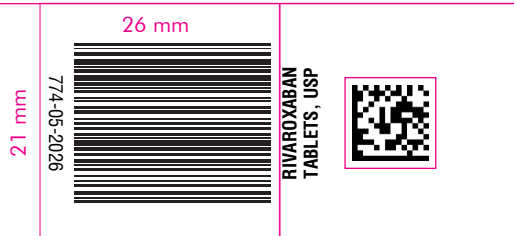


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HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all of the information needed to use RIVAROXABAN TABLETS safely and effectively. See full prescribing information for RIVAROXABAN TABLETS.

RIVAROXABAN tablets, for oral use
Initial U.S. Approval: 2011

WARNING: (A) PREMATURE DISCONTINUATION OF RIVAROXABAN TABLETS INCREASES THE RISK OF THROMBOTIC EVENTS, (B) SPINAL/EPIDURAL HEMATOMA
See full prescribing information for complete boxed warning.

(A) Premature discontinuation of Rivaroxaban Tablets increases the risk of thrombotic events. Premature discontinuation of any oral anticoagulant, including Rivaroxaban Tablets, increases the risk of thrombotic events. To reduce this risk, consider coverage with another anticoagulant if Rivaroxaban Tablets is discontinued for a reason other than pathological bleeding or completion of a course of therapy.

(B) Spinal/epidural hematoma
Epidural or spinal hematomas have occurred in patients treated with Rivaroxaban Tablets who are receiving neuraxial anesthesia or undergoing spinal puncture. These hematomas may result in long-term or permanent paralysis.

Monitor patients frequently for signs and symptoms of neurological impairment and if observed, treat urgently. Consider the benefits and risks before neuraxial intervention in patients who are or who need to be anticoagulated. (5.3)

RECENT MAJOR CHANGES

Warnings and Precautions (5.2) 03/2026

INDICATIONS AND USAGE

- Rivaroxaban Tablets is a factor Xa inhibitor indicated:
• to reduce the risk of major cardiovascular events in patients with coronary artery disease (CAD) (1.7)
• to reduce the risk of major thrombotic vascular events in patients with peripheral artery disease (PAD), including patients after recent lower extremity revascularization due to symptomatic PAD (1.8)

DOSAGE AND ADMINISTRATION

- CAD or PAD: 2.5 mg orally twice daily with or without food, in combination with aspirin (75 mg to 100 mg) once daily (2.1)

FULL PRESCRIBING INFORMATION: CONTENTS*

WARNING: (A) PREMATURE DISCONTINUATION OF RIVAROXABAN TABLETS INCREASES THE RISK OF THROMBOTIC EVENTS, (B) SPINAL/EPIDURAL HEMATOMA

1 INDICATIONS AND USAGE

- 1.7 Reduction of Risk of Major Cardiovascular Events in Patients with Coronary Artery Disease (CAD)
1.8 Reduction of Risk of Major Thrombotic Vascular Events in Patients with Peripheral Artery Disease (PAD), Including Patients after Lower Extremity Revascularization due to Symptomatic PAD

2 DOSAGE AND ADMINISTRATION

- 2.1 Recommended Dosage in Adults
2.2 Recommended Dosage in Pediatric Patients
2.3 Switching to and from Rivaroxaban Tablets
2.4 Discontinuation for Surgery and other Interventions
2.5 Missed Dose
2.6 Administration Options

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

- 5.1 Increased Risk of Thrombotic Events after Premature Discontinuation
5.2 Risk of Bleeding
5.3 Spinal/Epidural Anesthesia or Puncture
5.4 Use in Patients with Renal Impairment
5.5 Use in Patients with Hepatic Impairment
5.6 Use with P-gp and Strong CYP3A Inhibitors or Inducers
5.7 Risk of Pregnancy-Related Hemorrhage
5.8 Patients with Prosthetic Heart Valves
5.9 Acute PE in Hemodynamically Unstable Patients or Patients Who Require Thrombolysis or Pulmonary Embolectomy
5.10 Increased Risk of Thrombosis in Patients with Triple Positive Antithrombotic Syndrome

6 ADVERSE REACTIONS

- 6.1 Clinical Trials Experience
6.2 Postmarketing Experience

DOSAGE FORMS AND STRENGTHS

- Tablets: 2.5 mg (3)

CONTRAINDICATIONS

- Active pathological bleeding (4)
Severe hypersensitivity reaction to Rivaroxaban Tablets (4)

WARNINGS AND PRECAUTIONS

- Risk of bleeding: Rivaroxaban Tablets can cause serious and fatal bleeding (5.2)
Pregnancy-related hemorrhage: Use Rivaroxaban Tablets with caution in pregnant women due to the potential for obstetric hemorrhage and/or emergent delivery (5.7, 8.1)
Prosthetic heart valves: Rivaroxaban Tablets use not recommended (5.8)
Increased Risk of Thrombosis in Patients with Triple Positive Antithrombotic Syndrome: Rivaroxaban Tablets use not recommended (5.10)

ADVERSE REACTIONS

- The most common adverse reaction (>5%) in adult patients was bleeding (6.1)
The most common adverse reactions (>10%) in pediatric patients were bleeding, cough, vomiting, and gastroenteritis (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact ScieGen Pharmaceuticals, Inc. at (1-855-724-3436) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Avoid combined P-gp and strong CYP3A inhibitors and inducers (7.2, 7.3)
Anticoagulants: Avoid concomitant use (7.4)
Renal impairment: Avoid or adjust dose (8.6)
Hepatic impairment: Avoid use in Child-Pugh B and C hepatic impairment or hepatic disease associated with coagulopathy (8.7)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 5/2026

7 DRUG INTERACTIONS

- 7.1 General Inhibition and Induction Properties
7.2 Drugs that Inhibit Cytochrome P450 3A Enzymes and Drug Transport Systems
7.3 Drugs that Induce Cytochrome P450 3A Enzymes and Drug Transport Systems
7.4 Anticoagulants and NSAIDs/Aspirin

8 USE IN SPECIFIC POPULATIONS

- 8.1 Pregnancy
8.2 Lactation
8.3 Females and Males of Reproductive Potential
8.4 Pediatric Use
8.5 Geriatric Use
8.6 Renal Impairment
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- 12.1 Mechanism of Action
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13 NON-CLINICAL TOXICOLOGY

- 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

14 CLINICAL STUDIES

- 14.6 Reduction of Risk of Major Cardiovascular Events in Patients with CAD
14.7 Reduction of Risk of Major Thrombotic Vascular Events in Patients with PAD, Including Patients after Lower Extremity Revascularization due to Symptomatic PAD

16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

*Sections or subsections omitted from the full prescribing information are not listed.

