Rifampin

Rifampin, also called rifampicin, is a bactericidal antibiotic commonly used in the treatment of active tuberculosis. Rifampin inhibits bacterial RNA synthesis by inhibiting RNA polymerase. Rifampin resistance can develop quickly due to alteration of the binding sites on RNA polymerase so monotherapy should not be used in treatment of infections. Instead, rifampin is commonly used in combination with other antibiotics. Besides mycobacterium TB, rifampin is also used in the treatment of haemophilus influenza, leprosy, and meningitis. Rifampin is a well known P450 inducer and can increase the rate of metabolism of other drugs that are cleared by the liver through the p450 system. Taking rifampin can cause bodily fluids like urine and tears to become orange red in color, which may be alarming but is completely benign.



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Tuberculosis (TB)
TB-TV
Rifampin, also called rifampicin, is a bactericidal antibiotic commonly used in the treatment of active tuberculosis. It is never used as monotherapy due to high resistance rates but is used with isoniazid, ethambutol, and pyrazinamide.

Blocks RNA Polymerization
RNA Rhino Police Polymer Blocked
The mechanism of action of rifampin is to block bacterial RNA polymerization.

Haemophilus influenzae Type B
Heme-man in Flute (B) Bee
Besides tuberculosis, rifampin can be used in to treat infection by Haemophilus influenza.

Leprosy
Leopard
Leprosy, also called Hansen's disease, is a mycobacterium. Therefore, rifampin can also be used in the treatment of leprosy. Rifampin is used in combination with dapsone and clofazimine for standard treatment of Hansen's disease.

Meningitis
Men-in-tights
Rifampin can be used in prophylactic therapy against meningococcal infection.

P450 inducer
Pea 450 Inducer-rocket
Rifampin is a well known P450 inducer and can increase the rate of metabolism of other drugs that are cleared by the liver through the p450 system.

Red-orange urine
Red-orange urine
Taking rifampin can cause bodily fluids like urine and tears to become orange red in color, which may be alarming but is completely benign.

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