MEG Demo (Staff App) - MEG Demo - MEG Staff app: Urinary tract Infections

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	Comments
			Therapy	
Uncomplicated lower	Eschericia coli	Amoxicillin:clavulanic	3 to 5 days	 Send urine sample for culture
UTI	Enterococcus sp.	acid 625mg PO TDS	3 to 5 days	and sensitivity prior to
Empirical therapy	Proteus sp.	or	3 to 5 days	commencing antibiotics.
NB Discontinue	Staphylococcus sp.	Di .		Intravenous therapy may be
	Klebsiella sp.	Nitrofurantoin 100mg PO		required in more severe
change to appropriate		QDS (If GFR >60ml/min)		infection.
organism-specific				Adjust therapy based on
therapy once culture				sensitivities once available.
and sensitivity is				Duration of therapy may be
obtained				extended if patient has
				abnormality of the
				genito-urinary tract.
Acute pyelonephritis		Amoxicillin:clavulanic	14 days	Take blood cultures.
Empirical therapy NB		acid 1.2g IV TDS	L	Longer treatment may be
Discontinue empirical			5 to 7 days	necessary in complicated
therapy and change to		once daily		pyelonephritis.
appropriate				Adjust Gentamicin dosage
organism-specific				according to pre-dose levels.
therapy once culture				
and sensitivity is				
obtained		Gentamicin 5mg/kg IV		
Sepsis post genito-urinary surgery		once daily		Adjust Gentamicin dosage according to pre-dose levels.
genito-unnary surgery		once dally		according to pre-dose levels.
		+		In Penicillin allergy use
				Gentamicin OR Ciprofloxacin
		Amoxicillin 1g IV TDS		monotherapy depending on
				sensitivities
Epididymo-orchitis	British Association	Most probably due to		
	for Sexual Health	any sexually-transmitted		
	and HIV (BASH)	organism:		
	2010 Guidelines	0.6.1		
		Ceftriaxone 250mg IM single-dose PLUS		
		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:		
		Ciprofloxacin 500mg BD		
		PO for 10-14 days		
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