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Implementation of Antimicrobial Stewardship Makes a Difference

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Abstract

Antimicrobial stewardship is a coordinated program that promotes the appropriate use of antimicrobials (including antibiotics), improves patient outcomes, reduces microbial resistance, and decreases the spread of infections caused by multidrug-resistant organisms.

7 Core Elements of Antimicrobial Stewardship Programs are

- Leadership commitment.
- Accountability
- Drug expertise.
- Action.
- Tracking.
- Reporting.
- Education.

Discussion: Clinical Microbiologist play a key role in the Antimicrobial Stewardship program. Provide the cumulative antimicrobial susceptibility reports, enhanced culture and susceptibility reports, guidance in the preanalytic phase, rapid diagnostic test availability, provider education, and alert and surveillance systems. Indications should be evidence based. Narrowest spectrum required with appropriate doses to the site and type of infection with minimal duration of infection. Ensure monotherapy in most cases.

De-escalation of Antibiotic Treatments a concern and important. Stop therapy promptly if indicated by culture results. Discontinue antibiotics after 48 hours if blood cultures are negative and ongoing infection is not suspected. Restrict the Use of higher generation antibiotics with restricted antibiotic policy. Computer surveillance and decision support should be there. Automated alerts for redundant antibiotic combinations. Monitoring Success of Antimicrobial Stewardship by successful implementation and safety. Then can be monitored by cost reduction, DOT and DDD.

Conclusion: The emergence of antibiotic resistant organisms (AROs) has been linked to the inappropriate use and overuse of antibiotics. Antimicrobial stewardship is recognized as a critical patient safety and quality imperative to combat the emergence of antimicrobial resistance (AMR) and preserve the activity of existing agents. The primary goal of antimicrobial stewardship is to optimize clinical outcomes while minimizing unintended consequences of antimicrobial use, including toxicity and the emergence of resistance

Biography

Poonam is an MD in medical microbiology with extensive academic experience as an Assistant Professor in Lady Hardinge Medical College. Her academic research was primarily focussed on mycology, hopsital infection control (HIC), serology, antibiotic resistance, antibiotic stewardship and accreditataion of laboratories according

to ISO standards. She managed multiple projects and students during her tenure as an Assistant Professor. Her interest and enthusiansm in management made her manage MBBS batches and also lead the effort in establishing the new laborartory facility. In her present role, she published multiple papers (in the areas of HIV, mycology, hospital infection control, serology and bio-medical waste management) and delivered expert talks in multiple national and state level conferences.