

Anti-fungals Cheat Sheet by sam219 via cheatography.com/201893/cs/44925/

Agansit cell wall Polyenes/macrocyclic lactone				
Nyastatin/Mycostatin	Amphotericin B			
No oral absorptiob/toxicity.	broadest spectrum of all antifungals.			
Uses: GIT candidiasis. DOC for vaginal or cutaneous candidiais.	Uses: DOC for deep fungal infection			
	SE/toxicity: Phlebitis, nephrotoxicity.			
MOA: integrate within cell wall ergosterols, causing leakage of small				

molecules.			
Have higher affinity to fungal ergosterols than mammalian sterols.			
Against fungal nucleus			
Out full dis	E fl /El		

Against fungal nucleus	
Griseofulvin	5-fluorocytosine (Flucy-tosine)
Natural. Oral intake since topically inactive.	Synthetic pyrimidine analogue.
MOA: stops mitosis/M-phase	MOA: get incorporated into RNA, thus ruining protein synthesis.
SAR: Has 2 stereocenters(CI and C-O-CH3)	Prodrug activated by fungal cytosine deaminase
-Cl can be replaced by fluorine only.	
 -Increased activity: if Methoxy becomes due to increased lipophilicity Decreas becomes NH2. 	
Uses: agansit mycelial fungi only; fungistatic for growing dermatophytes (ringworm,tinea)	Uses: systemic fungal and candida infections.

Affecting ergoster	ol biosynthesi	s		
Thiocarbamates	Allylamine deriv.		Azole deriv.	
MOA: inhibit squalene epoxidase.	MOA: inhibit squalene epoxidase.	Imidazole "1st gen."	Imidazoles "2nd gen."	Triazoles _
Tolnaftate	Terbin- afine, Lamisil	Clotri- mazole, Miconazole	Ketoconazole	1) Fluconazolo

Affecting ergosterol biosynthesis (cont)					
Uses: topical for dermat-ophytes, Tinea cure, for skin mycoses such as athletes foot.	Oral & topically active.	Broad-spe- ctrum with no problems topically but systemically may cause hepatotox- icity.	Improved systemic bioavail. by improving water solubility.	Use: for vaginal candidiasis.	
Not very effective for nail & scalp mycoses.	Uses: for ring worm and nail infections "onycho- mycose- s"	Miconazole is used for oral candid- iasis.	The structure includes a dioxolane ring (ketal structure) responsible for the improved water solubility.	only 2,4-di- fluro variants were active and non- toxic.	
		Ticoconazole		2) Itraconazole	
		x4 more potent than miconazole.		Synthetic dioxolane triazole	
		AB also to some G+ve bacteria (like metronida- zole).		Uses: oropha- ryngeal or vaginal candidiasis. Asperg- illosis candidiasis.	



By sam219 cheatography.com/sam219/

Not published yet. Last updated 14th January, 2025. Page 1 of 1. Sponsored by ApolloPad.com
Everyone has a novel in them. Finish
Yours!
https://apollopad.com