

# **Rivax (Rivaroxaban) 2.5 mg, 10 mg, 15 mg and 20 mg film-coated tablets**

## **Important Risk Minimization Information for Healthcare Professionals - Prescriber Guide**

The Prescriber Guide is in line with the conditions of the marketing authorisation.

Please refer to SPC for full prescribing information.

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## Prescriber Guide

The Prescriber Guide provides recommendations for the use of Rivaroxaban in order to minimise the risk of bleeding during treatment with Rivaroxaban.

The Prescriber Guide does not substitute the Rivaroxaban Summary of Product Characteristics (SPC).

## Patient Alert Card

A Patient Alert Card must be provided to each patient who is prescribed Rivaroxaban 2.5 mg, 10 mg, 15 mg or 20 mg tablets, and is provided with the product package. The implications of anticoagulant treatment should be explained. Specifically, the need for compliance, signs of bleeding and when to seek medical attention should be discussed with the patient.

The Patient Alert Card will inform physicians and dentists about the patient's anticoagulation treatment and will contain emergency contact information. The patient should be instructed to carry the Patient Alert Card at all times and present it to every healthcare provider.

## Dosing recommendations

### Stroke prevention in adult patients with non-valvular atrial fibrillation

The recommended dose for prevention of stroke and systemic embolism in patients with non-valvular atrial fibrillation (SPAF) is 20 mg once daily.

#### Dosing Scheme



#### Continuous Treatment

Rivaroxaban 20 mg once daily\*

Take with Food

\* For the recommended dosing scheme for patients with atrial fibrillation and moderate or severe renal impairment, this follows the section below.

#### Patients with renal impairment

In patients with moderate (creatinine clearance [CrCl] 30–49 ml/min) or severe (CrCl 15–29 ml/min) renal impairment, the recommended dose is 15 mg once daily. Rivaroxaban is to be used with caution in patients with severe renal impairment (CrCl 15–29 ml/min) and is not recommended in patients with CrCl <15 ml/min.

Rivaroxaban should be used with caution in patients with renal impairment concomitantly receiving other medicinal products that increase rivaroxaban plasma concentrations.

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### Duration of therapy

Rivaroxaban should be continued long term provided the benefit of stroke prevention therapy outweighs the potential risk of bleeding.

### Missed dose

If a dose is missed, the patient should take Rivaroxaban immediately and continue on the following day with the once-daily intake as recommended. The dose should not be doubled within the same day to make up for a missed dose.

### Patients with non-valvular atrial fibrillation undergoing PCI with stent placement

There is limited experience of a reduced dose of 15 mg Rivaroxaban once daily (or 10 mg Rivaroxaban once daily for patients with moderate renal impairment [CrCl 30–49 ml/min]) in addition to a P2Y12 inhibitor for a maximum of 12 months in patients with non-valvular atrial fibrillation who require oral anticoagulation and undergo PCI with stent placement.

### Patients undergoing cardioversion

Rivaroxaban can be initiated or continued in patients who may require cardioversion.

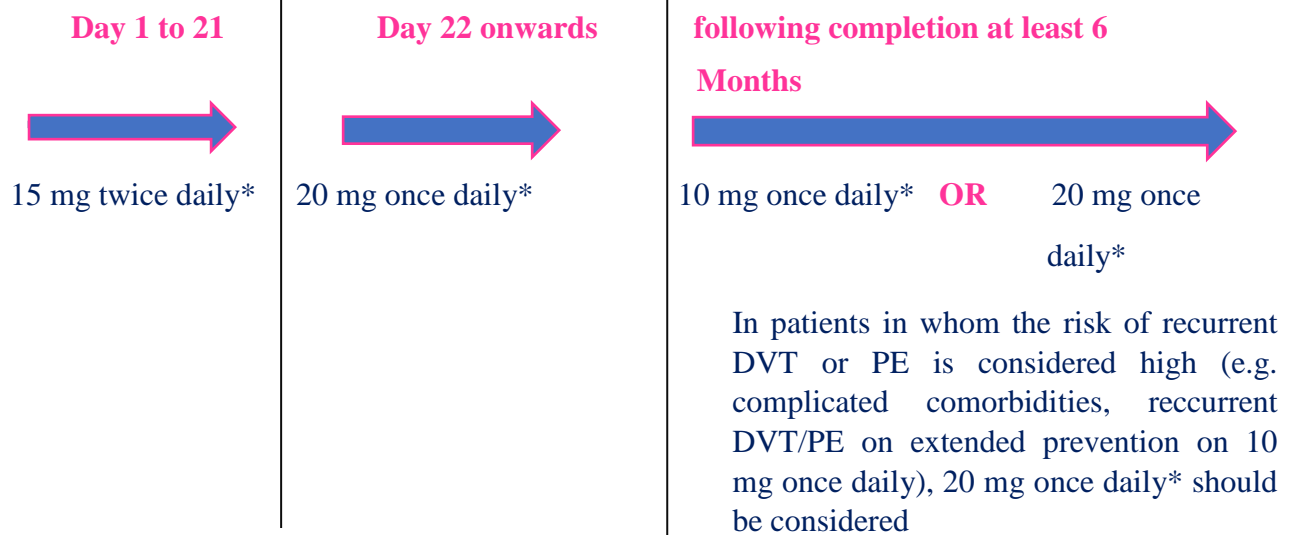
For transoesophageal echocardiogram (TEE) guided cardioversion in patients not previously treated with anticoagulants, Rivaroxaban treatment should be started at least 4 hours before cardioversion to ensure adequate anticoagulation. For all patients, confirmation should be sought prior to cardioversion that the patient has taken Rivaroxaban as prescribed. Decisions on initiation and duration of treatment should take established guideline recommendations for anticoagulant treatment in patients undergoing cardioversion into account.