2.5 Missed Dose

- Adults
• For patients receiving 2.5 mg twice daily; if a dose is missed, the patient should take a single 2.5 mg Rivaroxaban Tablets dose as recommended at the next scheduled time.

On the following day, the patient should continue with their regular regimen.

2.6 Administration Options

For adult patients who are unable to swallow whole tablets, Rivaroxaban Tablets (all strengths) may be crushed and mixed with applesauce immediately prior to use and administered orally. Administration with food is not required for the 2.5 mg tablets [see Clinical Pharmacology (12.3)].

Administration of Rivaroxaban tablets via nasogastric (NG) tube or gastric feeding tube: After confirming gastric placement of the tube, Rivaroxaban tablets (all strengths) may be crushed and suspended in 50 mL of water and administered via an NG tube or gastric feeding tube. Since rivaroxaban absorption is dependent on the site of drug release, avoid administration of Rivaroxaban tablets distal to the stomach which can result in reduced absorption and thereby, reduced drug exposure. Enteral feeding is not required following administration of the 2.5 mg tablets [see Clinical Pharmacology (12.3)].

Crushed Rivaroxaban tablets (all strengths) are stable in water and in applesauce for up to 4 hours. An in vitro compatibility study indicated that there is no adsorption of rivaroxaban from a water suspension of a crushed Rivaroxaban tablet to PVC or silicone nasogastric (NG) tubing.

3 DOSAGE FORMS AND STRENGTHS

- 2.5 mg tablets: Beige, round, film coated tablets debossed with '513' on one side and plain on the other side.

4 CONTRAINDICATIONS

- Rivaroxaban tablets are contraindicated in patients with:
• active pathological bleeding [see Warnings and Precautions (5.2)]
• severe hypersensitivity reaction to Rivaroxaban Tablets (e.g., anaphylactic reactions) [see Adverse Reactions (6.2)]

5 WARNINGS AND PRECAUTIONS

5.1 Increased Risk of Thrombotic Events after Premature Discontinuation

Premature discontinuation of any oral anticoagulant, including Rivaroxaban Tablets, in the absence of adequate alternative anticoagulation increases the risk of thrombotic events. An increased rate of stroke was observed during the transition from Rivaroxaban Tablets to warfarin in clinical trials in atrial fibrillation patients. If Rivaroxaban Tablets are discontinued for a reason other than pathological bleeding or completion of a course of therapy, consider coverage with another anticoagulant [see Dosage and Administration (2.3, 2.4) and Clinical Studies (14.1)].

5.2 Risk of Bleeding

Rivaroxaban Tablets increases the risk of bleeding, including in any organ, and can cause serious or fatal bleeding. In deciding whether to prescribe Rivaroxaban Tablets to patients at increased risk of bleeding, the risk of thrombotic events should be weighed against the risk of bleeding.

Promptly evaluate any signs or symptoms of blood loss and consider the need for blood replacement. Discontinue Rivaroxaban Tablets in patients with active pathological hemorrhage. The terminal elimination half-life of rivaroxaban is 5 to 9 hours in healthy subjects aged 20 years to 45 years.

Concomitant use of other drugs that impair hemostasis increases the risk of bleeding. These include aspirin, P2Y12 platelet inhibitors, dual antiplatelet therapy, other antithrombotic agents, fibrinolytic therapy, non-steroidal anti-inflammatory drugs (NSAIDs) [see Drug Interactions (7.4)], selective serotonin reuptake inhibitors, and serotonin norepinephrine reuptake inhibitors.

Concomitant use of drugs that are known combined P-gp and strong CYP3A inhibitors increases rivaroxaban exposure and may increase bleeding risk [see Drug Interactions (7.2)].

Reversal of Anticoagulant Effect

A specific agent to reverse the anti-factor Xa activity of rivaroxaban is not available. Because of high plasma protein binding, rivaroxaban is not dialyzable [see Clinical Pharmacology (12.3)]. Protamine sulfate and vitamin K are not expected to affect the anticoagulant activity of rivaroxaban. Use of procoagulant reversal agents, such as prothrombin complex concentrate (PCC), activated prothrombin complex concentrate or recombinant factor VIIa, may be considered but has not been evaluated in clinical efficacy and safety studies. Monitoring for the anticoagulation effect of rivaroxaban using a clotting test (PT, INR or aPTT) or anti-factor Xa (FXa) activity is not recommended.

5.3 Spinal/Epidural Anesthesia or Puncture

When neuraxial anesthesia (spinal/epidural anesthesia) or spinal puncture is employed, patients treated with anticoagulant agents for prevention of thromboembolic complications are at risk of developing an epidural or spinal hematoma which can result in long-term or permanent paralysis [see Boxed Warning].

To reduce the potential risk of bleeding associated with the concurrent use of Rivaroxaban Tablets and epidural or spinal anesthesia/analgesia or spinal puncture, consider the pharmacokinetic profile of Rivaroxaban Tablets [see Clinical Pharmacology (12.3)]. Placement or removal of an epidural catheter or lumbar puncture is best performed when the anticoagulant effect of Rivaroxaban Tablets is low; however, the exact timing to reach a sufficiently low anticoagulant effect in each patient is not known.

An indwelling epidural or intrathecal catheter should not be removed before at least 2 half-lives have elapsed (i.e., 18 hours in young patients aged 20 years to 45 years and 26 hours in elderly patients aged 60 years to 76 years), after the last administration of Rivaroxaban Tablets [see Clinical Pharmacology (12.3)]. The next Rivaroxaban Tablets dose should not be administered earlier than 6 hours after the removal of the catheter. If traumatic puncture occurs, delay the administration of Rivaroxaban Tablets for 24 hours.

