

Application Note: Rivaroxaban

Rivaroxaban, sold under the brand name Xarelto among others, is an anticoagulant medication (blood thinner) used to treat and prevent blood clots. Specifically it is used to treat deep vein thrombosis and pulmonary emboli and prevent blood clots in atrial fibrillation.

Rivaroxaban inhibits both free and bound Factor Xa in the prothrombinase complex. It is a selective direct factor Xa inhibitor with an onset of action of 2.5 to 4 hour.

Rivaroxaban was patented in 2007 and approved for medical use in the United States in 2011. It is on the World Health Organization's List of Essential Medicines. In 2019, it was the 91st most commonly prescribed medication in the United States, with more than 8 million prescriptions.

