Antibiotic Stewardship Programme (ASP) Rounds

Objective: To improve antimicrobial use in the PICU at McMaster Children’s Hospital through limiting inappropriate antimicrobial use and the emergence of antimicrobial resistance, prevention of adverse drug effects, and ultimately to improve patient outcomes.

ASP Antimicrobial prescribing principles: “START SMART THEN FOCUS” (see overleaf)
1. When starting Antibiotics: consider (START SMART) picking the: 4 R’s
   - Right Drug
   - Right Dose
   - Right Route (PO, IV)
   - Right Duration

2. Review patient and microbiological results every 24h, and conduct ASP monitoring each day by reviewing suitability of “SSCC”
   - Stop
   - Switch to PO
   - Change the spectrum (narrow/broaden if needed)
   - Continue and review in 72 hours

ASP Rounds:
When: Twice a week (Monday and Fridays at 10 am)
Where: PICU work room
Who should attend: the ASP team (ID Staff on service and Melani (ID Pharmacist), and the PICU team (PICU Staff, Fellows, residents, ICU Pharmacist)
Who should be discussed: All patients on antimicrobials, in whom ID is not formally consulted
How: ASP rounds are designed to be brief. The expectation is that each patient is discussed concisely. Hence the resident and/or pharmacist should come prepared with the following key information.

“SMART START” – why antimicrobials were started
- Patient info: reason for admission, active problem list, allergies, previous pathogens
- Antimicrobials: indication(s) for antimicrobials, start date, dose and frequency, planned duration of antibiotics?

FOCUS (SSCC)
- Can they be Stopped?
  - current clinical status and progress, ongoing signs of sepsis?
  - culture results, source, date
  - other relevant: relevant imaging, surgical procedure and date
  - additional risk factors: invasive lines/tubes/foreign bodies,
- Change in spectrum (narrow/broaden)?
- Switch to po? Can patient use enteral route?
• Continue and review in 72h

**ASP Resources:**

- Intranet → Department & Committees → Antimicrobial Stewardship Program
  - Antibiogram
  - Guidelines
  - Order sets
- PHO: [http://www.publichealthontario.ca/en/BrowseByTopic/InfectiousDiseases/AntimicrobialStewardshipProgram/Pages/Antimicrobial-Stewardship-Program.aspx#.Vv66alsrKUk](http://www.publichealthontario.ca/en/BrowseByTopic/InfectiousDiseases/AntimicrobialStewardshipProgram/Pages/Antimicrobial-Stewardship-Program.aspx#.Vv66alsrKUk)
- CDC “Get Smart” initiative: [http://www.cdc.gov/getsmart/](http://www.cdc.gov/getsmart/)