ANNEX I SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE MEDICINAL PRODUCT

Lixiana 15 mg film-coated tablets Lixiana 30 mg film-coated tablets Lixiana 60 mg film-coated tablets

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Lixiana 15 mg film-coated tablets

Each 15 mg film-coated tablet contains 15 mg edoxaban (as tosilate).

Lixiana 30 mg film-coated tablets

Each 30 mg film-coated tablet contains 30 mg edoxaban (as tosilate).

Lixiana 60 mg film-coated tablets

Each 60 mg film-coated tablet contains 60 mg edoxaban (as tosilate).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Film-coated tablet

Lixiana 15 mg film-coated tablets

Orange, round-shaped film-coated tablets (6.7 mm diameter) debossed with "DSC L15".

Lixiana 30 mg film-coated tablets

Pink, round-shaped film-coated tablets (8.5 mm diameter) debossed with "DSC L30".

Lixiana 60 mg film-coated tablets

Yellow, round-shaped film-coated tablets (10.5 mm diameter) debossed with "DSC L60".

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Lixiana is indicated in prevention of stroke and systemic embolism in adult patients with nonvalvular atrial fibrillation (NVAF) with one or more risk factors, such as congestive heart failure, hypertension, age ≥ 75 years, diabetes mellitus, prior stroke or transient ischaemic attack (TIA).

Lixiana is indicated in treatment of deep vein thrombosis (DVT) and pulmonary embolism (PE), and for the prevention of recurrent DVT and PE in adults (see section 4.4 for haemodynamically unstable PE patients).

4.2 Posology and method of administration

Posology

Prevention of stroke and systemic embolism

The recommended dose is 60 mg edoxaban once daily.

Therapy with edoxaban in NVAF patients should be continued long term.

Treatment of DVT, treatment of PE and prevention of recurrent DVT and PE (VTE)

The recommended dose is 60 mg edoxaban once daily following initial use of parenteral anticoagulant for at least 5 days (see section 5.1). Edoxaban and initial parenteral anticoagulant should not be administered simultaneously.

The duration of therapy for treatment of DVT and PE (venous thromboembolism (VTE)), and prevention of recurrent VTE should be individualised after careful assessment of the treatment benefit against the risk for bleeding (see section 4.4). Short duration of therapy (at least 3 months) should be based on transient risk factors (e.g. recent surgery, trauma, immobilisation) and longer durations should be based on permanent risk factors or idiopathic DVT or PE.

For NVAF and VTE the recommended dose is 30 mg edoxaban once daily in patients with one or more of the following clinical factors:

- Moderate or severe renal impairment (creatinine clearance (CrCl) 15 50 mL/min)
- Low body weight $\leq 60 \text{ kg}$
- Concomitant use of the following P-glycoprotein (P-gp) inhibitors: ciclosporin, dronedarone, erythromycin, or ketoconazole.

Table 1: Summary of posology in NVAF and VTE (DVT and PE)

Summary guide for dosing						
Recommended dose		60 mg edoxaban				
Recommended dose		once daily				
Dose recommenda	ation for patients with one or more of the following	ng clinical factors:				
Renal impairment	Moderate or severe (CrCl 15 – 50 mL/min)					
Low body weight	≤ 60 kg	30 mg edoxaban once daily				
P-gp inhibitors	Ciclosporin, dronedarone, erythromycin, ketoconazole					

Missed dose

If a dose of edoxaban is missed, the dose should be taken immediately and then be continued the following day with the once-daily intake as recommended. The patient should not take double the prescribed dose on the same day to make up for a missed dose.

Switching to and from edoxaban

Continued anticoagulant therapy is important in patients with NVAF and VTE. There may be situations that warrant a change in anticoagulation therapy (Table 2).

Table 2: Switching of anticoagulant treatment in NVAF and VTE (DVT and PE)

	Switching to edoxaban						
From	To	Recommendation					
Vitamin K antagonist (VKA)	Edoxaban	Discontinue the VKA and start edoxaban when the international normalised ratio (INR) is ≤ 2.5 .					
Oral anticoagulants other than VKA	Edoxaban	Discontinue dabigatran, rivaroxaban or apixaban and start edoxaban at the time of the next dose of the oral anticoagulant (see section 5.1).					
Parenteral anticoagulants	Edoxaban	These medicinal products should not be administered simultaneously. Subcutaneous anticoagulant (i.e. low molecular weight heparin (LMWH), fondaparinux): Discontinue subcutaneous anticoagulant and start edoxaban at the time of the next scheduled subcutaneous anticoagulant dose. Intravenous unfractionated heparin (UFH): Discontinue the infusion and start edoxaban 4 hours later.					

Switching from edoxaban						
From	То	Recommendation				
		There is a potential for inadequate anticoagulation during the transition from edoxaban to VKA. Continuous adequate anticoagulation should be ensured during any transition to an alternate anticoagulant.				
		Oral option: For patients currently on a 60 mg dose, administer an edoxaban dose of 30 mg once daily together with an appropriate VKA dose.				
		For patients currently on a 30 mg dose (for one or more of the following clinical factors: moderate to severe renal impairment (CrCl 15 - 50 mL/min), low body weight, or use with certain P-gp inhibitors), administer an edoxaban dose of 15 mg once daily together with an appropriate VKA dose.				
Edoxaban	VKA	Patients should not take a loading dose of VKA in order to promptly achieve a stable INR between 2 and 3. It is recommended to take into account the maintenance dose of VKA and if the patient was previously taking a VKA or to use valid INR driven VKA treatment algorithm, in accordance with local practice.				
		Once an INR \geq 2.0 is achieved, edoxaban should be discontinued. Most patients (85%) should be able to achieve an INR \geq 2.0 within 14 days of concomitant administration of edoxaban and VKA. After 14 days it is recommended that edoxaban is discontinued and the VKA continued to be titrated to achieve an INR between 2 and 3.				
		It is recommended that during the first 14 days of concomitant therapy the INR is measured at least 3 times just prior to taking the daily dose of edoxaban to minimise the influence of edoxaban on INR measurements. Concomitant edoxaban and VKA can increase the INR post edoxaban dose by up to 46%.				
		Parenteral option: Discontinue edoxaban and administer a parenteral anticoagulant and VKA at the time of the next scheduled edoxaban dose. Once a stable INR of ≥ 2.0 is achieved, the parenteral anticoagulant should be discontinued and the VKA continued.				
Edoxaban	Oral anticoagulants other than VKA	Discontinue edoxaban and start the non-VKA anticoagulant at the time of the next scheduled dose of edoxaban.				

Switching from edoxaban								
From To Recommendation								
Edoxaban	Parenteral anticoagulants	These medicinal products should not be administered simultaneously. Discontinue edoxaban and start the parenteral anticoagulant at the time of the next scheduled dose of edoxaban.						

Special populations

Elderly population

No dose reduction is required (see section 5.2).

Renal impairment

Renal function should be assessed in all patients by calculating the CrCl prior to initiation of treatment with edoxaban to exclude patients with end stage renal disease (i.e. CrCl < 15 mL/min), to use the correct edoxaban dose in patients with CrCl 15 - 50 mL/min (30 mg once daily), in patients with CrCl > 50 mL/min (60 mg once daily) and when deciding on the use of edoxaban in patients with increased CrCl (see section 4.4).

Renal function should also be assessed when a change in renal function is suspected during treatment (e.g. hypovolaemia, dehydration, and in case of concomitant use of certain medicinal products).

The method used to estimate renal function (CrCl in mL/min) during the clinical development of edoxaban was the Cockcroft-Gault method. The formula is as follows:

• For creatinine in μmol/L:

$$1.23 \times (140\text{-age [years]}) \times \text{weight [kg] (} \times 0.85 \text{ if female)}$$

serum creatinine [µmol/L]

• For creatinine in mg/dL:

$$\frac{\text{(140-age [years])} \times \text{weight [kg] (} \times \text{ 0.85 if female)}}{72 \times \text{serum creatinine [mg/dL]}}$$

This method is recommended when assessing patients' CrCl prior to and during edoxaban treatment.

In patients with mild renal impairment (CrCl > 50 - 80 mL/min), the recommended dose is 60 mg edoxaban once daily.

In patients with moderate or severe renal impairment (CrCl 15 - 50 mL/min), the recommended dose is 30 mg edoxaban once daily (see section 5.2).

In patients with end stage renal disease (ESRD) (CrCl < 15 mL/min) or on dialysis, the use of edoxaban is not recommended (see sections 4.4 and 5.2).

Hepatic impairment

Edoxaban is contraindicated in patients with hepatic disease associated with coagulopathy and clinically relevant bleeding risk (see section 4.3).

In patients with severe hepatic impairment edoxaban is not recommended (see sections 4.4 and 5.2).

In patients with mild to moderate hepatic impairment the recommended dose is 60 mg edoxaban once daily (see section 5.2). Edoxaban should be used with caution in patients with mild to moderate hepatic impairment (see section 4.4).

Patients with elevated liver enzymes (alanine aminotransferase (ALT) or aspartate transaminase (AST) > 2 x upper limit of normal (ULN)) or total bilirubin ≥ 1.5 x ULN, were excluded in clinical studies. Therefore edoxaban should be used with caution in this population (see sections 4.4 and 5.2). Prior to initiating edoxaban, liver function testing should be performed.