Should the physician decide to administer anticoagulation in the context of epidural or spinal anesthesia/analgesia or lumbar puncture, monitor frequently to detect any signs or symptoms of neurological impairment, such as midline back pain, sensory and motor deficits (numbness, tingling, or weakness in lower limbs), bowel and/or bladder dysfunction. Instruct patients to immediately report if they experience any of the above signs or symptoms. If signs or symptoms of spinal hematoma are suspected, initiate urgent diagnosis and treatment including consideration for spinal cord decompression even though such treatment may not prevent or reverse neurological sequelae.

5.4 Use in Patients with Renal Impairment

Discontinue Rivaroxaban Tablets in patients who develop acute renal failure while on treatment [see Use in Specific Populations (8.6)].

5.5 Use in Patients with Hepatic Impairment

No clinical data are available for adult patients with severe hepatic impairment.
Avoid use of Rivaroxaban Tablets in patients with moderate (Child-Pugh B) and severe (Child-Pugh C) hepatic impairment or with any hepatic disease associated with coagulopathy since drug exposure and bleeding risk may be increased [see Use in Specific Populations (8.7)].

5.6 Use with P-gp and Strong CYP3A Inhibitors or Inducers

Avoid concomitant use of Rivaroxaban Tablets with known combined P-gp and strong CYP3A inhibitors [see Drug Interactions (7.2)].

Avoid concomitant use of Rivaroxaban Tablets with drugs that are known combined P-gp and strong CYP3A inducers [see Drug Interactions (7.3)].

5.7 Risk of Pregnancy-Related Hemorrhage

In pregnant women, Rivaroxaban Tablets should be used only if the potential benefit justifies the potential risk to the mother and fetus. Rivaroxaban Tablets dosing in pregnancy has not been studied. The anticoagulant effect of Rivaroxaban Tablets cannot be monitored with standard laboratory testing. Promptly evaluate any signs or symptoms suggesting blood loss (e.g., a drop in hemoglobin and/or hematocrit, hypotension, or fetal distress) [see Warnings and Precautions (5.2) and Use in Specific Populations (8.1)].

5.8 Patients with Prosthetic Heart Valves

On the basis of the GALILEO study, use of Rivaroxaban Tablets is not recommended in patients who have had transcatheter aortic valve replacement (TAVR) because patients randomized to Rivaroxaban Tablets experienced higher rates of death and bleeding compared to those randomized to an anti-platelet regimen. The safety and efficacy of Rivaroxaban Tablets have not been studied in patients with other prosthetic heart valves or other valve procedures. Use of Rivaroxaban Tablets is not recommended in patients with prosthetic heart valves.

5.9 Acute PE in Hemodynamically Unstable Patients or Patients Who Require Thrombolysis or Pulmonary Embolectomy

Initiation of Rivaroxaban Tablets is not recommended acutely as an alternative to unfractionated heparin in patients with pulmonary embolism who present with hemodynamic instability or who may receive thrombolysis or pulmonary embolectomy.

5.10 Increased Risk of Thrombosis in Patients with Triple Positive Antithrombotic Syndrome

Direct-acting oral anticoagulants (DOACs), including Rivaroxaban Tablets, are not recommended for use in patients with triple-positive antithrombotic syndrome (TPS). For patients with TPS (especially those who are triple positive [positive for lupus anticoagulant, anticardiolipin, and anti-beta 2-glycoprotein I antibodies]), treatment with DOACs has been associated with increased rates of recurrent thrombotic events compared with vitamin K antagonist therapy.

6 ADVERSE REACTIONS

The following clinically significant adverse reactions are also discussed in other sections of the labeling:

- Increased Risk of Stroke After Discontinuation in Nonvalvular Atrial Fibrillation [see Boxed Warning and Warnings and Precautions (5.1)]
Bleeding Risk [see Warnings and Precautions (5.2, 5.4, 5.5, 5.6, 5.7)]
Spinal/Epidural Hematoma [see Boxed Warning and Warnings and Precautions (5.3)]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

During clinical development for the approved indications, 34,947 adult patients were exposed to Rivaroxaban Tablets.

Hemorrhage

The most common adverse reactions with Rivaroxaban Tablets were bleeding complications [see Warnings and Precautions (5.2)].

Reduction of Risk of Major Cardiovascular Events in Patients with CAD

In the COMPASS trial overall, the most frequent adverse reactions associated with permanent drug discontinuation were bleeding events, with incidence rates of 2.7% for Rivaroxaban Tablets 2.5 mg twice daily vs. 1.2% for placebo on background therapy for all patients with aspirin 100 mg once daily. The incidences of important bleeding events in the CAD and PAD populations in COMPASS were similar.

Table 10 shows the number of patients experiencing various types of major bleeding events in the COMPASS trial.

Table 10: Major Bleeding Events in COMPASS - On Treatment Plus 2 Days*

Table with 4 columns: Parameter, Rivaroxaban N=9134 n (%/year), Placebo N=9107 n (%/year), Rivaroxaban vs. Placebo HR (95 % CI). Rows include Fatal bleeding event, Intracranial hemorrhage (ICH), Major bleeding events, Bleeding into the surgical site requiring reoperation, etc.

* Major bleeding events within each subcategory were counted once per patient, but patients may have contributed events to multiple subcategories. These events occurred during treatment or within 2 days of stopping treatment in the safety analysis set in COMPASS patients.

† Defined as i) fatal bleeding or ii) symptomatic bleeding in a critical area or organ, such as intraarterial, intramuscular with compartment syndrome, intraspinal, intracranial, intraocular, respiratory, pericardial, liver, pancreas, retroperitoneal, adrenal gland or kidney; or iii) bleeding into the surgical site requiring reoperation, or iv) bleeding leading to hospitalization.

CI: confidence interval; HR: hazard ratio; ISTH: International Society on Thrombosis and Hemostasis

Reduction of Risk of Major Thrombotic Vascular Events in Patients with Peripheral Artery Disease (PAD), Including Patients after Lower Extremity Revascularization due to Symptomatic PAD

The incidence of premature permanent discontinuation due to bleeding events for Rivaroxaban Tablets was 2.5 mg twice daily vs. placebo on background therapy with aspirin 100 mg once daily in VOYAGER 4 was 4.1% vs. 1.6% and in COMPASS PAD was 2.7% vs. 1.3%, respectively.

