## Cheatography

# 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	
РК	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	
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

#### 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



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

Inhibit one or both of the 2 prokaryotic type II

Well absorbed, widely distributed in body fluids and

Resistant respiratory infections, anthrax, gonorrhea, UTI and bacterial diarrhea caused by shigella, salmonella,

METHENAMINE		
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	

### FLUOROQUINOLONES

topoisomerases

tissues Excreted really

MOA

ΡK

INDICATIONS