Body weight

For patients with body weight \leq 60 kg, the recommended dose is 30 mg edoxaban once daily (see section 5.2).

Gender

No dose reduction is required (see section 5.2).

Concomitant use of Lixiana with P-glycoprotein (P-gp) inhibitors

In patients concomitantly taking Lixiana and the following P-gp inhibitors: ciclosporin, dronedarone, erythromycin, or ketoconazole, the recommended dose is 30 mg Lixiana once daily (see section 4.5). No dose reduction is required for concomitant use of amiodarone, quinidine or verapamil (see section 4.5).

The use of Lixiana with other P-gp inhibitors including HIV protease inhibitors has not been studied.

Patients undergoing cardioversion

Lixiana can be initiated or continued in patients who may require cardioversion. For transoesophageal echocardiogram (TEE) guided cardioversion in patients not previously treated with anticoagulants, Lixiana treatment should be started at least **2 hours** before cardioversion to ensure adequate anticoagulation (see sections 5.1 and 5.2). Cardioversion should be performed no later than 12 hours after the dose of Lixiana on the day of the procedure.

For all patients undergoing cardioversion: Confirmation should be sought prior to cardioversion that the patient has taken Lixiana as prescribed. Decisions on initiation and duration of treatment should follow established guidelines for anticoagulant treatment in patients undergoing cardioversion.

Paediatric population

Edoxaban is not recommended for use in children and adolescents from birth to 18 years of age with confirmed VTE (PE and/or DVT) event as the efficacy has not been established. Available data in VTE patients are described in sections 4.8, 5.1 and 5.2.

Method of administration

For oral use.

Edoxaban can be taken with or without food (see section 5.2).

For patients who are unable to swallow whole tablets, Lixiana tablets may be crushed and mixed with water or apple pure and immediately administered orally (see section 5.2).

Alternatively, Lixiana tablets may be crushed and suspended in a small amount of water and immediately delivered through a nasogastric tube or gastric feeding tube after which it should be flushed with water (see section 5.2). Crushed Lixiana tablets are stable in water and apple puree for up to 4 hours.

4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

Clinically significant active bleeding.

Hepatic disease associated with coagulopathy and clinically relevant bleeding risk.

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.

Uncontrolled severe hypertension.

Concomitant treatment with any other anticoagulants e.g. UFH, LMWH (enoxaparin, dalteparin, etc.), heparin derivatives (fondaparinux, etc.), oral anticoagulants (warfarin, dabigatran etexilate, rivaroxaban, apixaban etc.) except under specific circumstances of switching oral anticoagulant therapy (see section 4.2) or when UFH is given at doses necessary to maintain an open central venous or arterial catheter (see section 4.5).

Pregnancy and breast-feeding (see section 4.6).

4.4 Special warnings and precautions for use

Edoxaban 15 mg is not indicated as monotherapy, as it may result in decreased efficacy. It is only indicated in the process of switching from edoxaban 30 mg (patients with one or more clinical factors for increased exposure; see table 1) to VKA, together with an appropriate VKA dose (see table 2, section 4.2).

Haemorrhagic risk

Edoxaban increases the risk of bleeding and can cause serious, potentially fatal bleeding. Edoxaban, like other anticoagulants, is recommended to be used with caution in patients with increased risk of bleeding. Edoxaban administration should be discontinued if severe haemorrhage occurs (see sections 4.8 and 4.9).

In the clinical studies mucosal bleedings (e.g. epistaxis, gastrointestinal, genitourinary) and anaemia were seen more frequently during long term edoxaban treatment compared with VKA treatment. Thus, in addition to adequate clinical surveillance, laboratory testing of haemoglobin/haematocrit could be of value to detect occult bleeding, as judged to be appropriate.

Several sub-groups of patients, as detailed below, are at increased risk of bleeding. These patients are to be carefully monitored for signs and symptoms of bleeding complications and anaemia after initiation of treatment (see section 4.8). Any unexplained fall in haemoglobin or blood pressure should lead to a search for a bleeding site.

The anticoagulant effect of edoxaban cannot be reliably monitored with standard laboratory testing. A specific anticoagulant reversal agent for edoxaban is not available (see section 4.9).

Haemodialysis does not significantly contribute to edoxaban clearance (see section 5.2).

Elderly

The co-administration of edoxaban with acetylsalicylic acid (ASA) in elderly patients should be used cautiously because of a potentially higher bleeding risk (see section 4.5).

Renal impairment

The plasma area under the curve (AUC) for subjects with mild (CrCl > 50 - 80 mL/min), moderate (CrCl 30 - 50 mL/min) and severe (CrCl < 30 mL/min but not undergoing dialysis) renal impairment was increased by 32%, 74%, and 72%, respectively, relative to subjects with normal renal function (see section 4.2 for dose reduction).

In patients with end stage renal disease or on dialysis, Lixiana is not recommended (see sections 4.2 and 5.2).

Renal function in NVAF

A trend towards decreasing efficacy with increasing CrCl was observed for edoxaban compared to well-managed warfarin (see section 5.1 for ENGAGE AF-TIMI 48 and additional data from E314 and ETNA-AF).

Edoxaban should be used in patients with NVAF and high CrCl only after a careful evaluation of the individual thromboembolic and bleeding risk.

Assessment of renal function: CrCl should be monitored at the beginning of the treatment in all patients and afterwards when clinically indicated (see section 4.2).

Hepatic impairment

Edoxaban is not recommended in patients with severe hepatic impairment (see sections 4.2 and 5.2).

Edoxaban should be used with caution in patients with mild or moderate hepatic impairment (see section 4.2).

Patients with elevated liver enzymes (ALT/AST > 2 x ULN) or total bilirubin \geq 1.5 x ULN were excluded in clinical studies. Therefore edoxaban should be used with caution in this population (see sections 4.2 and 5.2). Prior to initiating edoxaban, liver function testing should be performed. Periodic hepatic monitoring is recommended for patients on edoxaban treatment beyond 1 year.

Discontinuation for surgery and other interventions

If anticoagulation must be discontinued to reduce the risk of bleeding with surgical or other procedures, edoxaban should be stopped as soon as possible and preferably at least 24 hours before the procedure.

In deciding whether a procedure should be delayed until 24 hours after the last dose of edoxaban, the increased risk of bleeding should be weighed against the urgency of the intervention. Edoxaban should be restarted after the surgical or other procedures as soon as adequate haemostasis has been established, noting that the time to onset of the edoxaban anticoagulant therapeutic effect is 1-2 hours. If oral medicinal products cannot be taken during or after surgical intervention, consider administering a parenteral anticoagulant and then switch to oral once daily edoxaban (see section 4.2).

Interaction with other medicinal products affecting haemostasis

Concomitant use of medicinal products affecting haemostasis may increase the risk of bleeding. These include ASA, P2Y₁₂ platelet inhibitors, other antithrombotic agents, fibrinolytic therapy, selective serotonin reuptake inhibitors (SSRIs) or serotonin norepinephrine reuptake inhibitors (SNRIs), and chronic nonsteroidal anti-inflammatory drugs (NSAIDs) (see section 4.5).

Prosthetic heart valves and moderate to severe mitral stenosis

Edoxaban has not been studied in patients with mechanical heart valves, in patients during the first 3 months after implantation of a bioprosthetic heart valve, with or without atrial fibrillation, or in patients with moderate to severe mitral stenosis. Therefore, use of edoxaban is not recommended in these patients.

<u>Haemodynamically unstable PE patients or patients who require thrombolysis or pulmonary</u> embolectomy

Edoxaban is not recommended as an alternative to UFH in patients with pulmonary embolism who are haemodynamically unstable or may receive thrombolysis or pulmonary embolectomy since the safety and efficacy of edoxaban have not been established in these clinical situations.

Patients with active cancer

Efficacy and safety of edoxaban in the treatment and/or prevention of VTE in patients with active cancer have not been established.

Patients with antiphospholipid syndrome

Direct acting oral anticoagulants (DOACs) including edoxaban are not recommended for patients with a history of thrombosis who are diagnosed with antiphospholipid syndrome. In particular for patients that are triple positive (for lupus anticoagulant, anticardiolipin antibodies, and anti-beta 2-glycoprotein I antibodies), treatment with DOACs could be associated with increased rates of recurrent thrombotic events compared with vitamin K antagonist therapy.

Laboratory coagulation parameters

Although treatment with edoxaban does not require routine monitoring, the effect on anticoagulation can be estimated by a calibrated quantitative anti-Factor Xa (anti-FXa) assay which may help to inform clinical decisions in particular situations as, e.g. overdose and emergency surgery (see also section 5.2).

Edoxaban prolongs standard clotting tests such as prothrombin time (PT), INR, and activated partial thromboplastin time (aPTT) as a result of Factor Xa (FXa) inhibition. Changes observed in these clotting tests at the expected therapeutic dose are, however, small, subject to a high degree of variability, and not useful in monitoring the anticoagulation effect of edoxaban.

