

Antimetabolites, Nucleic acid Synthesis Inhibitors Cheat Sheet by olkimmilo via cheatography.com/42456/cs/12781/

SULFONAMIDES		
MOA	Mammalian cells lack dihydropteroate synthase and require exogenous sources of folate. Inhibiting synthesis of folic acid (folate), a compound required by all cells to make DNA, RNA, and proteins	
PK	Absorbed from the stomach and small intestines, widely distributed to tissues and body fluids (CNS, CSF, placenta, fetus) Excreted unchanged into the urine. Eliminated by glomerular filtration and breast milk.	
AE	Crystalluria, hypersensitivity, hematopoietic disturbances (hemolytic anemia), kernicterus	
CONTRA	Pregnant women, children <2 mo old	

FLUOROQUINOLONES		
MOA	Inhibit one or both of the 2 prokaryotic type II topoisomerases	
PK	Well absorbed, widely distributed in body fluids and tissues Excreted really	
INDICATIONS	Resistant respiratory infections, anthrax, gonorrhea, UTI and bacterial diarrhea caused by shigella, salmonella, toxigenic E coli, and campylobacter	
AE	NVD, HA, dizziness, phototoxic, connective tissue problems	
BBW	Tendinitis, tendon rupture	
CONTRA	Avoid in pregos, nursing mothers, and children <18	
DDI	THEOPHYLLINE, WARFARIN, CYCLOSPORINE	
Concentration-dependent killing		

CONTRA	Pregnant women, children <2 mo old				
SULFONAMIDES					
ORAL, NONABSORB					
	SULFASALAZINE				
ORAL, ABSORBABLE					
SHORT	SULFACYTINE				
	SULFISOXAZOLE	Indications: UTI			
	FULFAMETHIZOLE				
INTERM	SULFADIAZINE	Indications: 1st line for acute			
		toxoplasmosis			
	SULFAMETHOXAZ OLE	Indications: UTI			
	SULFAPYRIDINE				
LONG	SULFADOXINE	Indication: 2nd line for malaria			
TOPICAL					
	SODIUM SULFACETAMIDE				
	MAFENIDE ACETATE				
	SILVER SULFADIAZINE				
Sulfadiazine and sulfadoxone are used in combo with pyrimethamine					

FLUOROQUINOLONES				
NALIDIXIC ACID				
NORFLOXACIN				
OFLOXACIN				
CIPROFLOXACIN	No longer recommended for gonococcal in the US Indications: chlamydial urethritis, cervicitis			
LEVOFLOXACIN	No longer recommended for gonococcal in the US Indications: chlamydial urethritis, cervicitis QD, long t1/2			
MOXIFLOXACIN	Only one not effective in UTI's QD, long t1/2 Contra: puts predisposed to arrhythmias or pts that are taking anti arrhythmic meds due to QT prolongation			

DHFR INHIBITORS				
TMP/SMX	Drug of choice for infections such as Pneumocystis jiroveci pneumonia, toxoplasmosis, nocardiosis, and occasionally other bacterial infections			
TRIMETHOPRIM	UTI			
PYRIMETHAMINE	Parasitic			
AE: megaloblastic anemia, leukopenia, granulocytopenia				

MOA	Metabolized to formaldehyde and ammonia in acidic pH. The formaldehyde is lethal to bacteria.
INDICATION	Urinary tract antiseptics/antimicrobials
SIDE EFFECTS	GI distress, may cause albuminuria, hematuria, and rashes at higher doses
CONTRA	Pts with renal insufficiency
CONTRA	rts with renai insumiciency



By **olkimmilo** cheatography.com/olkimmilo/ Published 11th September, 2017. Last updated 11th September, 2017. Page 1 of 1.

METHENAMINE

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