Cheatography

Principles of AMT Cheat Sheet

by Carm (Carmilaa) via cheatography.com/49544/cs/15400/

Principles for rational prescribing

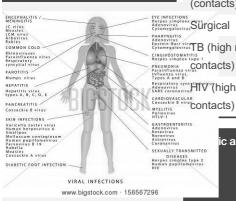
- 1. Is an antibiotic indicated?
- 2. Cultures before administering AB in hospitalised patients or patients with recurrent infections
- 3. Choose an appropriate empiric antibiotic
- 4. Correct dose and route of administration
- 5. Start AB rapidly in severe infections
- 6. Practice early and effective source control
- 7. Evaluate appropriateness everyday

When is an antibiotic indicated?

Depend on diagnosis?

- > Fever
- > Leukocytosis
- > Raised inflammatory markers
- > Specific organ dysfunction

When is an antibiotic indicated?



Antibiotics Indicated:

P= prophylactic treatment

> Prevention of new/recurrent infections

E= empirical treatment

> treat for most likely infective organism (no culture results yet)

D= Definitive treatment

> treat w/ AB as per results of microbial culture and sensitivity (MCS)

Leukocytes&Inflammatory Markers:

Haematology

3,		
White Cell	4-11/L	+
count		
Erythrocyte	0-	+
sedimentation	22mm/hr	
rate	(men)	
	0-29mm/hr	
	(women)	
Platelets	140-	-
	440/L	
C-reactive	0-10	+

Prophylactic treatment:

protein

Infective endocarditis (patients with prosthetic heart valves/va-Ivular disease)

- > Dental, oral or URT procedures
- > GU surgery / GI procedures

Rheumatic fever (reoccurrence)

Meningococcal disease (contacts)

PHAEYNGITIS Adency risk Adency risk individuals / Cyromogalovirus TB (high risk individuals /

Respiratory synchilly (high risk individuals / CARDIOVASCULAR CONSackie B virucontacts)

DISEASES Herpes simplex type 2 Human papillomavirus HIV

ic antibiotic is indicated:

Empiric antibiotic is indicated: (cont)

2. Site of infection:

Peripheral line sepsis=skin/soft tissue. Likely pathogen. Staph. aureus. Coagulase negative staphylococci, strep. spp.

Cutaneous Abscess:

Deep inflammatory nodule extending into subcutaneous tissue that preceding folliculiti

Complicated cases (surrounding cellulitis, located on face, systemic si Flucloxacillin 500 mg po 6-hourly for 5 days or co-amoxiclav 1g

In penicillin allergy use clindamycin 450 mg po 8 hourly

Empiric Treatments:

Most likely pathogen for site of infection

- > Gram + cocci: Skin
- > Gram bacilli: Urethras
- > Gram + and -, Large anareobes: intestine

Classification of Bacteria:

CLASSIFICATION OF BACTERIA



Osteomyelitis:

Bacterial infection of bone due to contaguous spread from soft tissues, haematogenous seeding or direct inoculation.

Common aetiologies

- S aureus. - Coagulase---negative staphylococc

Occasional

- Streptococci. Enterococci.
- Gram---negative bacilli.

Other

- M tuberculosis. - Fungal infections.

Empiric Treatment: drug distribution:

	CSF	Lung	Soft tissue	- 1
Ampicillin	Good (in high doses)	Good	Good	- 1
Cloxacillin	Inadequate data	Fair	Good	
Clindamycin	Poor	No data	Good	
Co-amoxiclav	Poor	Good	Good	
Ceftriaxone	Good (in high doses)	Good	Good	(
Aminoglycosides	Poor	Poor	Fair	-
Ciprofloxacin	Good (in high doses)	Good	Good	-
Co-trimoxazole	Good	Good	Good	-
Ertapenem	Poor	Good	Good	- 1
Meropenem	Good (in high doses)	Good	Good	-
Imipenem	Good*	Good	Good	-
Vancomycin	Poor	Fair	Poor	-
Linezolid	Good	Good	Good	- 1
Daptomycin	Poor	Poor	Good	- 1

Will AB reach site of infection?

Definitive Treatment:

Microbial culture and sensitivity results done.

Culture of:

- > Urine
- > Sputum
- > Cerebrovascular fluid
- > Nasal secretions
- > Wound / throat swab
- > Blood

Microbial Culture:

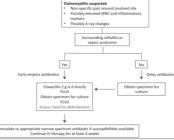
Growing microbe to identify the type of bacteria.

Microbial Sensitivity:

Identify which antibiotics inhibits the growth of the microorganism

Microbial Culture (cont.):

Osteomyelitis (cont)



Diagnosis and Treatment

Osteomyelitis (cont.)

Choose by assessing:

1. Source of infection:

Community acquired Before or less than 48 hours of admission to hospital. Microorganism expected? Wild/non-resistant mo's. 1st line antibiotics. Less side effects.

Hospital acquired >48 hours after admission or within 30 days of discharge. Microorganisms expected? Mutated / resistant microorganisms. Second line antibiotics. More side-effects.

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- May need to continue IV therapy for 6 weeks or longer
 Do not add rifampicin in cases without foreign material
 Consider tuberculosis if culture-negative or no clinical improvement continued to the continued of the continued in the continued of t

	Oral absorption (%)	Comments
enicillin VK	Moderate	Take without food
kmoxicillin	Good	
lucloxacillin	Good	Take on empty stomach
lindamycin	Good	
o-amoxiclav	Good	
iprofloxacin	Good	Do not give via NGT or with antacids
loxycycline	Excellent	Take with food, do not co-administer with antacids
zithromycin	Poor	Take without food
Metronidazole	Excellent	
o-trimoxazole	Good	
inezolid	Excellent	

Diagnosis and treatment notes.

routes of administration.

Recurrent



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Microbial Culture (cont.):

Duration	Indication
3 days	Uncomplicated UTI (quinolone ONLY), Shigellosis (without bacteraemia, quinolone ONLY)
5 - 7 days (or 3 days after normalization of fever)	Uncomplicated UTI (non-quinolone), Otitis Media, Pneumonia, Meningococcal meningitis, Tick bite Fever [7]
10 (- 14 days)	Sinusitis, Pneumococcal meningitis, Pyelonephritis, pharyngitis (S. pyogenes), Complicated UTI, Prostatitis (acute), Shigellosis (with bacteraemia), Helicobacter eradication (14), Gonococcal arthritis
21 days	Meningitis (Listeria or Gram-negative)
4 weeks	Endocarditis (prosthetic valve 6 weeks), Osteomyelitis, Septic arthritis, Prostatitis (chronic), Brucellosis (6 weeks)

Recommended duration of definitive treatment.

Case study questions:

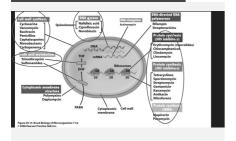
Rationalise if an antibiotic is indicated?

What pharmacological / non-pharmacological treatment would you recommend?

How would you monitor the efficacy and safety of the treatment once initiated?

What is a possible complication of a sore throat? - Otitis media (spread of infection to the middle ear) Meningitis (spread of infection to the lining of brain and spinal canal) Pneumonia (lung infection)

Road Map:





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