4.5 Interaction with other medicinal products and other forms of interaction

Edoxaban is predominantly absorbed in the upper gastrointestinal (GI) tract. Thus, medicinal products or disease conditions that increase gastric emptying and gut motility have the possibility of reducing edoxaban dissolution and absorption.

P-gp inhibitors

Edoxaban is a substrate for the efflux transporter P-gp. In pharmacokinetic (PK) studies, concomitant administration of edoxaban with the P-gp inhibitors ciclosporin, dronedarone, erythromycin, ketoconazole, quinidine, or verapamil resulted in increased plasma concentrations of edoxaban. Concomitant use of edoxaban with ciclosporin, dronedarone, erythromycin, or ketoconazole requires dose reduction to 30 mg once daily. Concomitant use of edoxaban with quinidine, verapamil, or amiodarone does not require dose reduction based on clinical data (see section 4.2). The use of edoxaban with other P-gp inhibitors including human immunodeficiency virus (HIV) protease inhibitors has not been studied.

Edoxaban 30 mg once daily must be administered during concomitant use with the following P-gp inhibitors:

- *Ciclosporin:* Concurrent administration of a single dose of ciclosporin 500 mg with a single dose of edoxaban 60 mg increased edoxaban AUC and maximum serum concentration (C_{max}) by 73% and 74%, respectively.
- *Dronedarone:* Dronedarone 400 mg twice daily for 7 days with a single concomitant dose of edoxaban 60 mg on day 5 increased edoxaban AUC and C_{max} by 85% and 46%, respectively.
- *Erythromycin:* Erythromycin 500 mg four times daily for 8 days with a single concomitant dose of edoxaban 60 mg on day 7 increased the edoxaban AUC and C_{max} by 85% and 68%, respectively.
- *Ketoconazole*: Ketoconazole 400 mg once daily for 7 days with a single concomitant dose of edoxaban 60 mg on day 4, increased edoxaban AUC and C_{max} by 87% and 89%, respectively.

Edoxaban 60 mg once daily is recommended during concomitant use with the following P-gp inhibitors:

- Quinidine: Quinidine 300 mg once daily on days 1 and 4 and three times daily on days 2 and 3, with a single concomitant dose of edoxaban 60 mg on day 3, increased edoxaban AUC over 24 hours by 77% and C_{max} by 85%, respectively.
- *Verapamil:* Verapamil 240 mg once daily for 11 days with a single concomitant dose of edoxaban 60 mg on day 10 increased the edoxaban AUC and C_{max} by approximately 53%.
- Amiodarone: Co-administration of amiodarone 400 mg once daily with edoxaban 60 mg once daily increased AUC by 40% and C_{max} by 66%. This was not considered clinically significant. In ENGAGE AF-TIMI 48 study in NVAF, efficacy and safety results were similar for subjects with and without concomitant amiodarone use.
- *Clarithromycin:* Clarithromycin (500 mg twice daily) for 10 days with a single concomitant dose of edoxaban 60 mg on day 9 increased the edoxaban AUC and C_{max} by approximately 53% and 27%, respectively.

P-gp inducers

Co-administration of edoxaban with the P-gp inducer rifampicin led to a decrease in mean edoxaban AUC and a shortened half-life, with possible decreases in its pharmacodynamic effects. The concomitant use of edoxaban with other P-gp inducers (e.g. phenytoin, carbamazepine, phenobarbital or St. John's Wort) may lead to reduced edoxaban plasma concentrations. Edoxaban should be used with caution when co-administered with P-gp inducers.

P-gp substrates

Digoxin

Edoxaban 60 mg once daily on days 1 to 14 with coadministration of multiple daily doses of digoxin 0.25 mg twice daily (days 8 and 9) and 0.25 mg once daily (days 10 to 14) increased the C_{max} of edoxaban by 17%, with no significant effect on AUC or renal clearance at steady state. When the effects of edoxaban on digoxin PK were also examined, the C_{max} of digoxin increased by approximately 28% and AUC by 7%. This was not considered clinically relevant. No dose modification is necessary when edoxaban is administered with digoxin.

Anticoagulants, antiplatelets, NSAIDs and SSRIs/SNRIs

Anticoagulants

Co-administration of edoxaban with other anticoagulants is contraindicated due to increased risk of bleeding (see section 4.3).

ASA

Co-administration of ASA (100 mg or 325 mg) and edoxaban increased bleeding time relative to either medicinal product alone. Co-administration of high dose ASA (325 mg) increased the steady state C_{max} and AUC of edoxaban by 35% and 32%, respectively. The concomitant chronic use of high dose ASA (325 mg) with edoxaban is not recommended. Concomitant administration of higher doses than 100 mg ASA should only be performed under medical supervision.

In clinical studies concomitant use of ASA (low dose \leq 100 mg/day), other antiplatelet agents, and thienopyridines was permitted and resulted in approximately a 2-fold increase in major bleeding in comparison with no concomitant use, although to a similar extent in the edoxaban and warfarin groups (see section 4.4). Co-administration of low dose ASA (\leq 100 mg) did not affect the peak or total exposure of edoxaban either after single dose or at steady-state.

Edoxaban can be co-administered with low dose ASA ($\leq 100 \text{ mg/day}$).

Platelet inhibitors

In ENGAGE AF-TIMI 48 concomitant use of thienopyridines (e.g. clopidogrel) monotherapy was permitted and resulted in increased clinically relevant bleeding although with a lower risk of bleeding on edoxaban compared to warfarin (see section 4.4).

There is very limited experience on the use of edoxaban with dual antiplatelet therapy or fibrinolytic agents.

NSAIDs

Co-administration of naproxen and edoxaban increased bleeding time relative to either medicinal product alone. Naproxen had no effect on the C_{max} and AUC of edoxaban. In clinical studies, co-administration of NSAIDs resulted in increased clinically relevant bleeding. Chronic use of NSAIDs with edoxaban is not recommended.

SSRIs/SNRIs

As with other anticoagulants the possibility may exist that patients are at increased risk of bleeding in case of concomitant use with SSRIs or SNRIs due to their reported effect on platelets (see section 4.4).

Effect of edoxaban on other medicinal products

Edoxaban increased the C_{max} of concomitantly administered digoxin by 28%; however, the AUC was not affected. Edoxaban had no effect on the C_{max} and AUC of quinidine.

Edoxaban decreased the C_{max} and AUC of concomitantly administered verapamil by 14% and 16%, respectively.

4.6 Fertility, pregnancy and lactation

Women of childbearing potential

Women of childbearing potential should avoid becoming pregnant during treatment with edoxaban.

Pregnancy

Safety and efficacy of edoxaban have not been established in pregnant women. Studies in animals have shown reproductive toxicity (see section 5.3). Due to the potential reproductive toxicity, the intrinsic risk of bleeding and the evidence that edoxaban passes the placenta, Lixiana is contraindicated during pregnancy (see section 4.3).

Breast-feeding

Safety and efficacy of edoxaban have not been established in breast-feeding women. Data from animals indicate that edoxaban is secreted into breast milk. Therefore Lixiana is contraindicated during breast-feeding (see section 4.3). A decision must be made whether to discontinue breast-feeding or to discontinue/abstain from therapy.

Fertility

No specific studies with edoxaban in human beings have been conducted to evaluate effects on fertility. In a study on male and female fertility in rats no effects were seen (see section 5.3).

4.7 Effects on ability to drive and use machines

Lixiana has no or negligible influence on the ability to drive and use machines.

4.8 Undesirable effects

Summary of the safety profile

The safety profile of edoxaban is based on two Phase 3 studies (21,105 patients with NVAF and 8,292 patients with VTE (DVT and PE)), and from post-authorisation experience.

The most commonly reported adverse reactions associated with edoxaban treatment are epistaxis (7.7%), haematuria (6.9%) and anaemia (5.3%).

Bleeding can occur at any site and may be severe and even fatal (see section 4.4).

Tabulated list of adverse reactions

Table 3 provides the list of adverse reactions from the two pivotal Phase 3 studies in patients with VTE and NVAF combined for both indications and adverse drug reactions identified in the post-marketing setting. The adverse reactions are classified according to the MedDRA system organ class (SOC) and frequency, using the following convention: very common ($\geq 1/10$), common ($\geq 1/100$) to < 1/10), uncommon ($\geq 1/1,000$ to < 1/10), rare ($\geq 1/10,000$ to < 1/1,000), very rare (< 1/10,000) and not known (cannot be estimated from the available data).

