Cheatography

Principles of AMT Cheat Sheet

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

Principles for rational prescribing

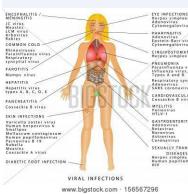
- 1. Is an antibiotic indicated?
- 2. Cultures before administering AB in hospitalised patients or patients with recurrent infections
- 3. Choose an appropriate empiric antibiotic
- 4. Correct dose and route of administration
- 5. Start AB rapidly in severe infections
- 6. Practice early and effective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



CARDIOVASCULAR CONTACTS) MYELITIS Poliovirus HTLV-1 GASTROENTER Adenovirus Rotavirus DISEASES Herpes simplex type 2 Human papillomavirus HIV

Leukocytes&Inflammatory Markers:

Haematology

White Cell	4-11/L	+
count		
Erythrocyte	0-	+
sedimentation	22mm/hr	
rate	(men)	
	0-29mm/hr	
	(women)	

140-

440/L

Platelets

C-reactive 0-10 protein

Prophylactic treatment:

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)

EVE INFECTIONS
HETPES SIMPLEEX Surgical
Adenovirus
Cytomegalovirus Surgical

PHAEYNGITIS Adency rise TB (high risk individuals / Cyromegalsylrus TB) NEUMONIA CONTACTS)
riainfluenza virus
fluenza virus
pes A and B,

Respiratory synchilly (high risk individuals /

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.

Empiric Treatments: Most likely pathogen for site of

infection

> Gram + cocci: Skin

> Gram - bacilli: Urethras

> Gram + and -, Large anareobes: intestine

Cutaneous Abscess:

Deep inflammatory nodule extending into subcutaneous tissue that preceding folliculiti

licated cases (surrounding cellulitis, located on face, systemic s

Flucloxacillin 500 mg po 6-hourly for 5 days or co-amoxiclav 1g In penicillin allergy use clindamycin 450 mg po 8 hourly

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.

Osteomyelitis (cont)

Diagnosis and Treatment

Osteomyelitis (cont.)

Empiric Treatment: drug distribution:

		_		
	CSF	Lung	Soft tissue	U
Ampicillin	Good (in high doses)	Good	Good	G
Cloxacillin	Inadequate data	Fair	Good	N.
Clindamycin	Poor	No data	Good	- N
Co-amoxiclav	Poor	Good	Good	F
Ceftriaxone	Good (in high doses)	Good	Good	G
Aminoglycosides	Poor	Poor	Fair	6
Ciprofloxacin	Good (in high doses)	Good	Good	6
Co-trimoxazole	Good	Good	Good	e
Ertapenem	Poor	Good	Good	G
Meropenem	Good (in high doses)	Good	Good	6
Imipenem	Good*	Good	Good	G
Vancomycin	Poor	Fair	Poor	G
Linezolid	Good	Good	Good	e
Daptomycin	Poor	Poor	Good	6
*Associated with	higher risk of seizur	es		

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.):

Antibiotics Indicated:

P= prophylactic treatment

> Prevention of new/recurrent

E= empirical treatment

organism (no culture results yet)

D= Definitive treatment

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

infections

> treat for most likely infective

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.

- May need to continue IV therapy for 6 weeks or longer
 Do not add rifampicin in cases without foreign material
 Consider tuberculosis if cultrut-negative or no clinical improvement
 Vancomycnis used for health care-associated sotemyelitis or confir. Ce
 MRSA (loading dose 23 30 mg/kg followed by 15 20 mg/kg 12-hot,
 maintain trough levels 15 20 mg/mL)
 See Chapter 18 for management of open fractures
 Infections associated with prosthetic material should be discussed wi

	Oral absorption (%)	Comments
enicillin VK	Moderate	Take without food
moxicillin	Good	
lucloxacillin	Good	Take on empty stomach
lindamycin	Good	
o-amoxiclav	Good	
iprofloxacin	Good	Do not give via NGT or with antacids
oxycycline	Excellent	Take with food, do not co-administer with antacids
zithromycin	Poor	Take without food
letronidazole	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), Complicate Prostatitis (acute), Shigellosis (with bacteraemia), Helicobacter eradication (14), Gonococ 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:

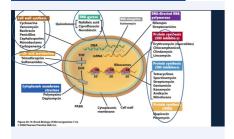
Rationalise if an antibiotic is indicated?

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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