## **Treatment of deep vein thrombosis (DVT) and pulmonary embolism (PE), and prevention of recurrent DVT and PE**

Adult patients are initially treated with Rivaroxaban 15 mg **twice daily** for the first 3 weeks. This initial treatment is followed by Rivaroxaban 20 mg **once daily** for the continued treatment period. When extended prevention of recurrent DVT and PE is indicated (following completion of at least 6 months' therapy for DVT or PE), the recommended dose is 10 mg **once daily**. In patients in whom the risk of recurrent DVT or PE is considered high, such as those with complicated comorbidities, or who have developed recurrent DVT or PE on extended prevention with Rivaroxaban 10 mg **once daily**, a dose of Rivaroxaban 20 mg **once daily** should be considered.

Rivaroxaban 10 mg is **not** recommended for the initial 6 months' treatment of DVT or PE.

### Dosing Scheme



**10 mg: take with or without food –15/20 mg: must be taken with food**

\* For the recommended dosing scheme for patients with DVT/PE and moderate or severe renal impairment, see below.

#### Patients with renal impairment

Patients with moderate (CrCl 30–49 ml/min) or severe (CrCl 15–29 ml/min) renal impairment treated for acute DVT, acute PE and prevention of recurrent DVT and PE should be treated with Rivaroxaban 15 mg twice daily for the first 3 weeks.

Thereafter, the recommended dose is Rivaroxaban 20 mg once daily. A reduction of the dose from 20 mg once daily to 15 mg once daily should be considered if the patient's assessed risk of bleeding outweighs the risk of recurrent DVT and PE. The recommendation for the use of 15 mg is based on pharmacokinetic (PK) modelling and has not been studied in this clinical setting. Rivaroxaban is to be used with caution in patients with severe renal impairment (CrCl 15–29 ml/min) and is not recommended in patients with CrCl <15 ml/min. When the recommended dose is 10 mg once daily (after ≥6 months of therapy), no dose adjustment from the recommended dose is necessary.

Rivaroxaban should be used with caution in patients with renal impairment (with moderate renal impairment (CrCl 30–49 ml/min) for Rivaroxaban 10 mg) concomitantly receiving other medicinal products that increase rivaroxaban plasma concentrations.

#### Duration of therapy

Short duration of therapy (≥3 months) should be considered in patients with DVT/PE provoked by major transient risk factors (i.e. recent major surgery or trauma). Longer

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duration of therapy should be considered in patients with provoked DVT/PE not related to major transient risk factors, unprovoked DVT/PE, or a history of recurrent DVT/PE.

### Missed dose

#### Twice-daily treatment period (15 mg twice daily for the first 3 weeks)

If a dose is missed, the patient should take Rivaroxaban immediately to ensure intake of 30 mg Rivaroxaban per day. In this case, two 15 mg tablets may be taken at once. Continue with the regular 15 mg twice-daily intake on the following day.

#### Once-daily treatment period (beyond 3 weeks)

If a dose is missed, the patient should take Rivaroxaban immediately and continue on the following day with the once-daily intake as recommended. The dose should not be doubled within the same day to make up for a missed dose.