Table 3: List of adverse reactions for NVAF and VTE

System organ class	Frequency
Blood and lymphatic system disorders	1 2
Anaemia	Common
Thrombocytopenia	Uncommon
Immune system disorders	·
Hypersensitivity	Uncommon
Anaphylactic reaction	Rare
Allergic oedema	Rare
Nervous system disorders	
Dizziness	Common
Headache	Common
Intracranial haemorrhage (ICH)	Uncommon
Subarachnoid haemorrhage	Rare
Eye disorders	
Conjunctival/scleral haemorrhage	Uncommon
Intraocular haemorrhage	Uncommon
Cardiac disorders	
Pericardial haemorrhage	Rare
Vascular disorders	
Other haemorrhage	Uncommon
Respiratory, thoracic and mediastinal disorders	
Epistaxis	Common
Haemoptysis	Uncommon
Gastrointestinal disorders	
Abdominal pain	Common
Lower GI haemorrhage	Common
Upper GI haemorrhage	Common
Oral/pharyngeal haemorrhage	Common
Nausea	Common
Retroperitoneal haemorrhage	Rare
Hepatobiliary disorders	
Blood bilirubin increased	Common
Gammaglutamyltransferase increased	Common
Blood alkaline phosphatase increased	Uncommon

System organ class	Frequency						
Transaminases increased	Uncommon						
Skin and subcutaneous tissue disorders							
Cutaneous soft tissue haemorrhage	Common						
Rash	Common						
Pruritus	Common						
Urticaria	Uncommon						
Musculoskeletal and connective tissue disorders	·						
Intramuscular haemorrhage (no compartment syndrome)	Rare						
Intra-articular haemorrhage	Rare						
Renal and urinary disorders							
Macroscopic haematuria/urethral haemorrhage	Common						
Anticoagulant-related nephropathy	Not known						
Reproductive system and breast disorders							
Vaginal haemorrhage ¹	Common						
General disorders and administration site conditions							
Puncture site haemorrhage	Common						
Investigations							
Liver function test abnormal	Common						
Injury, poisoning and procedural complications							
Surgical site haemorrhage	Uncommon						
Subdural haemorrhage	Rare						
Procedural haemorrhage	Rare						

¹ Reporting rates are based on the female population in clinical studies. Vaginal bleeds were reported commonly in women under the age of 50 years, while it was uncommon in women over the age of 50 years.

Description of selected adverse reactions

Haemorrhagic anaemia

Due to the pharmacological mode of action, the use of edoxaban may be associated with an increased risk of occult or overt bleeding from any tissue or organ which may result in post haemorrhagic anaemia. The signs, symptoms, and severity (including fatal outcome) will vary according to the location and degree or extent of the bleeding and/or anaemia (see section 4.9). In the clinical studies mucosal bleedings (e.g. epistaxis, gastrointestinal, genitourinary) and anaemia were seen more frequently during long term edoxaban treatment compared with VKA treatment. Thus, in addition to adequate clinical surveillance, laboratory testing of haemoglobin/haematocrit could be of value to detect occult bleeding, as judged to be appropriate. The risk of bleedings may be increased in certain patient groups e.g. those patients with uncontrolled severe arterial hypertension and/or on concomitant treatment affecting haemostasis (see section 4.4). Menstrual bleeding may be intensified and/or prolonged. Haemorrhagic complications may present as weakness, paleness, dizziness, headache or unexplained swelling, dyspnoea, and unexplained shock.

Known complications secondary to severe bleeding such as compartment syndrome and renal failure due to hypoperfusion, or anticoagulant-related nephropathy have been reported for edoxaban. Therefore, the possibility of haemorrhage is to be considered in evaluating the condition in any anticoagulated patient.

Paediatric population

The safety of edoxaban was evaluated in two Phase 3 studies (Hokusai VTE PEDIATRICS and ENNOBLE-ATE) in paediatric patients from birth to less than 18 years of age with VTE (286 patients,

145 patients treated with edoxaban) and cardiac diseases at risk of thrombotic events (167 patients, 109 patients treated with edoxaban). Overall, the safety profile in children was similar as in the adult patient population (see Table 3). In total, 16.6% of paediatric patients treated with edoxaban for VTE experienced adverse reactions.

Reporting of suspected 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 via the national reporting system listed in Appendix V.

4.9 Overdose

Overdose with edoxaban may lead to haemorrhage. Experience with overdose cases is very limited.

A specific antidote antagonising the pharmacodynamic effect of edoxaban is not available.

Early administration of activated charcoal may be considered in case of edoxaban overdose to reduce absorption. This recommendation is based on standard treatment of medicinal product overdose and data available with similar compounds, as the use of activated charcoal to reduce absorption of edoxaban has not been specifically studied in the edoxaban clinical programme.

Management of bleeding

Should a bleeding complication arise in a patient receiving edoxaban, the next edoxaban administration should be delayed or treatment should be discontinued as appropriate. Edoxaban has a half-life of approximately 10 to 14 hours (see section 5.2). Management should be individualised according to the severity and location of the haemorrhage. Appropriate symptomatic treatment could be used as needed, such as mechanical compression (e.g. for severe epistaxis), surgical haemostasis with bleeding control procedures, fluid replacement and haemodynamic support, blood products (packed red cells or fresh frozen plasma, depending on associated anaemia or coagulopathy) or platelets.

For life-threatening bleeding that cannot be controlled with the measures such as transfusion or haemostasis, the administration of a 4-factor prothrombin complex concentrate (PCC) at 50 IU/kg has been shown to reverse the effects of edoxaban 30 minutes after completing the infusion.

Recombinant factor VIIa (r-FVIIa) can also be considered. However, there is limited clinical experience with the use of this product in individuals receiving edoxaban.

Depending on local availability, a consultation with a coagulation expert should be considered in case of major bleedings.

Protamine sulfate and vitamin K are not expected to affect the anticoagulant activity of edoxaban.

There is no experience with antifibrinolytic agents (tranexamic acid, aminocaproic acid) in individuals receiving edoxaban. There is neither scientific rationale for benefit nor experience with the use of systemic haemostatics (desmopressin, aprotinin) in individuals receiving edoxaban. Due to the high plasma protein binding edoxaban is not expected to be dialysable.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Antithrombotic agents, direct factor Xa inhibitors; ATC code: B01AF03

Mechanism of action

Edoxaban is a highly selective, direct and reversible inhibitor of FXa, the serine protease located in the final common pathway of the coagulation cascade. Edoxaban inhibits free FXa, and prothrombinase activity. Inhibition of FXa in the coagulation cascade reduces thrombin generation, prolongs clotting time and reduces the risk of thrombus formation.

Pharmacodynamic effects

Edoxaban produces rapid onset of pharmacodynamic effects within 1 - 2 hours, which corresponds with peak edoxaban exposure (C_{max}). The pharmacodynamic effects measured by anti-FXa assay are predictable and correlate with the dose and the concentration of edoxaban. As a result of FXa inhibition, edoxaban also prolongs clotting time in tests such as PT, and aPTT. Changes observed in these clotting tests are expected at the therapeutic dose, however, these changes are small, subject to a high degree of variability, and not useful in monitoring the anticoagulation effect of edoxaban.

Effects of coagulation markers when switching from rivaroxaban, dabigatran, or apixaban to edoxaban

In clinical pharmacology studies, healthy subjects received rivaroxaban 20 mg once daily, dabigatran 150 mg twice daily, or apixaban 5 mg twice daily, followed by a single dose of edoxaban 60 mg on day 4. The effect on PT and other coagulation biomarkers (e.g. anti-FXa, aPTT) was measured. Following the switch to edoxaban on day 4 the PT was equivalent to day 3 of rivaroxaban and apixaban. For dabigatran higher aPTT activity was observed after edoxaban administration with prior dabigatran treatment compared to that after treatment with edoxaban alone. This is considered to be due to the carry-over effect of dabigatran treatment, however, this did not lead to a prolongation of bleeding time.

Based on these data, when switching from these anticoagulants to edoxaban, the first dose of edoxaban can be initiated at the time of the next scheduled dose of the previous anticoagulant (see section 4.2).

Clinical efficacy and safety

Prevention of stroke and systemic embolism

The edoxaban clinical programme for atrial fibrillation was designed to demonstrate the efficacy and safety of two dose groups of edoxaban compared to warfarin for the prevention of stroke and systemic embolism in subjects with NVAF and at moderate to high risk of stroke and systemic embolic events (SEE).

In the pivotal ENGAGE AF-TIMI 48 study (an event-driven, Phase 3, multi-centre, randomised, double-blind double-dummy parallel-group study), 21,105 subjects, with a mean congestive heart failure, hypertension, age ≥ 75 years, diabetes mellitus, stroke (CHADS₂) score of 2.8, were randomised to either edoxaban 30 mg once daily treatment group, or edoxaban 60 mg once daily treatment group or warfarin. Subjects in both edoxaban treatment groups had their dose halved if one or more of the following clinical factors were present: moderate renal impairment (CrCl 30-50 mL/min), low body weight (≤ 60 kg) or concomitant use of specific P-gp inhibitors (verapamil, quinidine, dronedarone).

The primary efficacy endpoint was the composite of stroke and SEE. Secondary efficacy endpoints included: composite of stroke, SEE, and cardiovascular (CV) mortality; major adverse cardiovascular event (MACE), which is the composite of non-fatal myocardial infarction (MI), non-fatal stroke, non-fatal SEE, and death due to CV cause or bleeding; composite of stroke, SEE, and all-cause mortality.

The median study medicinal product exposure for both the edoxaban 60 mg and 30 mg treatment groups was 2.5 years. The median study follow-up for both the edoxaban 60 mg and 30 mg treatment groups was 2.8 years. The median subject-year exposure was 15,471, and 15,840 for the 60 mg and 30 mg treatment groups, respectively; and the median subject-year follow-up was 19,191 and 19,216 for the 60 mg and 30 mg treatment groups, respectively.