Table 11 shows the number of patients experiencing various types of TIMI (Thrombolysis in Myocardial Infarction) major bleeding events in the VOYAGER trial. The most common site of bleeding was gastrointestinal.

Table 11: Major Bleeding Events* in VOYAGER- On Treatment Plus 2 Days

Table with 4 columns: Parameter, Rivaroxaban N=3256, Placebo N=3248, Rivaroxaban vs. Placebo HR (95 % CI). Rows include TIMI Major Bleeding (CABG/non-CABG), Fatal bleeding, Intracranial bleeding, Clinically overt signs of hemorrhage associated with a drop in hemoglobin, etc.

CABG: Coronary artery bypass graft; CI: confidence interval; HR: hazard ratio; TIMI: Thrombolysis in Myocardial Infarction Bleeding Criteria

* Major bleeding events within each subcategory were counted once per patient, but patients may have contributed events to multiple subcategories.

† Treatment schedule: Rivaroxaban Tablets 2.5 mg twice daily or placebo. All patients received background therapy with aspirin 100 mg once daily.

Other Adverse Reactions

Non-hemorrhagic adverse reactions reported in ≥1% of Rivaroxaban-treated patients in the EINSTEIN DVT and EINSTEIN PE studies are shown in Table 12.

Table 12: Other Adverse Reactions* Reported by ≥1% of Rivaroxaban-Treated Patients in EINSTEIN DVT and EINSTEIN PE Studies

Table with 3 columns: Body System Adverse Reaction, Rivaroxaban Tablets 20 mg N=1718 n (%), Enoxaparin/VKA N=1711 n (%). Rows include Abdominal pain, Fatigue, Musculoskeletal and connective tissue disorders, Nervous system disorders, Psychiatric disorders, Anxiety, Depression, Insomnia, etc.

* Adverse reaction with Relative Risk >1.5 for Rivaroxaban Tablets versus comparator
Non-hemorrhagic adverse reactions reported in ≥1% of Rivaroxaban-treated patients in RECORD 1-3 studies are shown in Table 13.

Table 13: Other Adverse Drug Reactions* Reported by ≥1% of Rivaroxaban-Treated Patients in RECORD 1-3 Studies

Table with 3 columns: Body System Adverse Reaction, Rivaroxaban Tablets 10 mg N=4487 n (%), Enoxaparin N=4524 n (%). Rows include Wound secretion, Musculoskeletal and connective tissue disorders, Nervous system disorders, Skin and subcutaneous tissue disorders, etc.

* Adverse reaction occurring any time following the first dose of double-blind medication, which may have been prior to administration of active drug, until two days after the last dose of double-blind study medication

† Includes the placebo-controlled period of RECORD 2, enoxaparin dosing was 40 mg once daily (RECORD 1 to 3)

Non-bleeding adverse reactions reported in ≥5% of Rivaroxaban-treated patients are shown in Table 17.

Table 17: Other Adverse Reactions* Reported by ≥5% of Rivaroxaban-Treated Patients in UNIVERSE Study (Part B)

Table with 3 columns: Adverse Reaction, Rivaroxaban N=64 n (%), Aspirin N=34 n (%). Rows include Cough, Vomiting, Gastroenteritis, Rash, etc.

* Adverse reaction with Relative Risk >1.5 for Rivaroxaban versus aspirin.

† The following terms were combined:

Gastroenteritis: gastroenteritis, gastroenteritis viral
Rash: rash, rash maculo-papular, viral rash

6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of Rivaroxaban Tablets. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Blood and lymphatic system disorders: agranulocytosis, thrombocytopenia
Hepatobiliary disorders: jaundice, cholestasis, hepatitis (including hepatocellular injury)
Immune system disorders: hypersensitivity, anaphylactic reaction, anaphylactic shock, angioedema
Nervous system disorders: hemiparesis
Renal disorders: Anticoagulant-related nephropathy

Respiratory, thoracic and mediastinal disorders: Eosinophilic pneumonia

Skin and subcutaneous tissue disorders: Stevens-Johnson syndrome, drug reaction with eosinophilia and systemic symptoms (DRESS)

Injury, poisoning and procedural complications: Atraumatic splenic rupture

7 DRUG INTERACTIONS

7.1 General Inhibition and Induction Properties

Rivaroxaban is a substrate of CYP3A4/5, CYP2J2, and the P-gp and ATP-binding cassette G2 (ABCG2) transporters, the latter also known as breast cancer resistance protein (BCRP). Combined P-gp and strong CYP3A inducers increase exposure to rivaroxaban and may increase the risk of bleeding. Combined P-gp and strong CYP3A inhibitors decrease exposure to rivaroxaban and may increase the risk of thromboembolic events.

7.2 Drugs that Inhibit Cytochrome P450 3A Enzymes and Drug Transport Systems

Interaction with Combined P-gp and Strong CYP3A Inhibitors
Avoid concomitant administration of Rivaroxaban Tablets with known combined P-gp and strong CYP3A inhibitors (e.g., ketoconazole and ritonavir) [see Warnings and Precautions (5.6) and Clinical Pharmacology (12.3)].

Although clarithromycin is a combined P-gp and strong CYP3A inhibitor, pharmacokinetic data suggests that no precautions are necessary with concomitant administration with Rivaroxaban Tablets as the change in exposure is unlikely to affect the bleeding risk [see Clinical Pharmacology (12.3)].

Interaction with Combined P-gp and Moderate CYP3A Inhibitors in Patients with Renal Impairment
Rivaroxaban Tablets should not be used in patients with CrCl 15 to <80 mL/min who are receiving concomitant combined P-gp and moderate CYP3A inhibitors (e.g., erythromycin) unless the potential benefit justifies the potential risk [see Warnings and Precautions (5.4) and Clinical Pharmacology (12.3)].

7.3 Drugs that Induce Cytochrome P450 3A Enzymes and Drug Transport Systems

Avoid concomitant use of Rivaroxaban Tablets with drugs that are combined P-gp and strong CYP3A inducers (e.g., carbamazepine, phenytoin, rifampin, St. John's wort) [see Warnings and Precautions (5.6) and Clinical Pharmacology (12.3)].