## **Prevention of atherothrombotic events in adult patients with coronary artery disease (CAD) or symptomatic peripheral artery disease (PAD) at high risk of ischaemic events**

### Dosing Scheme

#### Individual Treatment Duration

Rivaroxaban 2.5 mg twice daily

Rivaroxaban 2.5 mg: take with or without food

### Patients with renal impairment

No dose adjustment is required in patients with moderate renal impairment (CrCl 30–49 ml/min). Rivaroxaban is to be used with caution in patients with severe renal impairment (CrCl 15–29 ml/min) and is not recommended in patients with CrCl <15 ml/min.

In patients with moderate renal impairment (CrCl 30–49 ml/min) concomitantly receiving other medicinal products that increase rivaroxaban plasma concentrations, Rivaroxaban is to be used with caution.

### Duration of therapy

Duration of treatment should be determined for each individual patient based on regular evaluations and should consider the risk for thrombotic events versus the bleeding risks.

### Other warnings and precautions in CAD/PAD patients

In patients at high risk of ischaemic events with CAD/PAD, efficacy and safety of Rivaroxaban 2.5 mg twice daily have been investigated in combination with ASA.

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In patients after recent revascularisation procedure of the lower limb due to symptomatic PAD, efficacy and safety of Rivaroxaban 2.5 mg twice daily have been investigated in combination with the antiplatelet agent ASA alone or ASA plus short-term clopidogrel. If required, dual antiplatelet therapy with clopidogrel should be short-term; long-term dual antiplatelet therapy should be avoided

Patients after recent successful revascularisation procedure of the lower limb (surgical or endovascular including hybrid procedures) due to symptomatic PAD were allowed to additionally receive standard dose of clopidogrel once daily for up to 6 months.

Treatment in combination with other antiplatelet agents, e.g. prasugrel or ticagrelor, has not been studied and is not recommended.

Concomitant treatment of CAD/PAD with ‘Rivaroxaban’ 2.5 mg twice daily and ASA is contraindicated in patients with previous haemorrhagic or lacunar stroke, or any stroke within a month. Treatment with Rivaroxaban 2.5 mg should be avoided in patients with previous stroke or TIA receiving dual antiplatelet therapy.

Rivaroxaban co-administered with ASA should be used with caution in CAD/ PAD patients:

- $\geq 75$  years of age. The benefit-risk of the treatment should be individually assessed on a regular basis
- With a lower weight (<60 kg)
- In CAD patients with severe symptomatic heart failure. Study data indicate that such patients may benefit less from treatment with Rivaroxaban. (See section 5.1 of the SmPC for further clarification.)

Patients taking Rivaroxaban 2.5 mg twice daily should also take a daily dose of 75–100 mg acetylsalicylic acid (ASA).

Safety and efficacy of Rivaroxaban 2.5 mg twice daily in combination with ASA plus clopidogrel/ticlopidine has only been studied in patients with recent ACS (see below).

Dual antiplatelet therapy has not been studied in combination with Rivaroxaban 2.5 mg twice daily in patients with CAD and/or PAD.

#### Rivaroxaban missed dose

If a dose is missed, the patient should continue with the regular 2.5 mg Rivaroxaban dose as recommended at the next scheduled time. The dose should not be doubled to make up for a missed dose.



## Prevention of atherothrombotic events in adult patients after an acute coronary syndrome (ACS) with elevated cardiac biomarkers

### Dosing Scheme

#### Individual Treatment Duration

Rivaroxaban 2.5 mg twice daily

Rivaroxaban 2.5 mg: take with or without food

The recommended dose of Rivaroxaban is 2.5 mg twice daily, starting as soon as possible after stabilisation of the index ACS event but at the earliest 24 hours after hospital admission and at the time when parenteral anticoagulation therapy would normally be discontinued.

**In addition to Rivaroxaban 2.5 mg, patients should also take a daily dose of 75–100 mg acetylsalicylic acid (ASA) or a daily dose of 75–100 mg ASA in addition to either a daily dose of 75 mg clopidogrel or a standard daily dose of ticlopidine.**

Treatment in combination with other antiplatelet agents, e.g. prasugrel or ticagrelor, has not been studied and is not recommended.

#### Patients with renal impairment

No dose adjustment is required in patients with moderate renal impairment (CrCl 30–49 ml/min). Rivaroxaban is to be used with caution in patients with severe renal impairment (CrCl 15–29 ml/min) and is not recommended in patients with CrCl <15 ml/min.