In the warfarin group, the median TTR (time in therapeutic range, INR 2.0 to 3.0) was 68.4%.

The main analysis of efficacy was aimed to show the non-inferiority of edoxaban versus warfarin on first stroke or SEE that occurred during treatment or within 3 days from the last dose taken in the modified intention to treat (mITT) population. Edoxaban 60 mg was non-inferior to warfarin for the primary efficacy endpoint of stroke or SEE (upper limit of the 97.5% CI of the hazard ratio (HR) was below the pre-specified non-inferiority margin of 1.38) (Table 4).

Table 4: Strokes and SEE in the ENGAGE AF-TIMI 48 study - mITT, on-treatment

Primary endpoint	Edoxaban 60 mg (30 mg dose reduced) (N = 7,012)	Warfarin (N = 7,012)		
First stroke/SEE ^a				
n	182	232		
Event rate (%/yr) ^b	1.18	1.50		
HR (97.5% CI)	0.79 (0.63, 0.99)			
p-value for non-inferiority ^c	< 0.0001			
First ischaemic stroke				
n	135	144		
Event rate (%/yr) ^b	0.87	0.93		
HR (95% CI)	0.94 (0.75, 1.19)			
First haemorrhagic stroke				
n	40	76		
Event rate (%/yr) ^b	0.26	0.49		
HR (95% CI)	0.53 (0.36, 0.78)			
First SEE				
n (%/yr) ^a	8 (0.05)	13 (0.08)		
HR (95% CI)	0.62 (0.26, 1.50)			

Abbreviations: HR = hazard ratio versus warfarin, CI = confidence interval, n = number of events, mITT = modified intent to treat, N = number of subjects in mITT population, SEE = systemic embolic event, vr = year.

During the overall study period in the ITT population (analysis set to show superiority), adjudicated stroke or SEE occurred in 296 subjects in the edoxaban 60 mg group (1.57% per year), and 337 subjects in the warfarin group (1.80% per year). Compared to warfarin-treated subjects, the HR in the edoxaban 60 mg group was 0.87 (99% CI: 0.71, 1.07, p = 0.08 for superiority).

In subgroup analyses, for subjects in the 60 mg treatment group who were dose reduced to 30 mg in the ENGAGE AF-TIMI 48 study (for body weight \leq 60 kg, moderate renal impairment, or concomitant use of P-gp inhibitors), the event rate was: 2.29% per year for the primary endpoint, compared to the event rate of 2.66% per year for the matching subjects in the warfarin group [HR (95% CI): 0.86 (0.66, 1.13)].

The efficacy results for pre-specified major subgroups (with dose reduction as required), including age, body weight, gender, status of renal function, prior stroke or TIA, diabetes and P-gp inhibitors were generally consistent with the primary efficacy results for the overall population studied in the trial.

^a A subject can be represented in multiple rows.

^b The event rate (%/yr) is calculated as number of events/subject-year exposure.

^c The two-sided p-value is based on the non-inferiority margin of 1.38.

The HR (edoxaban 60 mg vs. warfarin) for the primary endpoint in the centres with a lower average time of INR in the therapeutic range (INR TTR) for warfarin was 0.73 - 0.80 for the lowest 3 quartiles (INR TTR \leq 57.7% to \leq 73.9%). It was 1.07 in centres with the best control of warfarin therapy (4th quartile with \geq 73.9% of INR values in the therapeutic range).

There was a statistically significant interaction between the effect of edoxaban versus warfarin on the main study outcome (stroke/SEE) and renal function (p-value 0.0042; mITT, overall study period).

Table 5 shows ischaemic strokes/SEE by CrCl category in NVAF patients in ENGAGE AF-TIMI 48. There is a decreasing event rate at increasing CrCl in both treatment groups.

Table 5: Number of ischaemic strokes/SEE by CrCl category in the ENGAGE AF-TIMI 48, mITT analysis set overall study

CrCl subgroup	F	Edoxaban 60 mg Warfarin (N = 7,012) (N = 7,012)					
(mL/min)	n	Number of events	Event rate (%/year)	n	Number of events	Event rate (%/year)	HR (95% CI)
\geq 30 to \leq 50	1,302	63	1.89	1,305	67	2.05	0.93 (0.66, 1.31)
$> 50 \text{ to} \le 70$	2,093	85	1.51	2,106	95	1.70	0.88 (0.66, 1.18)
$> 70 \text{ to} \le 90$	1,661	45	0.99	1,703	50	1.08	0.92 (0.61, 1.37)
$> 90 \text{ to} \le 110$	927	27	1.08	960	26	0.98	1.10 (0.64, 1.89)
$> 110 \text{ to} \le 130$	497	14	1.01	469	10	0.78	1.27 (0.57, 2.85)
> 130	462	10	0.78	418	3	0.25	*

Abbreviations: CrCl = creatinine clearance; N = number of subjects in mITT population overall study period; mITT = modified intent to treat; n = number of patients in subgroup; HR = hazard ratio versus warfarin; CI = confidence interval.

Within renal function subgroups, results for the secondary efficacy endpoints were consistent with those for the primary endpoint.

Superiority testing was performed on the ITT overall study period.

Stroke and SEE occurred in fewer subjects in the edoxaban 60 mg treatment group than in the warfarin group (1.57% and 1.80% per year, respectively), with a HR of 0.87 (99% CI: 0.71, 1.07, p = 0.0807 for superiority).

The pre-specified composite endpoints for the comparison of the edoxaban 60 mg treatment group to warfarin for stroke, SEE, and CV mortality HR (99% CI) was 0.87 (0.76, 0.99), MACE 0.89 (0.78, 1.00), and stroke, SEE, and all-cause mortality 0.90 (0.80, 1.01).

The results for all-cause mortality (adjudicated deaths) in the ENGAGE AF-TIMI 48 study were 769 (3.99% per year) for subjects taking edoxaban 60 mg (30 mg dose reduced) as opposed to 836 (4.35% per year) for warfarin [HR (95% CI): 0.91 (0.83, 1.01)].

All-cause mortality (adjudicated deaths) per renal subgroups (edoxaban vs. warfarin): CrCl 30 to \leq 50 mL/min [HR (95% CI): 0.81 (0.68, 0.97)]; CrCl \geq 50 to \leq 80 mL/min [HR (95% CI): 0.87 (0.75, 1.02)]; CrCl \geq 80 mL/min [HR (95% CI): 1.15 (0.95, 1.40)].

Edoxaban 60 mg (30 mg dose reduced) resulted in a lower rate of cardiovascular mortality compared to warfarin [HR (95% CI): 0.86 (0.77, 0.97)].

Adjudicated efficacy cardiovascular mortality per renal subgroups (edoxaban vs. warfarin): CrCl 30 to \leq 50 mL/min [HR (95% CI): 0.80 (0.65, 0.99)]; CrCl \geq 50 to < 80 mL/min [HR (95% CI): 0.75 (0.62, 0.90)]; CrCl \geq 80 mL/min [HR (95% CI): 1.16 (0.92, 1.46)].

The primary safety endpoint was major bleeding.

^{*}HR not computed if number of events < 5 in one treatment group.

There was a significant risk reduction in the edoxaban 60 mg treatment group compared with the warfarin group in major bleeding (2.75%, and 3.43% per year, respectively) [HR (95% CI): 0.80 (0.71, 0.91); p = 0.0009], ICH (0.39%, and 0.85% per year, respectively) [HR (95% CI): 0.47 (0.34, 0.63); p < 0.0001], and other types of bleeding (Table 6).

The reduction in fatal bleeds was also significant for the edoxaban 60 mg treatment group compared with the warfarin group (0.21%, and 0.38%) [HR (95% CI): 0.55 (0.36, 0.84); p = 0.0059 for superiority], primarily because of the reduction in fatal ICH bleeds [HR (95% CI): 0.58 (0.35, 0.95); p = 0.0312].

Table 6: Bleeding events in ENGAGE AF-TIMI 48 study - safety analysis on-treatment

, , , , , , , , , , , , , , , , , , ,	Edoxaban 60 mg (30 mg dose reduced)	Warfarin (N = 7,012)		
Major bleeding	(N = 7,012)			
n	418	524		
Event rate (%/yr) ^a	2.75	3.43		
HR (95% CI)	0.80 (0.71, 0.91)			
p-value	0.0009			
ICH ^b				
n	61	132		
Event rate (%/yr) ^a	0.39	0.85		
HR (95% CI)	0.47 (0.34, 0.63)			
Fatal bleeding				
n	32	59		
Event rate (%/yr) ^a	0.21	0.38		
HR (95% CI)	0.55 (0.36, 0.84)			
CRNM Bleeding				
n	1,214	1,396		
Event rate (%/yr) ^a	8.67	10.15		
HR (95% CI)	0.86 (0.80, 0.93)			
Any confirmed bleeding ^c				
n	1,865	2,114		
Event rate (%/yr) ^a	14.15	16.40		
HR (95% CI)	0.87 (0.82, 0.92)			

Abbreviations: ICH = intracranial haemorrhage, HR = hazard ratio versus warfarin, CI = confidence interval, CRNM = clinically relevant non-major, n = number of subjects with events, N = number of subjects in safety population, yr = year.

