# Cheatography

# Principles of AMT Cheat Sheet by Carm (Carmilaa) via cheatography.com/49544/cs/15400/

Principles for rational prescribing	Leukocytes&Inflammat	Empiric antibiotic is indicated:	Osteomyelitis:
1. Is an antibiotic indicated?	ory Markers:	Choose by assessing:	Bacterial infection of bone due t
<ol> <li>Cultures before administering AB in hospitalised patients or patients with recurrent infections</li> </ol>	Haematology White 4-11/L +	1. Source of infection: Community acquired Before or less t	contaguous spread from soft tis haematogenous seeding or dire han inoculation.
3. Choose an appropriate empiric antibiotic	Cell count	48 hours of admission to hospital. Microorganism expected?	Common aetiologies
4. Correct dose and route of administration	Erythroc 0- +	Wild/non-resistant mo's. 1st line	– S aureus. – Coagulasene
5. Start AB rapidly in severe infections	yte 22mm/hr	antibiotics. Less side effects.	staphylococc
6. Practice early and effective source control	sediment (men) ation		Occasional
7. Evaluate appropriateness everyday	rate	Hospital acquired >48 hours after admission or within 30 days of discha	- Streptococci Enterococci
When is an antibiotic indicated?	0-29mm/hr (women)	Microorganisms expected? Mutated / resistant microorganisms. Second lin	
Depend on diagnosis?	Platelets 140	antibiotics. More side-effects.	– M tuberculosis. – Fungal
> Fever	440/L		infections.
> Leukocytosis	C- 0-10 +	Recurrent	
<ul> <li>Raised inflammatory markers</li> </ul>	protein	2. Site of infection:	Osteomyelitis (cont)
> Specific organ dysfunction	protein	Peripheral line sepsis=skin/soft tissue Likely pathogen. Staph. aureus.	C. Oteomyelitis suspected • Non-specific pain around involved • Possible viewated WBC and inflamm markers • Possible Viewarchanges
When is an antibiotic indicated?	Prophylactic treatment:	Coagulase negative staphylococci, s spp.	
REFERENTIS Certisa Constant Const	<ul> <li>Infective endocarditis         <ul> <li>(patients with prosthetic heart valves/valvular disease)</li> <li>&gt; Dental, oral or URT procedures</li> <li>&gt; GU surgery / GI procedures</li> </ul> </li> </ul>	Cutaneous Abscess:         Definition         Deep inflammatory nodule extending into subcutaneous tissue that develops from preceding folliculitis         Common aetiologies         S. aureus         Tests         None         Management         All cases require surgical drainage.         Uncomplicated cases         • No antibiotics required         Complicated cases (surrounding cellulitis, located on face, systemic symptoms)         • Fluctosacillin 500 mg po 6-hourly for 5 days or co-amoxiclav 1g po 12-hourly         • In penicillin allergy use cindamycin 450 mg po 8 hourly	tery empire antibiotics Use provide the second se
uaeila leasies oxsackie A virus NABETIC FOOT INFECTION HIV	Rheumatic fever		Notes:
VIRAL INFECTIONS www.bigstock.com · 156567296	(reoccurrence) Meningococcal disease		
	(contacts)		<ul> <li>See Chapter 18 for management of open fractures</li> <li>Infections associated with prosthetic material should I expert</li> </ul>
P= prophylactic treatment	Surgical		
> Prevention of new/recurrent infections	TB (high risk individuals / contacts)		Diagnosis and treatment notes
E= empirical treatment > treat for most likely infective organism (no culture results yet)	HIV (high risk individuals / contacts)	-	
D= Definitive treatment > treat w/ AB as per results of microbial culture and sensitivity (MCS)			
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Empiric Treatments:	
Most likely pathogen for	or site of infection
> Gram + cocci:	Skin
> Gram - bacilli:	Urethras
> Gram + and -, anareobes:	Large intestine

### Classification of Bacteria:



### Empiric Treatment: drug distribution:

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

### 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.):

	Oral absorption (%)	Comments
Penicillin VK	Moderate	Take without food
Amoxicillin	Good	
Flucloxacillin	Good	Take on empty stomach
Clindamycin	Good	
Co-amoxiclav	Good	
Ciprofloxacin	Good	Do not give via NGT or with antacids
Doxycycline	Excellent	Take with food, do not co-administer with antacids
Azithromycin	Poor	Take without food
Metronidazole	Excellent	
Co-trimoxazole	Good	
Linezolid	Excellent	

#### routes of administration.

### 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]		
0 (- 14 days) Sinusitis, Pneumococcal meningitis, Pyelonephritis, pharyngitis (S. pyogenes), Compl Prostatitis (acute), Shigellosis (with bacteraemia), Helicobacter eradication (14), Gon 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.



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### Case study questions:

Rationalise if an antibiotic is indicated?

What pharmacological / nonpharmacological 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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