Antimicrobial Stewardship	
Providers	
Antinoiomahial Chausandahia (AC)	
Antimicrobial Stewardship (AS)	
Refers to coordinated interventions designed to improve and measure the appropriate use	
of antimicrobials by promoting the selection of the optimal antimicrobial drug regimen,	
dose, duration of therapy, and route of administration	
https://www.idiocekty.org/Stewardsinj-Folkoj/	
Importance of Antimicrobial Stewardship	
 Global threat of antibiotic resistance A decrease in the number of new antibiotics 	
being developed and approved	
 Requirement (survey element) by CMS and The Joint Commission effective January 1, 2017 	

1	\ntim	icrobi.	al L	Ise and	l Res	istance

- Each year in the U.S. at least 2 million people become infected with resistant bacteria and at least 23,000 people die as a direct result of these infections
- At least 250,000 C.diff infections and 14,000 deaths which are directly related to antibiotic use and resistance occurs each year in the U.S.

http://www.cdc.gov/drugresistance/about.html

Antimicrobial Use and Resistance

- Antimicrobial resistance is more prevalent in healthcare—associated bacterial infections, compared with those from communityacquired infections
- Patients with healthcare—associated infections caused by resistant strains are more likely than control patients to have received prior antimicrobials

CID 2007;44:159-7

Antimicrobial Use and Resistance

- Areas within hospitals that have the highest rates of antimicrobial resistance also have the highest rates of antimicrobial use
- Increasing duration of patient exposure to antimicrobials increases the likelihood of colonization with resistant organisms

CID 2007;44:159-7

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Goals of Antimicrobial Stewardship Optimize clinical outcomes Reduce morbidity/mortality Decrease length of stay Minimize unintended consequences Toxicity Selection of pathogenic organisms Emergence of resistance Reduce healthcare costs	
Strategies of an Antimicrobial Stewardship Program Prospective audit with intervention and feedback Education Guidelines and clinical pathways Streamlining or de-escalation of therapy Dose optimization Formulary restriction and preauthorization Antimicrobial cycling Antimicrobial order forms Combination therapy Parenteral to oral conversion	
Current Actions at "Facility" • What is WHS doing to decrease antibiotic use and improve appropriate therapy? – Multidisciplinary Antimicrobial Stewardship Team – ID physicians – ID pharmacists – Reporting antimicrobial use data – Education – Order set review	

Medication use evaluationsResearch projects

Drug shortages with recommendationsAntibiogram

What can providers do to help?

- Chose the correct **indication and dose** when ordering antimicrobials
- Review appropriateness of empiric antimicrobials after the initial 48 hours
- **De-escalate** therapy
- Apply **stop dates** to orders
- Assess allergies (especially β-lactam allergy)
- IV to PO conversion

What can providers do to help?

- Refer to antibiogram for empiric therapy
- Ensure correct duration of therapy (DOT) for discharge antibiotics
- Document recent antibiotic exposure
- Use evidence based/guideline recommended treatments and DOT
- **Decrease** *C.diff* **risk factors** (decrease PPI usage, decrease antibiotics that increase risk)
- Ensure appropriate use of protected antibiotics

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