Note: A subject can be included in multiple sub-categories if he/she had an event for those categories. The first event of each category is included in the analysis.

Tables 7, 8 and 9 show major, fatal and intracranial bleedings, respectively, by CrCl category in NVAF patients in ENGAGE AF-TIMI 48. There is a decreasing event rate at increasing CrCl in both treatment groups.

^a The event rate (%/yr) is calculated as number of events/subject-year exposure.

^b ICH includes primary haemorrhagic stroke, subarachnoid haemorrhage, epi-/subdural haemorrhage, and ischaemic stroke with major haemorrhagic conversion. All ICHs reported on the adjudicated cerebrovascular and non-intracranial bleed electronic case report forms (eCRF) confirmed by the adjudicators are included in ICH counts.

^c 'Any confirmed bleeding includes those that the adjudicator defined as clinically overt.

Table 7: Number of major bleeding events by CrCl category in ENGAGE AF-TIMI 48, safety analysis on-treatment^a

CrCl subgroup	F	Edoxaban 60 mg (N = 7,012)			Warfarir (N = 7,012		
(mL/min)	n	Number of events	Event rate (%/year)	n	Number of events	Event rate (%/year)	HR (95% CI)
\geq 30 to \leq 50	1,302	96	3.91	1,305	128	5.23	0.75 (0.58, 0.98)
$> 50 \text{ to} \le 70$	2,093	148	3.31	2,106	171	3.77	0.88 (0.71, 1.10)
$> 70 \text{ to} \le 90$	1,661	108	2.88	1,703	119	3.08	0.93 (0.72, 1.21)
$> 90 \text{ to} \le 110$	927	29	1.33	960	56	2.48	0.54 (0.34, 0.84)
$> 110 \text{ to} \le 130$	497	20	1.70	469	24	2.14	0.79 (0.44, 1.42)
> 130	462	13	1.18	418	21	2.08	0.58 (0.29, 1.15)

Table 8: Number of fatal bleeding events by CrCl category in ENGAGE AF-TIMI 48, safety analysis on-treatment^a

CrCl subgroup	F	Edoxaban 6 (N = 7,012	_	Warfarin (N = 7,012)			
(mL/min)	n	Number of events	Event rate (%/year)	n	Number of events	Event rate (%/year)	HR (95% CI)
\geq 30 to \leq 50	1,302	9	0.36	1,305	18	0.72	0.51 (0.23, 1.14)
$> 50 \text{ to} \le 70$	2,093	8	0.18	2,106	23	0.50	0.35 (0.16, 0.79)
$> 70 \text{ to} \le 90$	1,661	10	0.26	1,703	9	0.23	1.14 (0.46, 2.82)
$> 90 \text{ to} \le 110$	927	2	0.09	960	3	0.13	*
$> 110 \text{ to} \le 130$	497	1	0.08	469	5	0.44	*
> 130	462	2	0.18	418	0	0.00	-*

Table 9: Number of intracranial bleeding events by CrCl category in ENGAGE AF-TIMI 48, safety analysis on-treatment^a

CrCl subgroup	F	Edoxaban 60 mg (N = 7,012)			Warfarir (N = 7,012		
(mL/min)	n	Number of events	Event rate (%/year)	n	Number of events	Event rate (%/year)	HR (95% CI)
\geq 30 to \leq 50	1,302	16	0.64	1,305	35	1.40	0.45 (0.25, 0.81)
$> 50 \text{ to} \le 70$	2,093	19	0.42	2,106	51	1.10	0.38 (0.22, 0.64)
$> 70 \text{ to} \le 90$	1,661	17	0.44	1,703	35	0.89	0.50 (0.28, 0.89)
$> 90 \text{ to} \le 110$	927	5	0.23	960	6	0.26	0.87 (0.27, 2.86)
$> 110 \text{ to} \le 130$	497	2	0.17	469	3	0.26	*
> 130	462	1	0.09	418	1	0.10	*

Abbreviations: N = number of subjects in mITT population overall study period; mITT = modified intent to treat; n = number of patients in subgroup; HR = hazard ratio versus warfarin; CI = confidence interval

In subgroup analyses, for subjects in the 60 mg treatment group who were dose reduced to 30 mg in the ENGAGE AF-TIMI 48 study for body weight \leq 60 kg, moderate renal impairment, or concomitant use of P-gp inhibitors, 104 (3.05% per year) of edoxaban 30 mg dose reduced subjects and 166 (4.85%)

^{*}HR not computed if number of events < 5 in one treatment group.

^a On-Treatment: Time from first dose of study medicinal product to last dose plus 3 days.

per year) of warfarin dose reduced subjects had a major bleeding event [HR (95% CI): 0.63 (0.50, 0.81)].

In the ENGAGE AF-TIMI 48 study there was a significant improvement in net clinical outcome (first stroke, SEE, major bleed, or all-cause mortality; mITT population, overall study period) in favour of edoxaban, HR (95% CI): 0.89 (0.83, 0.96); p = 0.0024, when edoxaban 60 mg treatment group was compared to warfarin.

Treatment of DVT, treatment of PE and prevention of recurrent DVT and PE (VTE)
The edoxaban clinical programme for VTE was designed to demonstrate the efficacy and safety of edoxaban in the treatment of DVT and PE, and the prevention of recurrent DVT and PE.

In the pivotal Hokusai-VTE study, 8,292 subjects were randomised to receive initial heparin therapy (enoxaparin or unfractionated heparin) followed by edoxaban 60 mg once daily or the comparator. In the comparator arm, subjects received initial heparin therapy concurrently with warfarin, titrated to a target INR of 2.0 to 3.0, followed by warfarin alone. The treatment duration was from 3 months up to 12 months, determined by the investigator based on the patient's clinical features.

The majority of edoxaban treated patients were Caucasians (69.6%) and Asians (21.0%); 3.8% were Black, and 5.3% were categorised as Other race.

The duration of therapy was at least 3 months for 3,718 (91.6%) edoxaban subjects versus 3,727 (91.4%) of warfarin subjects; at least 6 months for 3,495 (86.1%) of edoxaban subjects versus 3,491 (85.6%) of warfarin subjects; and 12 months for 1,643 (40.5%) edoxaban subjects versus 1,659 (40.4%) of warfarin subjects.

The primary efficacy endpoint was the recurrence of symptomatic VTE, defined as the composite of recurrent symptomatic DVT, non-fatal symptomatic PE and fatal PE in subjects during the 12-month study period. Secondary efficacy outcomes included the composite clinical outcome of recurrent VTE and all-cause mortality.

Edoxaban 30 mg once daily was used for subjects with one or more of the following clinical factors: moderate renal impairment (CrCl 30 - 50 mL/min); body weight \leq 60 kg; concomitant use of specific P-gp inhibitors.

In the Hokusai-VTE study (Table 10) edoxaban was demonstrated to be non-inferior to warfarin for the primary efficacy outcome, recurrent VTE, which occurred in 130 of 4,118 subjects (3.2%) in the edoxaban group versus 146 of 4,122 subjects (3.5%) in the warfarin group [HR (95% CI): 0.89 (0.70, 1.13); p < 0.0001 for non-inferiority]. In the warfarin group, the median TTR (INR 2.0 to 3.0) was 65.6%. For subjects presenting with PE (with or without DVT), 47 (2.8%) of edoxaban and 65 (3.9%) of warfarin subjects had a recurrent VTE [HR (95% CI): 0.73 (0.50, 1.06)].

Table 10: Efficacy results from the Hokusai-VTE study - mITT population, overall study period

Primary endpoint ^a	Edoxaban 60 mg (30 mg dose reduced) (N = 4,118)	Warfarin (N = 4,122)	Edoxaban vs Warfarin HR (95% CI) ^b p-value ^c
All subjects with symptomatic recurrent VTE ^c , n (%)	130 (3.2)	146 (3.5)	0.89 (0.70, 1.13) p-value < 0.0001 (non-inferiority)
PE with or without DVT	73 (1.8)	83 (2.0)	
Fatal PE or death where PE cannot be ruled out	24 (0.6)	24 (0.6)	
Non-fatal PE	49 (1.2)	59 (1.4)	
DVT only	57 (1.4)	63 (1.5)	

Abbreviations: CI = confidence interval; DVT = deep vein thrombosis; mITT = modified intent-to-treat; HR = Hazard ratio vs. warfarin; n = number of subjects with events; N = number of subjects in mITT population; PE = pulmonary embolism; VTE = venous thromboembolic events.

For the subjects who were dose reduced to 30 mg (predominantly low body weight or renal function) 15 (2.1%) edoxaban and 22 (3.1%) of warfarin subjects had a recurrent VTE [HR (95% CI): 0.69 (0.36, 1.34)].

The secondary composite endpoint of recurrent VTE and all-cause mortality occurred in 138 subjects (3.4%) in the edoxaban group and 158 subjects (3.9%) in the warfarin group [HR (95% CI): 0.87 (0.70, 1.10)].