7.4 Anticoagulants and NSAIDs/Aspirin

Concomitant administration of enoxaparin, warfarin, aspirin, clopidogrel and chronic NSAID use may increase the risk of bleeding [see Clinical Pharmacology (12.3)].

Avoid concurrent use of Rivaroxaban Tablets with other anticoagulants due to increased bleeding risk unless benefit outweighs risk. Promptly evaluate any signs or symptoms of blood loss if patients are treated concomitantly with aspirin, other platelet aggregation inhibitors, or NSAIDs [see Warnings and Precautions (5.2)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

The limited available data on Rivaroxaban Tablets in pregnant women are insufficient to inform a drug-associated risk of adverse developmental outcomes. Use Rivaroxaban Tablets with caution in pregnant patients because of the potential for pregnancy related hemorrhage and/or emergent delivery. The anticoagulant effect of Rivaroxaban Tablets cannot be reliably monitored with standard laboratory testing. Consider the benefits and risks of Rivaroxaban Tablets for the mother and possible risks to the fetus when prescribing Rivaroxaban Tablets to a pregnant woman [see Warnings and Precautions (5.2, 5.7)].

Adverse outcomes in pregnancy occur regardless of the health of the mother or the use of medications. The estimated background risk of major birth defects and miscarriage for the indicated populations is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 % to 4% and 15 % to 20%, respectively.

Clinical Considerations

Disease-Associated Maternal and/or Embryo/Fetal Risk

Pregnancy is a risk factor for venous thromboembolism and that risk is increased in women with inherited or acquired thrombophilias. Pregnant women with thromboembolic disease have an increased risk of maternal complications including pre-eclampsia. Maternal thromboembolic disease increases the risk for intrauterine growth restriction, placental abruption and early and late pregnancy loss.

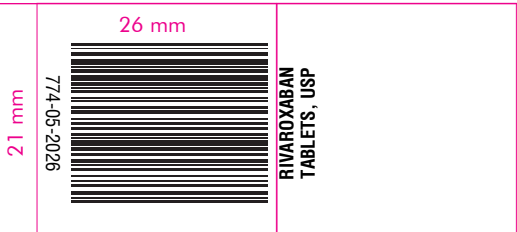
Fetal/Neonatal Adverse Reactions

Based on the pharmacologic activity of Factor Xa inhibitors and the potential to cross the placenta, bleeding may occur at any site in the fetus and/or neonate.

Labor or Delivery

All patients receiving anticoagulants, including pregnant women, are at risk for bleeding and this risk may be increased during labor or delivery [see Warnings and Precautions (5.7)]. The risk of bleeding should be balanced with the risk of thrombotic events when considering the use of Rivaroxaban Tablets in this setting.

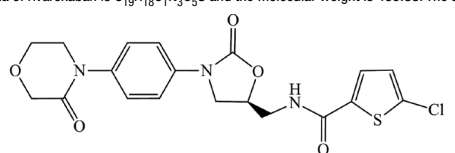
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8.6 Renal Impairment
In pharmacokinetic studies, compared to healthy adult subjects with normal creatinine clearance, rivaroxaban exposure increased by approximately 44% to 64% in adult subjects with renal impairment.

8.7 Hepatic Impairment
In a pharmacokinetic study, compared to healthy adult subjects with normal liver function, AUC increases of 127% were observed in adult subjects with moderate hepatic impairment (Child-Pugh B).

11 DESCRIPTION
Rivaroxaban, a factor Xa (FXa) inhibitor, is the active ingredient in Rivaroxaban Tablets, USP with the chemical name 5-Chloro-N-[(5S)-2-oxo-3-[4-(3-oxomorpholin-4-yl)phenyl]-1,3-oxazolidin-5-yl]methyl] thiophene-2-carboxamide.



Rivaroxaban is a pure (S)-enantiomer. It is an odorless, non-hygroscopic, white to off-white powder. Freely soluble in dimethyl sulphoxide, dimethyl formamide, slightly soluble in Dichloromethane.

12 CLINICAL PHARMACOLOGY
12.1 Mechanism of Action
Rivaroxaban is a selective inhibitor of FXa. It does not require a cofactor (such as Anti-thrombin III) for activity.

12.2 Pharmacodynamics
Rivaroxaban produces dose-dependent inhibition of FXa activity. Clotting tests, such as prothrombin time (PT), activated partial thromboplastin time (aPTT) and HepTest, are also prolonged dose-dependently.

12.3 Pharmacokinetics
Absorption
The absolute bioavailability of rivaroxaban is dose-dependent. For the 2.5 mg and 10 mg dose, it is estimated to be 80% to 100% and is not affected by food.

12.4 Distribution
Rivaroxaban is not metabolized in humans. It is excreted in urine and feces. Unchanged rivaroxaban was the predominant moiety in plasma with no major or active circulating metabolites.

12.5 Elimination
The terminal elimination half-life of rivaroxaban is 5 hours to 9 hours in healthy subjects aged 20 years to 45 years.

12.6 Safety
The most common adverse events in rivaroxaban-treated patients were bleeding events, including major and clinically significant bleeding events.

12.7 Contraindications
Rivaroxaban is contraindicated in patients with active major bleeding, severe hepatic impairment, or severe renal impairment.

12.8 Warnings and Precautions
Bleeding
Rivaroxaban increases the risk of bleeding. Patients should be monitored for signs and symptoms of bleeding.

12.9 Interactions
Rivaroxaban may interact with other drugs, including antiplatelet agents, anticoagulants, and anti-infectives.

12.10 Pregnancy and Lactation
Rivaroxaban is not recommended for use during pregnancy or lactation.

12.11 Pediatric Use
Rivaroxaban is not recommended for use in pediatric patients.

12.12 Geriatric Use
Rivaroxaban is not recommended for use in geriatric patients.

12.13 Laboratory Tests
Rivaroxaban may affect the results of certain laboratory tests, including prothrombin time (PT) and activated partial thromboplastin time (aPTT).

12.14 Patient Counseling
Patients should be informed of the risks and benefits of rivaroxaban and advised to take the medication as directed.

