Metformin

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Metformin hydrochloride is administered orally.

50-60% of the prescribed dose will reach systemic circulation, or circulation of the blood throughout the body.

This drug is believed to improve the body’s ability to use insulin more effectively, and increase binding of insulin to its receptors. It suppresses the production of glucose, or blood sugar, produced in the liver. This drug helps tissue to absorb the insulin, and allows the glucose to move into the skeletal muscles and fat.

This drug is not metabolized.

This drug is eliminated through the urine.

Fortamet, Glucophage, Glucophage XR, Glumetza, Riomet

Antidiabetic, Biguanide

Metformin HCl is used in the treatment of type 2 diabetes mellitus as adjunct to diet and exercise.

The unlabeled uses of Metformin HCl include treatment of antipsychotic-induced weight gain, and polycystic ovary syndrome.

N, N-Dimethylbiguanide dinitrile with hydrochloride; 1,1-dimethylbiguanide with hydrochloride; N,N-dimethylglycine with hydrochloride;

N,N-dimethylguanidine with hydrochloride

Chemical Names [4]

Condensed Structural Formula [L. 1, 4, 4]

Expanded Structural Formula [4]