The results for all-cause mortality (adjudicated deaths) in Hokusai-VTE were 136 (3.3%) for subjects taking edoxaban 60 mg (30 mg dose reduced) as opposed to 130 (3.2%) for warfarin.

In a pre-specified subgroup analysis of PE subjects 447 (30.6%) and 483 (32.2%) of edoxaban and warfarin treated subjects, respectively, were identified as having PE and N-terminal pro–B-type natriuretic peptide (NT-proBNP) \geq 500 pg/mL. The primary efficacy outcome occurred in 14 (3.1%) and 30 (6.2%) of edoxaban and warfarin subjects, respectively [HR (95% CI): 0.50 (0.26, 0.94)].

The efficacy results for pre-specified major subgroups (with dose reduction as required), including age, body weight, gender and status of renal function were consistent with the primary efficacy results for the overall population studied in the trial.

The primary safety endpoint was clinically relevant bleeding (major or clinically relevant non-major).

Table 11 summarises adjudicated bleeding events for the safety analysis set on-treatment period. There was a significant risk reduction in the edoxaban group compared with warfarin for the primary safety endpoint of clinically relevant bleeding, a composite of major bleeding or clinically relevant non-major (CRNM) bleeding, which occurred in 349 of 4,118 subjects (8.5%) in the edoxaban group and in 423 of 4,122 subjects (10.3%) in the warfarin group [HR (95% CI): 0.81 (0.71, 0.94); p = 0.004 for superiority].

^a The primary efficacy endpoint is adjudicated symptomatic recurrent VTE (i.e., the composite endpoint of DVT, non-fatal PE, and fatal PE).

b The HR, two-sided CI are based on the Cox proportional hazards regression model including treatment and the following randomisation stratification factors as covariates: presenting diagnosis (PE with or without DVT, DVT only), baseline risk factors (temporary factors, all others), and the need for 30 mg edoxaban/edoxaban placebo dose at randomisation (yes/no).

^c The p-value is for the pre-defined non-inferiority margin of 1.5.

Table 11: Bleeding events in Hokusai-VTE study - safety analysis on-treatment period^a

	Edoxaban 60 mg (30 mg dose reduced) (N = 4,118)	Warfarin (N = 4,122)
Clinically relevant bleeding		
(Major and CRNM) ^b , n (%)		
n	349 (8.5)	423 (10.3)
HR (95% CI)	0.81 (0.71, 0.94)	
p-value	0.004 (for superiority)	
Major bleeding n (%)		
n	56 (1.4)	66 (1.6)
HR (95% CI)	0.84 (0.59, 1.21)	
ICH fatal	0	6 (0.1)
ICH non-fatal	5 (0.1)	12 (0.3)
CRNM bleeding		
n	298 (7.2)	368 (8.9)
HR (95% CI)	0.80 (0.68, 0.93)	
All bleeding		
n	895 (21.7)	1,056 (25.6)
HR (95% CI)	0.82 (0.75, 0.90)	

Abbreviations: ICH = intracranial haemorrhage, HR = hazard ratio vs. warfarin; CI = confidence interval; N = number of subjects in safety population; n = number of events; CRNM = clinically relevant non-major

In subgroup analyses, for subjects who were dose reduced to 30 mg in the Hokusai-VTE study for body weight \leq 60 kg, moderate renal impairment, or concomitant use of P-gp inhibitors, 58 (7.9%) of edoxaban 30 mg dose reduced subjects and 92 (12.8%) of warfarin subjects had a major bleeding or CRNM event [HR (95%): 0.62 (0.44, 0.86)].

In the Hokusai-VTE study the net clinical outcome (recurrent VTE, major bleed, or all-cause mortality; mITT population, overall study period) HR (95% CI) was 1.00 (0.85, 1.18) when edoxaban was compared to warfarin.

Prevention of stroke and systemic embolism in NVAF patients with high CrCl (CrCl > 100 mL/min) A dedicated randomised, double-blind trial (E314) was conducted in 607 NVAF patients with high CrCl (CrCl > 100 mL/min as measured by the Cockcroft-Gault formula) with the primary aim to evaluate the PK/PD of an edoxaban 60 mg once daily vs 75 mg once daily regimen. In addition to the primary PK/PD endpoint, the study included the evaluation of clinical endpoints of stroke and bleeding over a 12-months treatment period.

An edoxaban dose of 75 mg QD in the high CrCl sub-group (> 100 mL/min) provided an ~25% increase in exposure as compared to an edoxaban dose of 60 mg QD as predicted.

The number of subjects experiencing the adjudicated composite endpoint of stroke/transient ischaemic attack (TIA)/systemic embolic event (SEE) efficacy events was limited and included 2 stroke events in the edoxaban 60 mg group (0.7%; 95% CI: 0.1% to 2.4%) and 3 stroke events in the edoxaban 75 mg group (1%; 95% CI: 0.2% to 2.9%).

Adjudicated major bleeding events occurred in 2 (0.7%; 95% CI: 0.1% to 2.4%) subjects in the edoxaban 60 mg group compared to 3 (1.0%; 95% CI: 0.2% to 2.9%) subjects in the edoxaban 75 mg

^a On-treatment period: time from first dose of study medicinal product to last dose plus 3 days.

^b Primary safety endpoint: clinically relevant bleeding (composite of major and clinically relevant non-major bleeding).

group. Of the 2 major bleeds in the edoxaban 60 mg group, one was in a critical area/organ (intraocular) and the other major bleed was an intramuscular bleed. Of the 3 major bleeds in the edoxaban 75 mg group, 2 occurred in a critical area/organ (intracerebral/ 1 fatal outcome) and 1 was an upper gastrointestinal (GI) bleed (life-threatening). There were also 9 (3%) clinically relevant non-major (CRNM) bleedings in the edoxaban 60 mg group and 7 (2.3%) CRNM bleedings in the edoxaban 75 mg group.

In addition to the E314 clinical trial, a prospective, multinational, multi-centre, post authorisation, observational study (ETNA-AF) was conducted in 10 European countries and has included 13,980 subjects. Within this population 1,826 had a CrCl > 100 ml/min and received edoxaban 60 mg in accordance with dosing criteria outlined in the SmPC. The annual rates of the composite of ischaemic stroke or systemic embolism were 0.39%/y, and major bleeding events occurred in 0.73%/y.

Given the totality of the data from ENGAGE AF, E314 and ETNA-AF, patients with NVAF and high CrCl treated with edoxaban 60 mg are expected to have an annual rate of ischaemic stroke/systemic embolism $\leq 1\%$. Increasing the dose above 60 mg in NVAF patients with high CrCl (> 100 mL/min) is not expected to provide more protection against stroke and can be associated with increased adverse events. As such, an edoxaban 60 mg once daily regimen is recommended in these patients after a careful evaluation of the individual thromboembolic and bleeding risk (see section 4.4.).

Patients undergoing cardioversion

A multicentre, prospective, randomised, open-label study with blinded endpoint evaluation (ENSURE-AF) was conducted which randomised 2199 subjects (oral anticoagulant naïve and pre-treated) with NVAF scheduled for cardioversion, to compare edoxaban 60 mg once daily with enoxaparin/warfarin to maintain a therapeutic INR of 2.0 to 3.0 (randomised 1:1), mean TTR on warfarin was 70.8%. A total of 2149 subjects were treated with either edoxaban (N = 1067) or enoxaparin/warfarin (N = 1082). Subjects in the edoxaban treatment group received 30 mg once daily if one or more of the following clinical factors were present: moderate renal impairment (CrCl 30 – 50 mL/min), low body weight (\leq 60 kg) or concomitant use of specific P-gp inhibitors. The majority of subjects in the edoxaban and warfarin groups had cardioversion performed (83.7% and 78.9%, respectively) or were auto-converted (6.6% and 8.6%, respectively). TEE-guided (within 3 days of initiation) or conventional cardioversion (at least 21 days of pre-treatment) was employed. Subjects were maintained on treatment for 28 days post cardioversion.

The primary efficacy outcome consisted of a composite of all stroke, SEE, MI and CV mortality. A total of 5 (0.5%, 95% CI 0.15% - 1.06%) events occurred in subjects in the edoxaban group (N = 1095) and 11 (1.0%, 95% CI 0.50% - 1.78%) events in the warfarin group (N = 1104); odds ratio (OR) 0.46 (95% CI 0.12 - 1.43); ITT analysis set overall study period with mean duration of 66 days.

The primary safety outcome was a composite of major and CRNM bleeding. A total of 16 (1.5%, 95% CI 0.86% - 2.42%) events occurred in subjects in the edoxaban (N = 1067) group and 11 (1.0%, 95% CI 0.51% - 1.81%) events in the warfarin (N = 1082) group; OR 1.48 (95% CI 0.64 - 3.55); safety analysis set on-treatment period.

This exploratory study showed low rates of major and CRNM bleeding and thromboembolism in the two treatment groups in the setting of cardioversion.

Paediatric population

The safety, efficacy, pharmacokinetics and pharmacodynamics of edoxaban in paediatric subjects from birth to 18 years of age with VTE and cardiac diseases at risk of thrombotic events were evaluated in two Phase 3 studies, Hokusai VTE PEDIATRICS and ENNOBLE-ATE (see section 4.2). The pivotal paediatric study, Hokusai VTE PEDIATRICS, is described below.