In patients with moderate renal impairment (CrCl 30–49 ml/min) concomitantly receiving other medicinal products that increase rivaroxaban plasma concentrations, Rivaroxaban is to be used with caution.

#### Duration of therapy

Treatment should be regularly evaluated in the individual patient, weighing the risk of ischaemic events against the bleeding risks. Extension of treatment beyond 12 months should be done on an individual patient basis as experience up to 24 months is limited.

#### Other warnings and precautions in ACS patients

Rivaroxaban, co-administered with ASA or with ASA plus clopidogrel or ticlopidine, should be used with caution in ACS patients:

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- $\geq 75$  years of age. The benefit risk of the treatment should be individually assessed on a regular basis
- With a lower weight (<60 kg)

Concomitant treatment of ACS with Rivaroxaban and antiplatelet therapy is contraindicated in patients with a prior stroke or a transient ischaemic attack (TIA).

#### Missed dose

If a dose is missed, the patient should continue with the regular 2.5 mg Rivaroxaban dose as recommended at the next scheduled time. The dose should not be doubled to make up for a missed dose.

## Prevention of VTE in adult patients undergoing elective hip or knee replacement surgery

The recommended dose is 10 mg Rivaroxaban taken orally once daily. The initial dose should be taken 6 to 10 hours after surgery, provided that haemostasis has been established.

#### Duration of treatment

The duration of treatment depends on the individual risk of the patient for venous thromboembolism, which is determined by the type of orthopaedic surgery.

- For patients undergoing major hip surgery, a treatment duration of 5 weeks is recommended
- For patients undergoing major knee surgery, a treatment duration of 2 weeks is recommended

#### Missed dose

If a dose is missed, the patient should take Rivaroxaban immediately and then continue the following day with once-daily intake as before.

## Oral intake

Rivaroxaban 2.5 mg and 10 mg tablets can be taken with or without food.

**Rivaroxaban 15 mg and 20 mg tablets are to be taken with food.** The intake of these doses with food at the same time supports the required absorption of the drug, thus ensuring a high oral bioavailability.

#### Adults

For patients who are unable to swallow whole tablets, a Rivaroxaban tablet may be crushed and mixed with water or apple puree immediately prior to use and then administered orally. After the administration of crushed Rivaroxaban 15 mg or 20 mg film-coated tablets, the dose should be immediately followed by food.

The crushed Rivaroxaban tablet may also be given through gastric tubes after confirmation of the correct gastric placement of the tube. The crushed tablet should be administered in a small amount of water via a gastric tube, after which it should be flushed with water. After the administration of crushed Rivaroxaban 15 mg or 20 mg film-coated tablets, the dose should then be immediately followed by enteral feeding.

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## Children

The safety and efficacy of Rivaroxaban in children aged 0 to 18 years have not been established.

No data are available. Therefore, Rivaroxaban is not recommended for use in children below 18 years of age.

## **Perioperative management**

If an invasive procedure or surgical intervention is required, if possible and based on the clinical judgement of the physician:

- Rivaroxaban 10/15/20 mg should be stopped at least 24 hours before the intervention
- Rivaroxaban 2.5 mg should be stopped at least 12 hours before the intervention

If the procedure cannot be delayed, the increased risk of bleeding should be assessed against the urgency of the intervention.

Rivaroxaban should be restarted after the invasive procedure or surgical intervention as soon as possible provided the clinical situation allows, and adequate haemostasis has been established.

## **Spinal/epidural anaesthesia or puncture**

When neuraxial anaesthesia (spinal/epidural anaesthesia) or spinal/epidural puncture is employed, patients treated with antithrombotic agents for prevention of thromboembolic complications are at risk of developing an epidural or spinal haematoma, which can result in long-term or permanent paralysis. **The risk of these events may be increased by the post-operative use of indwelling epidural catheters or the concomitant use of medicinal products affecting haemostasis. The risk may also be increased by traumatic or repeated epidural or spinal puncture.** Patients are to be frequently monitored for signs and symptoms of neurological impairment (e.g. numbness or weakness of the legs, bowel or bladder dysfunction). If neurological compromise is noted, urgent diagnosis and treatment is necessary. Prior to neuraxial intervention the physician should consider the potential benefit versus the risk in anticoagulated patients or in patients to be anticoagulated for thromboprophylaxis.