12.15 How Supplied/Storage and Handling
Rivaroxaban Tablets, USP, 2.5 mg are available in the packages listed below.

12.16 How Supplied/Storage and Handling
Rivaroxaban Tablets, USP, 2.5 mg are available in the packages listed below.

12.17 How Supplied/Storage and Handling
Rivaroxaban Tablets, USP, 2.5 mg are available in the packages listed below.

12.18 How Supplied/Storage and Handling
Rivaroxaban Tablets, USP, 2.5 mg are available in the packages listed below.

12.19 How Supplied/Storage and Handling
Rivaroxaban Tablets, USP, 2.5 mg are available in the packages listed below.

12.20 How Supplied/Storage and Handling
Rivaroxaban Tablets, USP, 2.5 mg are available in the packages listed below.

Gender
Gender did not influence the pharmacokinetics or pharmacodynamics of Rivaroxaban Tablets.

Race
Healthy Japanese subjects were found to have 20% to 40% on average higher exposures compared to other ethnicities including Chinese.

Elderly
The terminal elimination half-life is 11 hours to 13 hours in the elderly subjects aged 60 years to 76 years [see Use in Specific Populations (8.5)].

Renal Impairment
The safety and pharmacokinetics of single-dose Rivaroxaban Tablets (10 mg) were evaluated in a study in healthy subjects [CrCl >=80 mL/min (n=8)] and in subjects with varying degrees of renal impairment [see Figure 2].

Hepatic Impairment
The safety and pharmacokinetics of single-dose Rivaroxaban Tablets (10 mg) were evaluated in a study in healthy adult subjects (n=16) and adult subjects with varying degrees of hepatic impairment [see Figure 2].

Drug Interactions
In vitro studies indicate that rivaroxaban neither inhibits the major cytochrome P450 enzymes CYP1A2, 2C8, 2C9, 2C19, 2D6, 2J2, and 3A nor induces CYP1A2, 2B6, 2C19, or 3A.

Figure 3: Effect of Coadministered Drugs on the Pharmacokinetics of Rivaroxaban in Adults
This figure shows the effect of various coadministered drugs on the pharmacokinetics of rivaroxaban, including combined P-gp and strong CYP3A inhibitors, moderate CYP3A inhibitors, and other drugs.

Anticoagulants
In a drug interaction study, single doses of enoxaparin (40 mg subcutaneous) and Rivaroxaban Tablets (10 mg) given concomitantly resulted in an additive effect on anti-factor Xa activity.

NSAIDs/Aspirin
In ROCKET AF, concomitant aspirin use (almost exclusively at a dose of 100 mg or less) during the double-blind phase was identified as an independent risk factor for major bleeding.

Clopidogrel
In two drug interaction studies, clopidogrel (300 mg loading dose followed by 75 mg daily maintenance dose) and Rivaroxaban Tablets (15 mg single dose) were administered in healthy subjects.

Drug-Disease Interactions with Drugs that Inhibit Cytochrome P450 3A Enzymes and Drug Transport Systems
In a pharmacokinetic trial, Rivaroxaban Tablets was administered as a single dose in subjects with mild (CrCl = 50 mL/min to 79 mL/min) or moderate renal impairment (CrCl = 30 mL/min to 49 mL/min) receiving multiple doses of enoxaparin (a combined P-gp and moderate CYP3A inhibitor).

13 NON-CLINICAL TOXICOLOGY
13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
Rivaroxaban was not carcinogenic when administered by oral gavage to mice or rats for up to 2 years.

13.2 Reproductive Toxicology
Rivaroxaban was not mutagenic in bacteria (Ames-Test) or clastogenic in V79 Chinese hamster lung cells in vitro or in the mouse micronucleus test in vivo.

13.3 Fertility
Rivaroxaban was not found to affect fertility in male or female rats at the highest dose tested (60 mg/kg/day) over 1- and 2-generations, respectively.

13.4 Reproductive Toxicology
Rivaroxaban was not found to affect fertility in male or female rats at the highest dose tested (60 mg/kg/day) over 2- and 4-generations, respectively.

13.5 Reproductive Toxicology
Rivaroxaban was not found to affect fertility in male or female rats at the highest dose tested (60 mg/kg/day) over 2- and 4-generations, respectively.

13.6 Reproductive Toxicology
Rivaroxaban was not found to affect fertility in male or female rats at the highest dose tested (60 mg/kg/day) over 2- and 4-generations, respectively.

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13.9 Reproductive Toxicology
Rivaroxaban was not found to affect fertility in male or female rats at the highest dose tested (60 mg/kg/day) over 2- and 4-generations, respectively.

13.10 Reproductive Toxicology
Rivaroxaban was not found to affect fertility in male or female rats at the highest dose tested (60 mg/kg/day) over 2- and 4-generations, respectively.

13.11 Reproductive Toxicology
Rivaroxaban was not found to affect fertility in male or female rats at the highest dose tested (60 mg/kg/day) over 2- and 4-generations, respectively.

13.12 Reproductive Toxicology
Rivaroxaban was not found to affect fertility in male or female rats at the highest dose tested (60 mg/kg/day) over 2- and 4-generations, respectively.

13.13 Reproductive Toxicology
Rivaroxaban was not found to affect fertility in male or female rats at the highest dose tested (60 mg/kg/day) over 2- and 4-generations, respectively.

13.14 Reproductive Toxicology
Rivaroxaban was not found to affect fertility in male or female rats at the highest dose tested (60 mg/kg/day) over 2- and 4-generations, respectively.

13.15 Reproductive Toxicology
Rivaroxaban was not found to affect fertility in male or female rats at the highest dose tested (60 mg/kg/day) over 2- and 4-generations, respectively.

13.16 Reproductive Toxicology
Rivaroxaban was not found to affect fertility in male or female rats at the highest dose tested (60 mg/kg/day) over 2- and 4-generations, respectively.

13.17 Reproductive Toxicology
Rivaroxaban was not found to affect fertility in male or female rats at the highest dose tested (60 mg/kg/day) over 2- and 4-generations, respectively.

13.18 Reproductive Toxicology
Rivaroxaban was not found to affect fertility in male or female rats at the highest dose tested (60 mg/kg/day) over 2- and 4-generations, respectively.

13.19 Reproductive Toxicology
Rivaroxaban was not found to affect fertility in male or female rats at the highest dose tested (60 mg/kg/day) over 2- and 4-generations, respectively.

