UTI Upper urinary tract infections *most serious* Lower urinary tract infections Bladder , uretle prostate			
nrostate			
Gm- bacteria (most common): Gm+ bacteria : limited to urethra, unlike sexually transmitted	imited to urethra, unlike E.coli may be		
- E.coli - Proteus mirabilis - Klebsiella - Staphylococcus - N. gonorrhea			
- E.coli - Proteus mirabilis - Klebsiella - Staphylococcus - N. gonorrhea			
Sexually transmitted - E.coli - Proteus mirabilis - Klebsiella - Staphylococcus - Saprophyticus - Saprophyticus - N. gonorrhea	N. gonorrhea		
- Pseudomonas aeruginosa			
Co-trimoxazole Sulfamethoxazo Alone, each agent is Alone, each agent is Inhibition of Obhydropteroat e synthetase) to esynthetase) to esynthetase) to esynthetase) to esynthetase) to esynthetase) to esynthetase) to est	CONTRAINDICATIONS 1. Pregnancy		
(used in le (SMX) le synthetase) to inhibit Nucleic acid synthesis are protein (70) le synthetase) to inhibit Nucleic acid synthesis are protein (70) anemia (GGPD)	2. Nursing mother 3. Infants under 6 weeks		
recurrent UTI) Trimethoprim Trimethoprim Trimethoprim Inhibition of (Dihydrofolate) More lipid Megalop			
(TMP) (concentrate in the	5. Blood disorders		
Nitrofurantoin Prostatic fluid) Inhibits Concentrated in the urine Concentrat	C CONTRAINDICATIONS -G6PD deficiency		
(first line in treatment only in uncomplicated lower UTI) E.coli and Various enzymes Various enzymes Various enzymes Various enzymes Various enzymes (G6PD)	-Neonates		
Not use in Upper or systemic Gram + and damages dark orange-	-Pregnancy		
DNA.	CONTRAINDICATIONS		
letracycline Doxycycline synthesis by valent cations (discolour	io -Pregnancy		
(used in UTI's and chronic Prostatitis due to Mycoplasma & Chlamydia) (used in UTI's and chronic Prostatitis due to Mycoplasma & Chlamydia) (reversibly)	-Diedst		
Mycoplasma & Chlamydia)			
(used in UTI's and chronic Prostatitis due to Mycoplasma & Chlamydia) (used in UTI's and chronic Prostatitis due to Mycoplasma & Chlamydia) (reversibly)	(below 10 years)		
Aminoglycosides GENTAMICIN Inhibits More active Protein Protei	contraindications -pregnancy		
Used in Severe infections caused by gram - (irreversible) synthesis by binding medium	-with hearing		
(pseudomonas or enterobacter).	proplem		
Cephalosporins (used in Sever and complicated UTI Ceftazidime Cephalosporins (used in Sever and complicated UTI Cephazidime)			
Cephalosporins 3 rd generation : Given IV -hypesensitiv reaction			
(used in Sever and complicated UTI Ceftazidime Ceftazidime Ceftazidime Ceftazidime Ceftazidime	'beta		
and prostatitis) of cell	lactam'		
Quinolones Fluroquinolones Synthesis Inhibits DNA Damage	against		
LITIs caused by multidrug (ciprofloxacin) gyrase growing	gram-		
resistance organisms as pseudomonas. enzyme cartilage (arthropa	an		
And prostatitis.	i.		

Antibiotics					
Used for recurrent cases	Recommended during	Contraindicated during	Recommended	Contraindicated	
for prophylactics	pregnancy	pregnancy	In children	in children	
- TRM-SMX	- Amoxicillin	- Aminoglycosides	- TRM-SMX	- Tetracycline	
- Nitrofurantoin	- Cephalosporins	- Tetracycline	- Cephalosporins	- Quinolones	
		- Nitrofurantoin	- Penicillins		
		- Chloramphenicol	- Gentamicin 'with precaution'		
		- Metronidazole			

Done by : Afnan Almalki.