## MEG Demo (Staff App) - MEG Demo - MEG Staff app: Common Infections

## Skin and Soft tissue infections (SSTIs)

#### **Skin and Soft Tissue Infections:**

- Superficial skin (and soft tissue) infections and chronic varicose ulcers usually do not require antibiotic therapy,
- A disinfectant, such as aqueous chlorhexidine (Unisept®), applied to the lesion is often satisfactory
- Topical antibiotics should not be used; if an antibiotic is required a systemic preparation should be prescribed
- Microbiological swabs can indicate multiple pathogens and may reflect colonisation. Interpret within clinical context and target therapy against likely organisms.

## **Surgical Site Infection:**

- Surgical Site Infections should be classified and documented according to CDC definitions above
- Antimicrobials in conjunction with wound exploration and drainage required for true infection
- If abscess formation is suspected, drainage must be carried out, as antibiotic therapy alone will prolong the course of the infection without eradicating it.

### Skin and Soft tissue infections - Table

Clinical Conditions (x)	Likely Organisms	Antimicrobial Dosage	Approx Duration of	Comments
			Therapy	
Empiric therapy	Beta-haemolytic strep	Benzylpenicillin 2.4g IV		Use clindamycin
Mild (no evidence of	Group A	QDS	Microbiologist.	450-600mg IV QDS in
systemic sepsis)	Staph aureus	plus		penicillin allergy.
systemic sepsis)	Otapii daredo	pido		Infection with MRSA
		Flucloxacillin 1-2g IV		should be suspected
		QDS		if:
				<b>"</b> "
				<ul> <li>MRSA Colonised</li> </ul>
				Recent
				hospitalisation in
				last 12 months
				<ul> <li>Transfer from</li> </ul>
Empiric therapy		Contact Consultant	1	another hospital or
Payara		Microbiologist.		long-term care
Severe				facility e.g. Nursing
				Home.
				If MRSA a potential
				concern contact
				Consultant
				Microbiologist
				Contact Russell
Surgical Site Infection				(stacey).
(SSI)				(5.0.55)
Necrotising fasciitis	Mixed polymicrobial	Piperacillin/tazobactam IV		Early wound
3	infection	4.5g QDS		debridement as
				emergency
		+		procedure is the
		Clindamycin 900mg IV		most appropriate
		QDS		treatment.
		,		Contact Consultan
		+/-		Microbiologist.
		Gentamicin 5mg/kg IV		If abdominal wall o
		once daily		groin involvement
				(likely organisms:
				anaerobes, gram
				negative bacilli),
	Group A Streptococcus	Benzylpenicillin 2.4g IV		add Gentamicin,
		QDS		
		+		adjust Gentamicin
				dosage according
		Clindamycin 900mg IV		to pre-dose levels.
		QDS		In penicillin allergy
				- Contact
				Consultant
				Microbiologist

MEG Demo (Staff App)	- MEG Demo - M	EG Staff app -	Last Updated:	June 20, 2025,	, 4:26 p.m., printed: Au	g. 13, 2025, 9:06 p.m.
page 1 of 3						

## **Respiratory Tract infections**

# **Antimicrobial Treatment of Respiratory Tract Infections**

Clinical Conditions (RTIs)	Likely Organisms	Antimicrobial and Dosage	Approx Duration of Therapy	Comments
Community acquired	Strep pneumoniae	See Community-acquired		
pneumonia	Haemophilus Influenzae	pneumonia treatment algorithm		
Empiric therapy Community acquired pneumonia Specific therapy	Atypical organisms Legionella sp.	Mild-Moderate Disease Ciprofloxacin 500mg-750mg PO BD OR Clarithromycin 500mg PO BD +/- Rifampicin 300-600mg PO BD Severe Disease Clarithromycin 500mg IV BD +		<ul> <li>Send sample for Legionella antigen test.</li> <li>Contact Consultant Microbiologist</li> </ul>
Healthcare-Associated Pneumonia (HAP) i.e.  In-patient >48 hours  Recent hospitalisation in last 3 months  Resident in long-term care facility or Nursing home  Dialysis patient  Empirical therapy  NB Change to appropriate organism-specific therapy if required once culture and sensitivity is obtained	Gram negative aerobes Staph aureus	Ciprofloxacin 400mg IV BD or Ciprofloxacin 500mg-750mg PO BD Piperacillin/tazobactam 4.5g IV TDS		<ol> <li>Contact Consultant         Microbiologist in allcases.</li> <li>In penillin-allergic patients         Contact Consultant         Microbiologist.</li> <li>Take sputum sample         where possible for culture.</li> <li>Take recent isolates from         infected sites into account.</li> <li>Note previous antibiotic         therapy.</li> <li>Early (&lt;48 hours)         post-operative pneumonia         can be classified as         community-acquired and         treated with         amoxicillin:clavulanic acid.</li> </ol>
Acute tonsillitis	Viral Strep pneumoniae	Antibiotics not indicated Amoxicillin 500mg PO TDS		In penicillin allergic patients:
Acute otitis media	Haemophilus Influenzae Morhaxella			Clarithromycin 500mg PO BD
Empirical therapy				In penicillin allergic patients:
Exacerbation of COPD  Empirical therapy	Haemophilus influenzae Moraxella catarrhalis	Amoxicillin:Clavulanic acid 500mg:125mg PO TDS		Clarithromycin 500mg PO BD
Pneumonia in immunocompromised adult	Streptococcus pneumoniae  Pneumocystis jirovecii (carinii	Sulfamethoxazole:trimethoprim 90-120mg/kg either IV or PO daily in 2 to 4 divided doses	n21 days	<ol> <li>Contact Consultant Microbiologist.</li> <li>Oral prophylactic therapy is necessary once course of treatment is complete.</li> </ol>
Cytomegalovirus	Ganciclovir 5mg/kg IV BD		<ol> <li>Contact Consultant Microbiologist.</li> <li>Oral prophylactic therapy necessary once course of treatment is complete.</li> </ol>	is