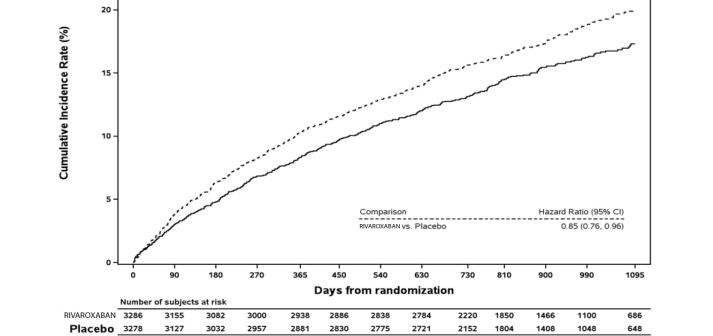
Table 26: Efficacy results from COMPASS CAD Population

Table with 5 columns: Event, RIVAROXABAN (N=8313), Placebo (N=8261), Hazard Ratio (95% CI) ‡. Rows include Stroke, MI or CV death, Stroke, MI, CV death, Coronary heart disease death, Ischemic stroke, Acute limb ischemia, CV death, MI, ischemic stroke, Acute limb ischemia, All-cause mortality.

* intention to treat analysis set, primary analyses.
† treatment schedule: Rivaroxaban Tablets 2.5 mg twice daily vs placebo. All patients received aspirin 100 mg once daily as background therapy.

‡ Rivaroxaban vs. placebo.
§ Coronary heart disease death: death due to acute MI, sudden cardiac death, or CV procedure.
¶ CV death includes CHD death, or death due to other CV causes or unknown death.

Figure 10: Time to First Occurrence of Primary Efficacy Outcome (Stroke, Myocardial Infarction, Cardiovascular Death) in the COMPASS CAD Population
This Kaplan-Meier plot shows cumulative incidence rate (%) over 1095 days for Rivaroxaban and Placebo groups.



*All patients received aspirin 100 mg once daily as background therapy.
CI: confidence interval

14.7 Reduction of Risk of Major Thrombotic Vascular Events in Patients with PAD, Including Patients after Lower Extremity Revascularization due to Symptomatic PAD

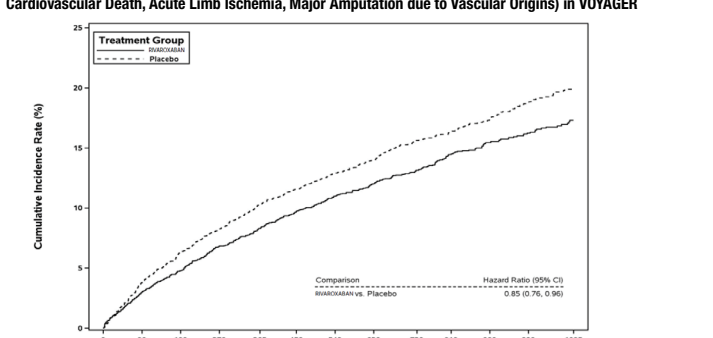
The efficacy and safety of Rivaroxaban Tablets 2.5 mg orally twice daily versus placebo on a background of aspirin 100 mg once daily in patients with PAD were evaluated in the COMPASS study (n=4996) and will be referred to as the COMPASS PAD population [see Clinical Studies (14.6)].

The efficacy and safety of Rivaroxaban Tablets were also evaluated for the reduction in the risk of the composite endpoint of myocardial infarction, ischemic stroke, cardiovascular death, acute limb ischemia (ALI), and major amputation of a vascular etiology in patients undergoing a lower extremity infrapopliteal revascularization procedure due to symptomatic peripheral artery disease (PAD) in the double-blind, placebo-controlled Vascular Outcomes Study of ASA along with rivaroxaban in Endovascular or surgical limb Revascularization for peripheral artery disease (PAD) trial (VOYAGER) [NCT02504216].

The mean age was 67 years and 20% of the subject population was >75 years. Of the included patients, 35% had surgical revascularization, 47% had endovascular revascularization with clopidogrel, and 18% endovascular revascularization without clopidogrel. The median duration of follow-up was 30.8 months.

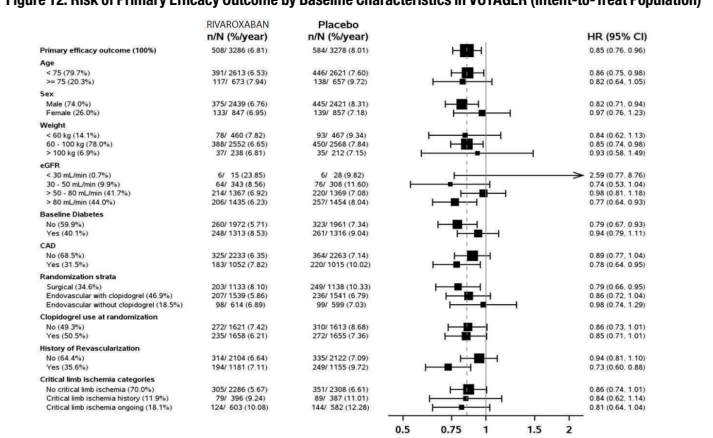
Rivaroxaban Tablets 2.5 mg twice daily was superior to placebo in reducing the rate of the primary composite outcome of myocardial infarction, ischemic stroke, cardiovascular death, acute limb ischemia (ALI), and major amputation of a vascular etiology. The primary efficacy outcome and its components are provided in Table 27. The Kaplan-Meier plot for the primary efficacy outcome can be seen in Figure 11. The secondary efficacy outcomes were tested for superiority in a prespecified, hierarchical order and the first five of seven endpoints were significantly reduced in the rivaroxaban treatment arm [see Table 27]. Compared to placebo during 10,000 patient-years of treatment, Rivaroxaban Tablets would be expected to result in 181 fewer primary outcome events and 29 more TIMI major bleeding events, indicating a favorable balance of benefits and risks.

