



Partial List of Drugs that Cause Macrocytosis and Sometimes Megaloblastic Changes

Regularly Produce Changes

Cancer chemotherapy

Hydroxyurea

Methotrexate

6 Mercaptopurine

Azathioprine

Cytarabine

5-Fluorouracil

Cyclophosphamide

HIV therapy

Zidovudine (AZT) and other drugs of this class used to treat HIV infection

Infrequently Produce Changes

Pyrimethamine

Triamterene

Trimethoprim

Phenytoin

Phenobarbital

Primidone

Metformin and phenformin (reduce B₁₂ absorption)

Dapsone (via hemolysis)

Ribavirin (via hemolysis)

Methyldopa (via hemolysis)

Penicillin (via hemolysis) class

Table from *Physicians Information and Education Resource (PIER)*, Macrocytic Anemia module.