**For indication-specific recommendations, please refer to the sections below:**

- ◆ Prevention of stroke and systemic embolism in adult patients with NVA
- ◆ Treatment of DVT and PE and prevention of recurrent DVT and PE in adult patients
- ◆ Prevention of VTE in adult patients undergoing elective hip or knee replacement surgery:

To reduce the potential risk of bleeding associated with the concurrent use of Rivaroxaban and neuraxial (epidural/spinal) anaesthesia or spinal puncture, consider the pharmacokinetic profile of Rivaroxaban.

Placement or removal of an epidural catheter or lumbar puncture is best performed when the anticoagulant effect of Rivaroxaban is estimated to be low.

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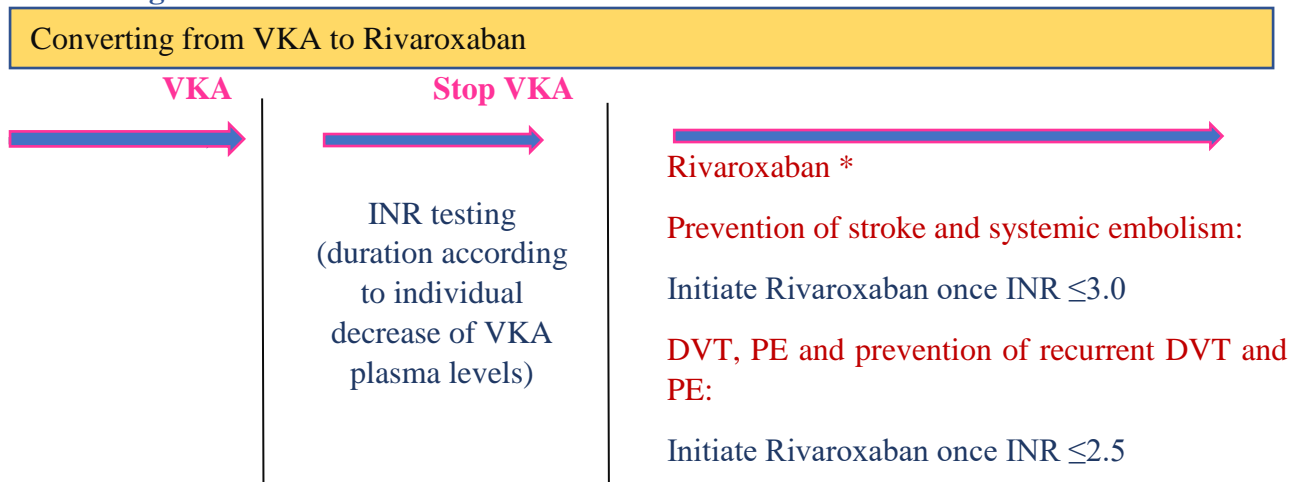
At least 18 hours should elapse after the last administration of Rivaroxaban before removal of an epidural catheter. For the removal of an epidural catheter and based on the general PK characteristics at least 2x half-life, i.e. at least 18 hours in young patients and 26 hours in elderly patients should elapse after the last administration of rivaroxaban (see section 5.2).

- ◆ Prevention of atherothrombotic events in adult patients with coronary artery disease (CAD) or symptomatic peripheral artery disease (PAD) at high risk of ischaemic events
- ◆ Prevention of atherothrombotic events in adult patients after an ACS with elevated cardiac biomarkers:

There is no clinical experience with the use of Rivaroxaban 2.5 mg with ASA alone or with ASA plus clopidogrel or ticlopidine in these situations. To reduce the potential risk of bleeding associated with the concurrent use of Rivaroxaban and neuraxial (epidural/spinal) anaesthesia or spinal puncture, consider the pharmacokinetic profile of Rivaroxaban.

Placement or removal of an epidural catheter or lumbar puncture is best performed when the anticoagulant effect of Rivaroxaban is estimated to be low (see section 5.2 of the SmPC). However, the exact timing to reach a sufficiently low anticoagulant effect in each patient is not known. Platelet aggregation inhibitors should be discontinued as suggested by the manufacturer's prescribing information.

## Converting from VKA to Rivaroxaban



\* See dosing recommendations for required daily dose.

