

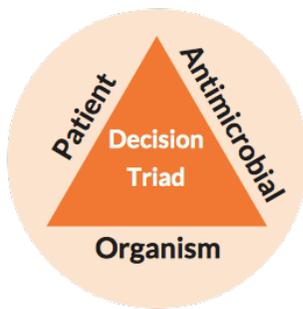
Antimicrobial Selection Worksheet



Critical assessment of unique clinical scenarios is key to making reasonable therapy decisions. This worksheet is meant to prompt important questions during this process.

Fundamental Questions

- Is the antimicrobial desired for treatment, prevention, or suppression of an infectious disease?
- What is the indication or working diagnosis? [Including which infection type(s) and suspected organism(s)]
- What is the suspected or known source of the infection?
 - Is an intervention (e.g., surgery) necessary to address the source of the infection?
- What symptoms of an infectious disease process are present? (i.e., subjective findings)
- What signs of an infectious disease process are present? (i.e., objective findings) } Note timeline of data
 - Chemistry lab results (e.g., BMP or CMP, CBC, procalcitonin, urinalysis, lumbar puncture)
 - Microbiology lab results (e.g., specimen types, collection technique, culture results, resistance data)
 - Diagnostic imaging results (e.g., ultrasound, CT, MRI, X-ray)
 - Physical assessment findings (e.g., fever)
- What therapies have been tried thus far and what results have those therapies produced?
- Are there any contraindications or concerns with using the common antimicrobials given for this indication?



Pharmacokinetics: movement of drug through the body

---> How the body effects the drug

Pharmacodynamics: toxicity and efficacy of the drug

---> How the drug effects the body

Drug Factors

- Pharmacokinetics
- Pharmacodynamics
- Drug interactions
- Side effects
- Available formulations
- Spectrum of activity
- Cost

Patient Factors

- Overall clinical status
- Infectious process type
- Comorbid conditions
- Allergies (and reaction details)
- Infection risk factors
- Age, weight, height, sex
- Organ function (e.g., kidney, liver)

Organism Factors

- Anticipated drug sensitivity
- Known drug-resistance
- Pathogenicity / virulence
- Ease of detection

NOTES:

Abbreviations: BMP = basic metabolic panel, CBC = complete blood count, CMP = complete metabolic panel, CT = computed topography, MRI = magnetic resonance imaging

Disclaimer: Factors not listed may impact antibiotic selection. This is not a replacement for sound clinical judgment.