

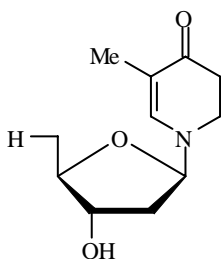
**PHA 4210 - Infectious Disease/Dermatology Module
Homework Assignment 3
Posted February 7, 2000**

From Dr. Kerns:

1. For each of the first line antituberculosis agents briefly state their mechanism of action.

From Dr. Gibbs:

2. a) Explain why the molecule shown below is not an active chain-terminating antiviral agent. Indicate (by drawing a "new and improved" analog) FOUR changes that you would make to the molecule to make it a better chain-terminating antiviral agent.



From Dr. McKinnon:

3. List two surrogate markers for monitoring patient progress on antiretroviral therapy.

Marker #1.
Marker #2.

4. Complete the following table:

Drug	Generic name/Brand Name	Usual Dose	Considerations for taking (e.g. w/food, empty stomach)
3TC			
d4T			
—	Ritonavir		take with food
—	Indinavir		
—	Nevirapine		
—	Nelfinavir		

From Dr. Akins:

5. List 3 pro and cons for using liposomal amphotericin B.

6. Is prophylactic therapy necessary in the treatment of Aspergillosis? If so, explain your answer and give appropriate doses.