



# Consider Xarelto<sup>®</sup>

in patients with nonvalvular AF with moderate renal impairment (CrCl 30-49 mL/min)

<sup>P</sup>Xarelto<sup>®</sup> (rivaroxaban) film-coated tablet (10 mg, 15 mg, 20 mg) is indicated for the prevention of stroke and systemic embolism in patients with atrial fibrillation, in whom anticoagulation is appropriate.<sup>1</sup>

## MEET DEREK<sup>†</sup>

- 70 years old
- Married for 45 years and a grandad of 3
- Retired driver
- Diagnosed with CKD 5 years ago (declining renal function, latest recorded CrCl = 31 mL/min)
- Recent ECG confirmed AF

Increasing age is associated with declining renal function. Please consider the benefits and risks of anticoagulation therapy before administering Xarelto<sup>®</sup> to patients with moderate renal impairment having a CrCl close to the severe renal impairment category (CrCl <30 mL/min), or to those with a potential to have deterioration of renal function to severe impairment during therapy.<sup>1</sup>

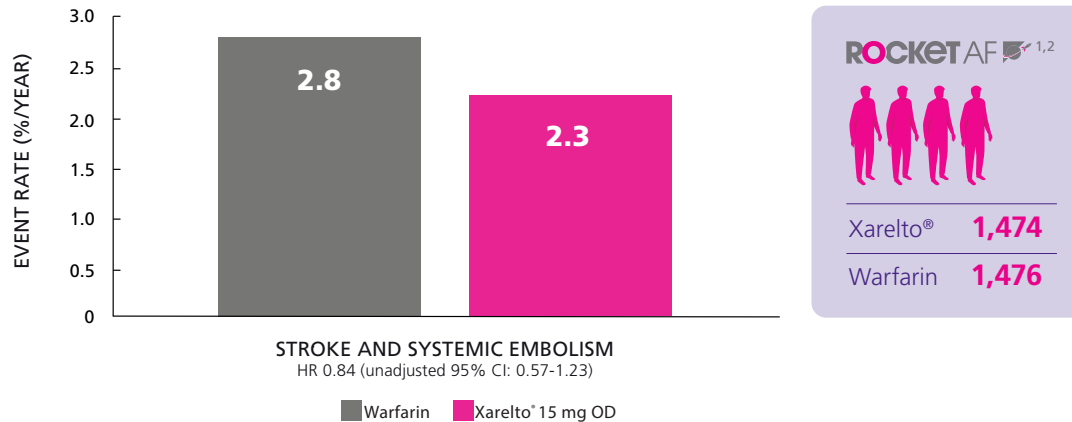
CKD: chronic kidney disease; CrCl: creatinine clearance; ECG: electrocardiogram; AF: atrial fibrillation  
<sup>†</sup>Fictitious patient. May not be representative of all patients.



# Xarelto<sup>®</sup> was prospectively studied with a reduced dose for patients with moderate renal impairment (CrCl 30-49 mL/min) in a subgroup analysis from ROCKET AF<sup>1,2†</sup>

## Combined stroke and systemic embolism rates (principal efficacy outcome)<sup>1,2</sup>

Patients with moderate renal impairment (CrCl 30-49 mL/min)



## Xarelto<sup>®</sup> bleeding profile in AF patients with moderate renal impairment (CrCl 30-49 mL/min)<sup>1,2†</sup>

Principal safety endpoint:

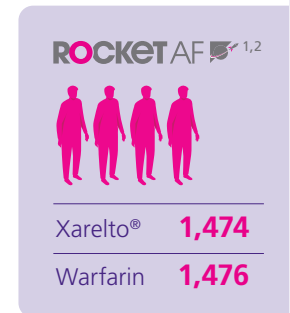
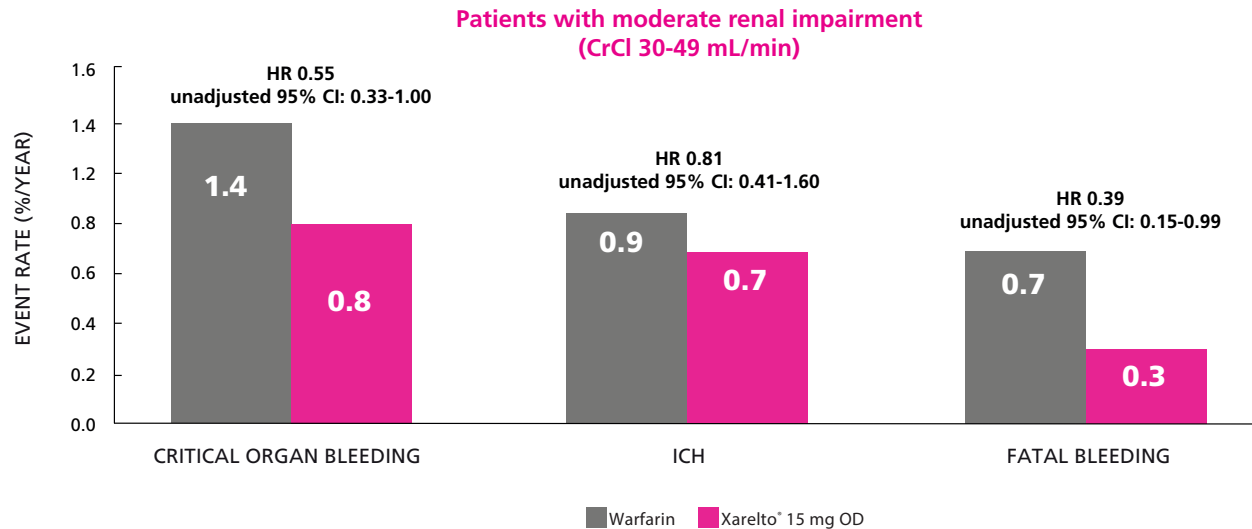
- The rates of total major and clinically relevant nonmajor bleeding events were not statistically significantly different between Xarelto<sup>®</sup> vs. warfarin (17.82%/year vs. 18.28%/year [HR 0.98, unadjusted 95% CI: 0.84-1.14])

