013 LHM Target
Definition - C. difficile Infection rate = Number of hospital onset CDI cases / Number of patient days X 100,000 (excluding NICU and well baby patient days)								
CDI Numerator (# of HAI/hospital onset lab identified CDI)	11	8	5	2	10	10		
CDI Denominator (# of patient days, exclude NICU, Nursery)	9884	11001	10306	9191	10041	9486		
HAI Clostridium difficle Infection Rate	11.13	7.27	4.85	2.18	9.96	10.54		
		TRU-D Trial 10/13	TRU-D Launch 03/14		EVS Mgmt Turnover 07/14		Review of Usage Optimization	

Other 'Best Practice' Tips

- True 'Cost' of UV Disinfection Systems
- Culture Testing vs. ATP Testing
- UV Disinfection vs. Other Advanced Terminal Disinfection Technologies

Q&A Session

• How can I help provide further guidance?

References

- 1. Decontamination of Targeted Pathogens from Patient Rooms Using and Automated Ultraviolet C-Emitting Device, Deverick J. Anderson, MD, MPH; Maria F. Gergen, MT (ASCP); Emily Smathers, MPH; Daniel J. Sexton, MD; Luke F. Chen, MBBS, MPH; David J. Weber, MD, MPH; William A. Rutala, PhD, MPH; CDC Prevention Epicenters Program; Infect Control Hosp Epidemiol 2013, Vol 34(5) 466--471
- 2. Evaluation of an automated ultraviolet radiation device for decontamination of Clostridium difficile and other healthcare--associated pathogens in hospital rooms, Michelle M Nerandzic, Jennifer L Cadnum, Michael J Pultz and Curtis J Donskey MD.., BMC Infectious Diseases 2010, 10:197
- 3. Evaluation of a Pulsed Xenon Ultraviolet Disinfection System for Reduction of Healthcare-Associated Pathogens in Hospital Rooms, Michelle M. Nerandzic, Priyaleela Thota, Thriveen Sankar C., Annette Jencson, Jennifer L. Cadnum, Amy J. Ray, Robert A. Salata, Richard R. Watkins and Curtis J. Donskey Infection Control & Hospital Epidemiology, January 2015, pp 1 6 DOI: 10.1017/ice.2014.36
- 4. Inter-hospital Variation in Time Required for Hospital Room Ultraviolet (UV)-C Irradiation Anderson DJ,1 Rutala WA,2 Knelson LP,1 Moehring RW,1 Chen LF,1 Weber DJ,2 Sexton DJ,1 and the CDC Prevention Epicenters Program 1 – Duke Infection Control Outreach Network, Durham, NC, USA; 2 – UNC Health Care, Chapel Hill, NC