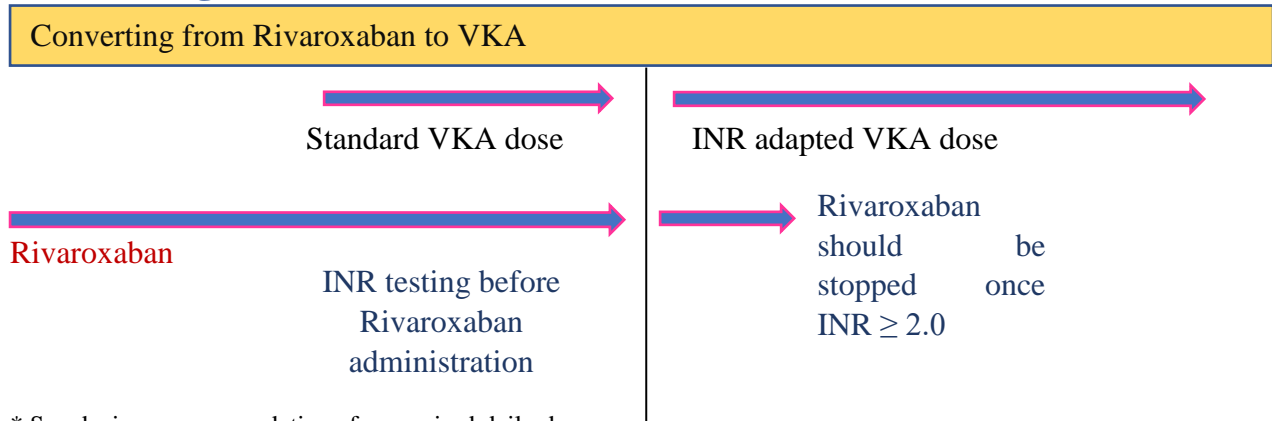
For patients treated for **prevention of stroke and systemic embolism**, treatment with VKA should be stopped and Rivaroxaban therapy should be initiated when the **INR  $\leq 3.0$** .

For patients treated for **DVT, PE and prevention of recurrent DVT and PE**, treatment with VKA should be stopped and Rivaroxaban therapy should be initiated when the **INR  $\leq 2.5$** .

**INR measurement is not appropriate to measure the anticoagulant activity of Rivaroxaban**, and therefore should not be used for this purpose. Treatment with Rivaroxaban only does not require routine coagulation monitoring.

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## Converting from Rivaroxaban to VKA



\* See dosing recommendations for required daily dose.

It is important to ensure adequate anticoagulation while minimising the risk of bleeding during conversion of therapy.

### Adults and children

When converting to VKA, Rivaroxaban and VKA should be given overlapping until the INR  $\geq 2.0$ . For the first 2 days of the conversion period, standard initial dosing of VKA should be used followed by VKA dosing guided by INR testing.

**INR measurement is not appropriate to measure the anticoagulant activity of Rivaroxaban. While patients are on both Rivaroxaban and VKA, the INR should not be tested earlier than 24 hours after the previous dose but prior to the next dose of Rivaroxaban.** Once Rivaroxaban is discontinued, INR values obtained at least 24 hours after the last dose reliably reflect the VKA dosing.

### Children

The safety and efficacy of Rivaroxaban in children aged 0 to 18 years have not been established. No data are available. Therefore, Rivaroxaban is not recommended for use in children below 18 years of age.

### Converting from parenteral anticoagulants to Rivaroxaban

- Patients with a parenteral drug on a fixed dosing scheme such as low- molecular-weight heparin (LMWH): Discontinue parenteral drug and start Rivaroxaban 0 to 2 hours before the time of the next scheduled administration of the parenteral drug
- Patients with a continuously administered parenteral drug such as intravenous unfractionated heparin: Start Rivaroxaban at the time of discontinuation

### Converting from Rivaroxaban to parenteral anticoagulants

Give the first dose of the parenteral anticoagulant at the time the next Rivaroxaban dose would be taken.

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### Populations potentially at higher risk of bleeding

Like all anticoagulants, Rivaroxaban may increase the risk of bleeding. Therefore, Rivaroxaban is contraindicated in patients:

- With active clinically significant bleeding
- With lesion or condition, if considered to be a significant risk for major bleeding. This may include current or recent gastrointestinal ulceration, presence of malignant neoplasms at high risk of bleeding, recent brain or spinal injury, recent brain, spinal or ophthalmic surgery, recent intracranial haemorrhage, known or suspected oesophageal varices, arteriovenous malformations, vascular aneurysms or major intraspinal or intracerebral vascular abnormalities
- Receiving concomitant treatment with any other anticoagulants, e.g. unfractionated heparin (UFH), LMWHs (enoxaparin, dalteparin, etc.), heparin derivatives (fondaparinux, etc.), oral anticoagulants (warfarin, dabigatran etexilate, apixaban, etc.) except under the circumstances of switching anticoagulant therapy or when UFH is given at doses necessary to maintain an open central venous or arterial catheter
- With hepatic disease associated with coagulopathy and clinically relevant bleeding risk, including Child-Pugh class B and C cirrhotic patients

The risk of bleeding increases with increasing age.