CrCl: creatinine clearance; OD: once daily; HR: hazard ratio; CI: confidence interval

† Moderate renal impaired (CrCl 30-49 mL/min) subgroup analysis of ROCKET AF, a prospective, randomized, double-blind, double-dummy, parallel-group, multicentre, pivotal trial investigating the efficacy and safety profiles of oral Xarelto<sup>®</sup> (20 mg OD, 15 mg OD for patients with moderate renal impairment [CrCl 30-49 mL/min], N=7,131) vs. warfarin (dose-adjusted to INR 2.5 [range 2.0-3.0], N=7,133) for the prevention of stroke or systemic embolism in patients with AF. Mean treatment duration: 572 days.<sup>1,2</sup>

# Xarelto<sup>®</sup> was prospectively studied with a reduced dose for patients with moderate renal impairment (CrCl 30-49 mL/min) in a subgroup analysis from ROCKET AF<sup>1,2†</sup>

## Rates of critical organ bleeding, intracranial hemorrhage (ICH) and fatal bleeding (secondary safety outcomes)



CrCl: creatinine clearance; OD: once daily; HR: hazard ratio; CI: confidence interval

† Moderate renal impaired (CrCl 30-49 mL/min) subgroup analysis of ROCKET AF, a prospective, randomized, double-blind, double-dummy, parallel-group, multicentre, pivotal trial investigating the efficacy and safety profiles of oral Xarelto<sup>®</sup> (20 mg OD, 15 mg OD for patients with moderate renal impairment [CrCl 30-49 mL/min], N=7,131) vs. warfarin (dose-adjusted to INR 2.5 [range 2.0-3.0], N=7,133) for the prevention of stroke or systemic embolism in patients with AF. Mean treatment duration: 572 days.<sup>1,2</sup>

# Choose an appropriate dose for your patients<sup>†</sup>

## Xarelto<sup>®</sup> dosage for AF patients according to renal function



Normal CrCl  
**>80**  
mL/min



Mild CrCl  
**50-80**  
mL/min



Moderate CrCl  
**30-49**  
mL/min



Severe CrCl\*  
**15-<30**  
mL/min



20 mg OD



15 mg OD –  
Impaired renal  
function

OD: once daily

\* Must be used with caution.

<sup>†</sup> Please consult the Product Monograph for complete dosage and administration instructions.

# Dosing considerations

- Xarelto® should be used with caution in patients with moderate renal impairment (CrCl 30-49 mL/min), especially in those concomitantly receiving other drugs which increase rivaroxaban plasma concentrations.<sup>1</sup>
- Physicians should consider the benefit/risk of anticoagulant therapy before administering Xarelto® to patients with moderate renal impairment having a creatinine clearance close to the severe renal impairment category (CrCl <30 mL/min), or in those with a potential to have deterioration of renal function to severe impairment during therapy.<sup>1</sup>
- Xarelto® must be used with caution in patients with severe renal impairment (CrCl 15-<30 mL/min) and is not recommended in patients with CrCl <15 mL/min.<sup>1</sup>
- Patients who develop acute renal failure while on Xarelto® should discontinue such treatment.<sup>1</sup>
- Xarelto® 15 and 20 mg tablets should be taken with food.<sup>1</sup>
- For patients who are unable to swallow whole tablets, Xarelto® tablets may be crushed and mixed with applesauce immediately prior to use and administered orally. After the administration of a crushed Xarelto® 15 mg and 20 mg tablet, the dose should be immediately followed by food.<sup>1</sup>