# **Urinary tract Infections**

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page 2 of 3					

### **Urinary Tract Infection**

Urinalysis and urine cultures should be interpreted along with clinical signs and symptoms of a UTI

Bacteriuria (>100,000 organisms per ml of a single organism) indicates infection **IF** clinical signs and symptoms of a UTI also present. Lower colony counts may be considered significant in particular situations e.g. patients already receiving antibiotics, catheterised patients etc.

Asymptomatic bacteriuria does not usually require antimicrobial treatment (exceptions include pregnancy, pre-urologic surgery amongst others).

Pyuria (>30 WCC/Microlitre) in the setting of a negative urine culture or in patients with asymptomatic bacteriuria usually requires no treatment

Bacteriuria in the absence of a pyuria is likely a contamination

### **Catheter-Associated Urinary Tract Infection**

The urine of patients with indwelling catheters frequently becomes colonised.

Asymptomatic bacteriuria in catheterised patients **DOES NOT USUALLY** require treatment and catheter should be removed if possible.

Symptomatic patients with a positive urine culture of >1000 organisms per ml should receive antimicrobial treatment for seven days if improving and remove or change catheter.

• Prophylactic antimicrobials should not be administered routinely to patients at the time of catheter placement, replacement, or removal to reduce catheter-associated UTI (IDSA Guidelines 2009)

#### **Antimicrobial Treatment of UTIs**

Clinical Conditions	Likely Organisms	Antimicrobial Dosage	Approx Duration of Therapy	Comments
Empirical therapy NB Discontinue	Eschencia coli Enterococcus sp. Proteus sp. Staphylococcus sp. Klebsiella sp.	Amoxicillin:etavulanic acid 625mg PO TDS or Nitrofurantoin 100mg PO QDS (If GFR >60ml/min)	3 to 5 days	Send urine sample for cultur and sensitivity prior to commencing antibiotics.     Intravenous therapy may be required in more severe infection.     Adjust therapy based on sensitivities once available.     Duration of therapy may be extended if patient has abnormality of the
Acute pyelonephritis Empirical therapy NB Discontinue empirical herapy and change to appropriate organism-specific herapy once culture and sensitivity is	Organism unknown	Amoxicillin:clavulanic acid 1.2g IV TDS + Gentamicin 5mg/kg IV once daily	14 days 5 to 7 days	genito-urinary tract.  1. Take blood cultures.  2. Longer treatment may be necessary in complicated pyelonephritis.  3. Adjust Gentamicin dosage according to pre-dose levels
obtained Sepsis post genito-urinary surgery	Gram negative bacilli	Gentamicin 5mg/kg IV once daily + Amoxicillin 1g IV TDS		Adjust Gentamicin dosage according to pre-dose levels. In Penicillin allergy use Gentamicin OR Ciprofloxacin monotherapy depending on sensitivities
	snish Association for Sexual Health and HIV (BASH) 2010 Guidelines	Most probably due to any sexually-transmitted organism:  Cettriaxone 250mg IM single-dose PLUS  Doxycycline 100mg BD PO for 10-14 days  If most probably due to Chlamydia or non-gonococcal organisms:  Doxycycline 100mg BD PO for 10-14 days  Or  Ciprofloxacin 500mg BD PO for 10-14 days  If most probably due to enteric organisms:		

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age 3 of 3	