Several subgroups of patients are at increased risk and should be carefully monitored for signs and symptoms of bleeding complications.

Treatment decision in these patients should be carried out after assessment of treatment benefit against the risk for bleeding.

### Patients with renal impairment

For adults, see dosing recommendations for patients with moderate (CrCl 30–49 ml/min) or severe (CrCl 15–29 ml/min) renal impairment. Rivaroxaban is to be used with caution in patients with CrCl 15–29 ml/min and in patients with renal impairment (with moderate renal impairment (CrCl 30–49 ml/min) for Rivaroxaban 2.5 mg and 10 mg.) concomitantly receiving other medicinal products that increase rivaroxaban plasma concentrations. Use of Rivaroxaban is not recommended in patients with CrCl <15 ml/min.

The safety and efficacy of Rivaroxaban in children aged 0 to 18 years have not been established. No data are available. Therefore, Rivaroxaban is not recommended for use in children below 18 years of age.

### Patients concomitantly receiving other medicinal products

- Systemic azole-antimycotics (such as ketoconazole, itraconazole, voriconazole and posaconazole) or HIV protease inhibitors (e.g. ritonavir): use of Rivaroxaban is not recommended
- Care is to be taken in patients concomitantly receiving drugs affecting haemostasis, such as non-steroidal anti-inflammatory drugs (NSAIDs), ASA, platelet aggregation inhibitors or

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selective serotonin reuptake inhibitors (SSRIs) and serotonin norepinephrine reuptake inhibitors (SNRIs)

- ACS patients and CAD/PAD patients: Patients on treatment with Rivaroxaban and ASA or with Rivaroxaban and ASA plus clopidogrel/ticlopidine should only receive concomitant treatment with NSAIDs if the benefit outweighs the bleeding risk
- The interaction with erythromycin, clarithromycin or fluconazole is likely not clinically relevant in most patients but can be potentially significant in high-risk patients (for patients with renal impairment see further above)

Interaction studies have only been performed in adults. The safety and efficacy of Rivaroxaban in children aged 0 to 18 years have not been established. No data are available. Therefore, Rivaroxaban is not recommended for use in children below 18 years of age.

### **Patients with other haemorrhagic risk factors**

As with other antithrombotics, Rivaroxaban is not recommended in patients with an increased bleeding risk, such as:

- Congenital or acquired bleeding disorders
- Uncontrolled severe arterial hypertension
- Other gastrointestinal disease without active ulceration that can potentially lead to bleeding complications (e.g. inflammatory bowel disease, oesophagitis, gastritis and gastroesophageal reflux disease)
- Vascular retinopathy
- Bronchiectasis or history of pulmonary bleeding

### **Patients with cancer**

Patients with malignant disease may simultaneously be at higher risk of bleeding and thrombosis. The individual benefit of antithrombotic treatment should be weighed against risk for bleeding in patients with active cancer dependent on tumour location, antineoplastic therapy and stage of disease. Tumours located in the gastrointestinal or genitourinary tract have been associated with an increased risk of bleeding during Xarelto therapy. In patients with malignant neoplasms at high risk of bleeding, the use of Xarelto is contraindicated

### **Other contraindications**

Rivaroxaban is contraindicated during pregnancy and breastfeeding. Women of childbearing potential should avoid becoming pregnant during treatment with Rivaroxaban. Rivaroxaban is also contraindicated in case of hypersensitivity to the active substance or to any of the excipients.

### **Overdose**

Due to limited absorption, a ceiling effect with no further increase in average plasma exposure is expected at supratherapeutic doses of 50 mg Rivaroxaban and above in adults; however, no data is available at supratherapeutic doses in children. A decrease in the relative bioavailability for increasing doses (in mg/kg bodyweight) was found in children, suggesting

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absorption limitations for higher doses, even when taken together with food. A specific reversal agent antagonising the pharmacodynamic effect of rivaroxaban is available (refer to the Summary of Product Characteristics of andexanet alfa); however, it is not established in children. The use of activated charcoal to reduce absorption in case of overdose may be considered.