**Xarelto® 15 mg OD is the recommended dosing for patients with moderate to severe renal impairment (CrCl 15-49 mL/min)<sup>1†</sup>**

<sup>†</sup>Xarelto® is not recommended in patients with CrCl <15 mL/min. Different dosing is recommended based on CrCl levels; see dosing recommendation table.<sup>1</sup>

**Indications and clinical use not discussed elsewhere in this piece:**

Xarelto® film-coated tablet (10 mg, 15 mg, 20 mg) is indicated for the:

- treatment of venous thromboembolic events (deep vein thrombosis [DVT], pulmonary embolism [PE]) and prevention of recurrent DVT and PE.
- prevention of venous thromboembolic events (VTE) in patients who have undergone elective total hip replacement (THR) or total knee replacement (TKR) surgery.

Xarelto® film-coated tablet (2.5 mg), in combination with 75 mg-100 mg ASA, is indicated for the:

- prevention of stroke, myocardial infarction (MI) and cardiovascular (CV) death, and for the prevention of acute limb ischemia and mortality in patients with coronary artery disease (CAD) with or without peripheral artery disease (PAD).

For the treatment of VTE, Xarelto® is **not** recommended as an alternative to unfractionated heparin in patients with pulmonary embolus who are hemodynamically unstable, or who may receive thrombolysis or pulmonary embolectomy, since the safety and efficacy of Xarelto® have not been established in these clinical situations.

Xarelto® is not recommended for use in children less than 18 years of age.

**Contraindications:**

- Clinically significant active bleeding, including gastrointestinal bleeding
- Lesions or conditions at increased risk of clinically significant bleeding, e.g., recent cerebral infarction (hemorrhagic or ischemic), active peptic ulcer disease with recent bleeding, patients with spontaneous or acquired impairment of hemostasis

- Concomitant **systemic** treatment with strong inhibitors of **both** CYP 3A4 and P-glycoprotein (P-gp), such as ketoconazole, itraconazole, posaconazole, or ritonavir
- Concomitant treatment with any other anticoagulant, including:
  - unfractionated heparin (UFH), except at doses used to maintain a patent central venous or arterial catheter,
  - low-molecular-weight heparins (LMWH), such as enoxaparin and dalteparin,
  - heparin derivatives, such as fondaparinux, and
  - oral anticoagulants, such as warfarin, dabigatran, apixaban, except under circumstances of switching therapy to or from Xarelto®.
- Hepatic disease (including Child-Pugh Class B and C) associated with coagulopathy, and having clinically relevant bleeding risk
- Pregnancy
- Nursing women
- Hypersensitivity to Xarelto® (rivaroxaban) or to any ingredient in the formulation

**Most serious warnings and precautions:**

**PREMATURE DISCONTINUATION OF ANY ORAL ANTICOAGULANT, INCLUDING XARELTO®, INCREASES THE RISK OF THROMBOTIC EVENTS. To reduce this risk, consider coverage with another anticoagulant if Xarelto® is discontinued for a reason other than pathological bleeding or completion of a course of therapy.**

**Bleeding:** Xarelto®, like other anticoagulants, should be used with caution in patients with an increased bleeding risk. Any unexplained fall in

hemoglobin or blood pressure should lead to a search for a bleeding site. Patients at high risk of bleeding should not be prescribed Xarelto®.

**Should severe bleeding occur, treatment with Xarelto® must be discontinued and the source of bleeding investigated promptly.**

See Other relevant warnings and precautions for concomitant use of drugs affecting hemostasis.

**Peri-operative spinal/epidural anesthesia, lumbar puncture: The risk of developing an epidural or spinal hematoma that may result in long-term neurological injury or permanent paralysis is increased by the use of indwelling epidural catheters or the concomitant use of drugs affecting hemostasis. Accordingly, the use of Xarelto®, at doses greater than 10 mg, is not recommended in patients undergoing anesthesia with post-operative indwelling epidural catheters. The risk may also be increased by traumatic or repeated epidural or spinal puncture. If traumatic puncture occurs, the administration of Xarelto® should be delayed for 24 hours.**

Patients who have undergone epidural puncture and who are receiving Xarelto® 10 mg should be frequently monitored for signs and symptoms of neurological impairment. If neurological deficits are noted, urgent diagnosis and treatment is necessary. The physician should consider the potential benefit versus the risk before neuraxial intervention in patients anticoagulated or to be anticoagulated for thromboprophylaxis and use Xarelto® 10 mg only when the benefits clearly outweigh the possible risks. An epidural catheter should not be withdrawn earlier than 18 hours after the last administration of Xarelto®. Xarelto® should be administered not earlier than 6 hours

after the removal of the catheter. No clinical experience with the use of Xarelto® 15 mg and 20 mg, or Xarelto® 2.5 mg in combination with ASA in these situations.