Figure 11: Time to First Occurrence of Primary Efficacy Outcome (Myocardial Infarction, Ischemic Stroke, Cardiovascular Death, Acute Limb Ischemia, Major Amputation due to Vascular Origins) in VOYAGER
This Kaplan-Meier plot shows cumulative incidence rate (%) over 1095 days for Rivaroxaban and Placebo groups.



*All patients received aspirin 100 mg once daily as background therapy.

Figure 12: Risk of Primary Efficacy Outcome by Baseline Characteristics in VOYAGER (Intent-to-Treat Population)
This forest plot shows hazard ratios (HR) and 95% confidence intervals (CI) for various baseline characteristics.



*All patients received aspirin 100 mg once daily as background therapy.
Table 27 provides the efficacy event rates for the prespecified endpoints in VOYAGER and similar endpoints in the COMPASS PAD population.

Table 27: Efficacy Results in VOYAGER (Intent-to-Treat Population) and COMPASS PAD

Table with 6 columns: Outcome Components, VOYAGER (RIVAROXABAN N=3286, Placebo N=3278, Hazard Ratio (95% CI) * p-value †), COMPASS PAD (RIVAROXABAN N=2492, Placebo N=2504, Hazard Ratio (95% CI) *). Rows include 5-Component Outcome (Major thrombotic vascular events) †, MI, Ischemic Stroke ‡, CV death §, Major amputation of a vascular etiology ¶, VOYAGER Secondary Efficacy Outcomes ††, MI, ischemic stroke, CHD death, ¶ ALI, and major amputation due to vascular etiology †††, Unplanned index limb revascularization for recurrent limb ischemia ††††, Hospitalization for a coronary or peripheral cause of a thrombotic nature †††††, MI, ischemic stroke, all-cause mortality, ALI, and major amputation due to vascular etiology ††††††, MI, all-cause stroke, CV death, ALI, major amputation due to vascular etiology †††††††, All-cause mortality ††††††††, VTE events †††††††††.

Efficacy endpoints in COMPASS PAD were analyzed according to the pre-specified endpoints in VOYAGER when applicable.
RIVAROXABAN vs. placebo.
† Two-sided p-values.
‡ Major thrombotic vascular event is the composite of MI, ischemic stroke, CV death, ALI, and major amputation of a vascular etiology.

§ Ischemic stroke for VOYAGER included stroke of uncertain/unknown etiology whereas COMPASS only included ischemic stroke.
¶ CV death includes Coronary Heart Disease death, or death due to other CV causes or sudden cardiac arrest and unknown death.

†† Adjudicated events in VOYAGER and investigator reported events in COMPASS.
††† Secondary outcomes for VOYAGER were tested sequentially.
†††† CHD death includes death due to sudden cardiac death, MI, or coronary revascularization procedure.

††††† Unplanned index limb revascularization for recurrent limb ischemia was not captured in COMPASS study.
†††††† Investigator reported in VOYAGER and adjudicated events in COMPASS.
ALI=acute limb ischemia, CHD=coronary heart disease; CI=confidence interval, CV=cardiovascular, MI=myocardial infarction, VTE=venous thromboembolism.

16 HOW SUPPLIED/STORAGE AND HANDLING
Rivaroxaban Tablets USP, 2.5 mg are available in the packages listed below.
• 2.5 mg tablets: Beige, round, film coated tablets debossed with '513' on one side and plain on the other side. The tablets are supplied in the packages listed:
NDC 76282-774-60 Bottle containing 60 tablets
NDC 76282-774-18 Bottle containing 180 tablets

Storage of tablets:
Store at room temperature between 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature].
Keep out of the reach of children.

17 PATIENT COUNSELING INFORMATION
Advise the patient and/or caregiver to read the FDA-approved patient labeling (Medication Guide).
Instructions for Patient Use
• Advise patients to take Rivaroxaban Tablets only as directed.
• Remind patients to not discontinue Rivaroxaban Tablets without first talking to their healthcare professional.

Advise patients who cannot swallow the tablet whole to crush Rivaroxaban Tablets and combine with a small amount of applesauce followed by food [see Dosage and Administration (2.6)].
For patients requiring an NG tube or gastric feeding tube, instruct the patient or caregiver to crush the Rivaroxaban Tablets and mix it with a small amount of water before administering via the tube [see Dosage and Administration (2.6)].
If a dose is missed, advise the patient according to the instructions in the Full Prescribing Information based on their dosing schedule [see Dosage and Administration (2.5)].

Bleeding Risks
• Advise patients to report any unusual bleeding or bruising to their physician. Inform patients that it might take them longer than usual to stop bleeding, and that they may bruise and/or bleed more easily when they are treated with Rivaroxaban Tablets [see Warnings and Precautions (5.2)].
• If patients have had neuraxial anesthesia or spinal puncture, and particularly, if they are taking concomitant NSAIDs or platelet inhibitors, advise patients to watch for signs and symptoms of spinal or epidural hematoma, such as back pain, tingling, numbness (especially in the lower limbs), muscle weakness, and stool or urine incontinence. If any of these symptoms occur, advise the patient to contact his or her physician immediately [see Boxed Warning].

Invasive or Surgical Procedures
Instruct patients to inform their healthcare professional that they are taking Rivaroxaban Tablets before any invasive procedure (including dental procedures) is scheduled.
Concomitant Medication and Herbs
Advise patients to inform their physicians and dentists if they are taking, or plan to take, any prescription or over-the-counter drugs or herbs, so their healthcare professionals can evaluate potential interactions [see Drug Interactions (7)].

Pregnancy and Pregnancy-Related Hemorrhage
• Advise patients to inform their physician immediately if they become pregnant or intend to become pregnant during treatment with Rivaroxaban Tablets [see Use in Specific Populations (8.1)].
• Advise pregnant women receiving Rivaroxaban Tablets to immediately report to their physician any bleeding or symptoms of blood loss [see Warnings and Precautions (5.7)].

Lactation
Advise patients to discuss with their physician the benefits and risks of Rivaroxaban Tablets for the mother and for the child if they are nursing or intend to nurse during anticoagulant treatment [see Use in Specific Populations (8.2)].
Females and Males of Reproductive Potential
Advise patients who can become pregnant to discuss pregnancy planning with their physician [see Use in Specific Populations (8.3)].

Dispense the Medication Guide at: https://sciengenpharm.com/medication-guide/
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