Should a bleeding complication arise in a patient receiving Rivaroxaban, the next Rivaroxaban administration should be delayed or treatment should be discontinued as appropriate. Individualised bleeding management may include:

- Symptomatic treatment, such as mechanical compression, surgical intervention, fluid replacement
- Haemodynamic support, blood product or component transfusion
- If bleeding cannot be controlled with the above measures, either the administration of a specific factor Xa inhibitor reversal agent (andexanet alfa) or a specific procoagulant reversal agent, such as prothrombin complex concentrate (PCC), activated prothrombin complex concentrate (APCC) or recombinant factor VIIa (r-FVIIa) should be considered. However, there is currently very limited clinical experience with the use of these medicinal products in adults and in children receiving Rivaroxaban

Due to the high plasma protein binding, Rivaroxaban is not expected to be dialysable.

### Coagulation testing

Rivaroxaban does not require routine coagulation monitoring. However, measuring Rivaroxaban levels may be useful in exceptional situations where knowledge of Rivaroxaban exposure may help to take clinical decisions, e.g. overdose and emergency surgery.

Anti-FXa assays with Rivaroxaban-specific calibrators to measure rivaroxaban levels are commercially available. If clinically indicated, haemostatic status can also be assessed by prothrombin time (PT) using Neoplastin as described in the SmPC.

The following coagulation tests are increased: PT, activated partial thromboplastin time (aPTT) and calculated PT INR. Since the INR was developed to assess the effects of VKAs on the PT, it is therefore not appropriate to use the INR to measure activity of Rivaroxaban.

Dosing or treatment decisions should not be based on results of INR except when converting from Rivaroxaban to VKA as described above.

*ACS, acute coronary syndrome; ASA, acetylsalicylic acid; BID, twice daily; CAD, coronary artery disease; CrCl, creatinine clearance; DVT, deep vein thrombosis; GFR, glomerular filtration rate; HIV, human immunodeficiency virus; INR, international normalised ratio; LMWH, low-molecular-weight heparin; NSAID, non-steroidal anti-inflammatory drug; NVAf, non-valvular atrial fibrillation; OD, once daily; PAD, peripheral artery disease; PCI, percutaneous coronary intervention; PE, pulmonary embolism; SmPC, Summary of Product Characteristics; SPAF, stroke prevention in atrial fibrillation; TID, three times daily; VKA, vitamin K antagonist; VTE, venous thromboembolism; UFH, unfractionated heparin.*

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**Dosing overview in adults\***

The duration of therapy and dose selection should be individualised after careful assessment of the treatment benefit against the risk for bleeding.

	<b>Time period</b>	<b>Dosing schedule</b>	<b>Total daily dose</b>
Treatment and prevention of recurrent DVT and PE	Day 1 - 21	15 mg twice daily	30 mg
	Day 22 onwards	20 mg once daily	20 mg
Prevention of recurrent DVT and PE	Following completion of at least 6 months therapy for DVT or PE	10 mg once daily or 20 mg once daily (In patients in whom the risk of recurrent DVT or PE is considered high, such as those with complicated comorbidities, or who have developed recurrent DVT or PE on extended prevention)	10 mg or 20 mg

**Rivaroxaban 15 mg and 20 mg must be taken with food.**

For patients who are unable to swallow whole tablets, Rivaroxaban tablet may be crushed and mixed with water or apple puree immediately prior to use and administered orally.

† With one or more risk factors, such as congestive heart failure, hypertension, age  $\geq 75$  years, diabetes mellitus, prior stroke or transient ischaemic attack.

‡ Use with caution in patients with creatinine clearance 15–29 ml/min and in patients with renal impairment when concomitantly receiving other medicinal products that increase rivaroxaban plasma concentration.

§ Not recommended as an alternative to unfractionated heparin in patients with PE who are haemodynamically unstable or may receive thrombolysis or pulmonary embolectomy.

This document has been reviewed and approved by The Saudi Food and Drug Authority (SFDA)

**Reporting adverse reactions** Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions to:

**The National Pharmacovigilance Centre  
Saudi Food and Drug Authority**

Call Center: 19999

E-mail: [npc.drug@sfd.gov.sa](mailto:npc.drug@sfd.gov.sa)

Website: <https://ade.sfd.gov.sa/>

**Saudi AmaroX contact details:**

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