**Renal impairment: Xarelto® must be used with caution in patients with severe renal impairment (CrCl 15-<30 mL/min).** Xarelto® should be used with caution in patients with moderate renal impairment (CrCl 30–49 mL/min), especially in those concomitantly receiving other drugs which increase rivaroxaban plasma concentrations. Xarelto® is not recommended in patients with CrCl <15 mL/min. Determine estimated creatinine clearance (eCrCl) in all patients before instituting Xarelto®.

**Monitoring and laboratory tests: Although Xarelto® therapy will lead to an elevated INR, depending on the timing of the measurement, the INR is not a valid measure to assess the anticoagulant activity of Xarelto®. The INR is only calibrated and validated for vitamin K antagonists (VKA) and should not be used for any other anticoagulant, including Xarelto®.**

**Other relevant warnings and precautions:**

- Fall in hemoglobin or blood pressure
- Concomitant use of drugs affecting hemostasis such as non-steroidal anti-inflammatory drugs (NSAIDs), acetylsalicylic acid (ASA), platelet aggregation inhibitors or selective serotonin reuptake inhibitors (SSRIs), and serotonin norepinephrine reuptake inhibitors (SNRIs)
- Chronic concomitant treatment with NSAIDs if receiving Xarelto® 2.5 mg with ASA
- Atrial fibrillation and having a condition that warrants single or dual antiplatelet therapy

- Use of Xarelto® 2.5 mg and ASA in patients with CAD with or without PAD, in combination with or as a replacement for dual antiplatelet therapy (DAPT). Not indicated in patients with unstable atherosclerotic disease when DAPT is indicated.
- Use of antiplatelet agents, prasugrel and ticagrelor
- Use of thrombolytics during acute myocardial infarction (AMI) or acute stroke due to expected increased risk of major bleeding
- Patients with prosthetic heart valves, or other valve procedures or those with hemodynamically significant rheumatic heart disease, especially mitral stenosis. Not indicated for thromboprophylaxis in patients having recently undergone transcatheter aortic valve replacement.
- Patients diagnosed with antiphospholipid syndrome and with a history of thrombosis
- Patients with atrial fibrillation who undergo PCI with stent placement
- CAD/PAD patients with history of previous hemorrhagic or lacunar stroke
- CAD/PAD patients in the first month after an ischemic, non-lacunar stroke
- Interaction with strong inhibitors of both CYP 3A4 and P-gp, such as ketoconazole, itraconazole, posaconazole, or ritonavir. These drugs may increase Xarelto® plasma concentrations which increases bleeding risk.
- Patients with mild and moderate renal impairment concomitantly treated with combined P-gp and moderate CYP 3A4 inhibitors such as erythromycin increased exposure to rivaroxaban. Caution is required.
- Interaction with strong CYP 3A4 inducers, such as rifampicin, and the anticonvulsants, phenytoin, carbamazepine, phenobarbital
- Patients with hepatic impairment
- Patients who undergo surgery or invasive procedures including fracture-related surgery of the lower limbs (limited clinical data), pre-operative phase (associated with risk of bleeding) and peri-operative phase when neuraxial (epidural/spinal) anesthesia or spinal puncture is performed (associated with risk of epidural or spinal hematoma that may result in long-term neurological injury or permanent paralysis) and post-procedural period (to avoid unnecessary increased risk of thrombosis)
- Patients with lactose sensitivity
- Use of Xarelto® 2.5 mg BID + ASA in patients with chronic CAD with or without PAD ≥75 years of age

**For more information:**

Please consult the Xarelto® Product Monograph at [www.bayer.ca/omr/online/xarelto-pm-en.pdf](http://www.bayer.ca/omr/online/xarelto-pm-en.pdf) for important information relating to adverse reactions, drug interactions, and dosing information which have not been discussed in this piece.

The Product Monograph is also available by calling 1-800-265-7382.

# Xarelto<sup>®</sup>-based regimen for AF patients with moderate renal impairment



- Prospectively studied in patients with moderate renal impairment<sup>2</sup>
- Must be used with caution in patients with severe renal impairment (CrCl 15-<30 mL/min) and is not recommended in patients with CrCl <15 mL/min<sup>1</sup>

Consider Xarelto<sup>®</sup> 15 mg OD for patients like Derek<sup>†</sup>

<sup>†</sup> Fictitious patient. May not be representative of all patients.

**References:** 1. Xarelto<sup>®</sup> (rivaroxaban tablet) Product Monograph. September 20, 2019.  
2. Fox KA et al. *Eur Heart J* 2011;32(19):2387-94. 3. Patel MR et al. *NEJM* 2011;365(10):883-91.



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