

Antimicrobial Stewardship



We know children.

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.



Antimicrobial Stewardship

- Antibiotics are among the most commonly prescribed drugs used in human medicine.
- ~50% of all antimicrobial therapy is inappropriate (not needed or not optimally effective as prescribed).
- Inappropriate use of antibiotics promotes emergence and expansion of resistant organisms, adverse effects (*C. diff*) and excessive costs.
- **2,049,442 illnesses** caused by antibiotic drug-resistant organisms in the U.S. each year, resulting in **23,000 deaths**.

Antimicrobial Stewardship Program



We know children.

- **Vision**: to ensure that all children receive optimal anti-infective therapy with a goal of utilizing the *right drug for the right bug*, for the *right duration* and *right route*.
- **Purpose**: to optimize clinical outcomes while minimizing the unintended consequences of inappropriate antimicrobial use (e.g. development of antibiotic resistance, adverse side effects, medication toxicity, excess healthcare costs).

Antimicrobial Stewardship Program

- Currently, we review
 - All positive blood cultures
 - Potential drug-bug mismatches
 - Duplicate anti-infective agents
 - Restricted anti-infective agents
 - Potential de-escalation opportunities
 - Antimicrobials on the P&T protected drug list
- Feedback/recommendations given to care teams



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