The pivotal study (Hokusai VTE PEDIATRICS) was a Phase 3, open-label, randomised, multi-centre, controlled study to evaluate the pharmacokinetics and pharmacodynamics of edoxaban and compare the efficacy and safety of edoxaban with standard of care (control group) anticoagulant therapy in

paediatric subjects from birth to less than 18 years of age with confirmed venous thromboembolism (VTE).

The primary efficacy endpoint was the composite endpoint of symptomatic recurrent venous thromboembolic disease, death as result of VTE, and no change or extension of thrombotic burden during the first 3-month period (intended duration of treatment was 6 to 12 weeks for paediatric patients from birth to less than 6 months of age).

The edoxaban doses tested in the Hokusai VTE PEDIATRICS were established according to age and weight. Dose reductions were recommended based on clinical factors, including renal function and concomitant use of P-gp inhibitors (Table 12).

Table 12: Edoxaban dose tested in the Hokusai VTE PEDIATRICS study

Age at Date of Consent	Body Weight	Dose (Tablet) ^a	Dose (Suspension) ^a	Dose Reduction ^b
12 to <18 yrs.	≥60 kg	60 mg	NA	45 mg
	\geq 30 and <60 kg	45 mg	NA	30 mg
	<5th percentile for age	30 mg	NA	NA
6 to <12 yrs.	<60 kg; dosed based on mg/kg	NA	1.2 mg/kg (maximum 45 mg)	0.8 mg/kg (maximum 45 mg)
2 to <6 yrs.	Dosed based on mg/kg	NA	1.4 mg/kg (maximum 45 mg)	0.7 mg/kg (maximum: 24 mg)
6 months to <2 yrs.	Dosed based on mg/kg	NA	1.5 mg/kg (maximum 45 mg)	0.75 mg/kg (maximum: 24 mg)
>28 days to <6 months	Dosed based on mg/kg	NA	0.8 mg/kg (maximum 12 mg)	0.4 mg/kg (maximum 6 mg)
Birth (38 weeks of gestation) to ≤28 days	Dosed based on mg/kg	NA	0.4 mg/kg (maximum 6 mg)	0.4 mg/kg (maximum 6 mg)

NA = not applicable; yrs. = years

A total of 290 subjects were randomised into the study: 147 in the edoxaban group and 143 in the standard of care control group, of which 286 subjects took at least one dose of study medication (mITT); 145 subjects in the edoxaban group and 141 subjects in the control group. Approximately half of the overall subjects were male (52.4%) and the majority of subjects treated were white (177 [61.9%] subjects). The mean weight was 45.35 kg and the mean BMI was 20.4 kg/m². In total, 167 (58.4%) subjects were in the 12 to <18 years cohort, 44 (15.4%) subjects were in the 6 to <12 years cohort, 31 (10.8%) subjects were in the 2 to <6 years cohort, 28 (9.8%) subjects were in the 6 months to <2 years cohort, and 16 (5.6%) subjects were in the 0 to <6 months cohort. A total of, 28 (19.3%) children in the edoxaban group and 31 (22.0%) children in the control group had a medical history of neoplasms. The type of index event was DVT with or without PE in 125 (86.2%) of 145 children of the edoxaban group and 121 (85.8%) of 141 children in the control group, while the remaining cases, 20 (13.8%) in the edoxaban group and 20 (14.2%) in the control group were PE without DVT. DVTs were most frequently localized in the lower extremities (50 (34.5%) and 44 (31.2%) cases in the

^a Subjects were instructed to take edoxaban (tablets or granules) orally once a day, at the same time every day, with or without food. Tablets were to be swallowed with a glass of water.

b based on clinical factors, including renal function (moderate-severe renal impairment with estimated glomerular filtration rate (eGFR) 10-20, 20-35, 30-50 mL/min/1.73m² for subjects aged >4 and ≤8 weeks, >8 weeks and ≤2 years, >2 and ≤12 years; eGFR 35-55 mL/min/1.73m² for boys >12 and <18 years; and eGFR 30-50 mL/min/1.73m² for girls >12 and <18 years) and concomitant use of P-gp inhibitors (e.g.: ciclosporin, dronedarone, erythromycin, ketoconazole).

edoxaban and control groups, respectively), upper extremities (22 (15.2%) vs 24 (17.0%)), and cerebral venous sinus (27 (18.6%) vs. 21 (14.9%)).

The HR for the edoxaban group versus the standard of care control group was 1.01 (95% CI: 0.59 to 1.72). The upper bound of the 95% CI (1.72) exceeded the predefined non-inferiority margin of 1.5, hence the non-inferiority of edoxaban versus standard of care was not confirmed (see Table 13).

Table 13: Adjudicated Composite Primary Efficacy Endpoint – Main Treatment Period (mITT Analysis Set)

	Edoxaban (N = 145)	Standard of care (N = 141)
Subjects with events (n, %)	26 (17.9)	31 (22.0)
Symptomatic recurrent VTE (n, %)	5 (3.4)	2 (1.4)
PE with or without DVT (n, %)	0	1 (0.7)
Fatal PE (n, %)	0	0
Nonfatal PE (n, %)	0	1(0.7)
DVT only (n, %)	5 (3.4)	1 (0.7)
Fatal DVT (n, %)	0	0
Nonfatal DVT (n, %)	4 (2.8)	0
Unexplained death which VTE cannot be ruled out (n, %)	1 (0.7)	1 (0.7)
No change or extension of thrombotic burden based on imaging (n, %)	21 (14.5)	29 (20.6)
Hazard ratio ^a	1.01	-
2-sided 95% CI for hazard ratio	(0.59, 1.72)	

CI = confidence interval; DVT = deep vein thrombosis; mITT = Modified Intent-to-Treat; PE = pulmonary embolism; VTE = venous thromboembolism.

Note: Adjudicated composite primary efficacy endpoint includes symptomatic recurrent VTE, death as a result of VTE, and no change or extension of thrombotic burden based on imaging.

Note: Main Treatment Period is defined as from randomization to Month 3 Visit + 3 days.

The primary safety endpoint was a combination of major and CRNM bleeding events, occurring during the Main Treatment Period (3 months + 3 days).

The safety results were comparable between the edoxaban and standard of care control groups. A total of 3 (2.1%) subjects in the edoxaban group and 5 (3.5%) subjects in the control group experienced at least 1 adjudicated confirmed major and CRNM bleeding event during the Main Treatment Period and On-Treatment [HR (95% CI): 0.60 (0.139, 2.597)].

5.2 Pharmacokinetic properties

Absorption

Edoxaban is absorbed with peak plasma concentrations within 1 - 2 hours following oral administration of edoxaban tablets. The absolute bioavailability is approximately 62%. Food increases peak exposure of edoxaban tablets to a varying extent, but has minimal effect on total exposure. Edoxaban was administered with or without food in the ENGAGE AF-TIMI 48 and the Hokusai-VTE

^a Edoxaban-to-standard of care hazard ratio.

studies as well as paediatric efficacy and safety studies. Edoxaban is poorly soluble at pH of 6.0 or higher. Co-administration of proton-pump inhibitors had no relevant impact on edoxaban exposure.

In a study with 30 healthy subjects, both mean AUC and C_{max} values for 60 mg edoxaban administered as a crushed tablet orally mixed in apple puree or via nasogastric tube suspended in water were bioequivalent to the intact tablet. Given the predictable, dose-proportional pharmacokinetic profile of edoxaban, the bioavailability results from this study are likely applicable to lower edoxaban doses.

Distribution

Disposition is biphasic. The volume of distribution is 107 (19.9) L mean (SD).

In vitro plasma protein binding is approximately 55%. There is no clinically relevant accumulation of edoxaban (accumulation ratio 1.14) with once daily dosing. Steady state concentrations are achieved within 3 days.

Biotransformation

Unchanged edoxaban is the predominant form in plasma. Edoxaban is metabolised via hydrolysis (mediated by carboxylesterase 1), conjugation or oxidation by CYP3A4/5 (< 10%). Edoxaban has three active metabolites, the predominant metabolite (M-4), formed by hydrolysis, is active and reaches less than 10% of the exposure of the parent compound in healthy subjects. Exposure to the other metabolites is less than 5%. Edoxaban is a substrate for the efflux transporter P-gp, but not a substrate for uptake transporters such as organic anion transporter polypeptide OATP1B1, organic anion transporters OAT1 or OAT3 or organic cation transporter OCT2. Its active metabolite is a substrate for OATP1B1.

Elimination

In healthy subjects, the total clearance is estimated as 22 (\pm 3) L/hour; 50% is renally cleared (11 L/hour). Renal clearance accounts for approximately 35% of the administered dose. Metabolism and biliary/intestinal excretion account for the remaining clearance. The $t_{1/2}$ for oral administration is 10 - 14 hours.

Linearity/non-linearity

Edoxaban displays approximately dose-proportional pharmacokinetics for doses of 15 mg to 60 mg in healthy subjects.

Special populations

Elderly

After taking renal function and body weight into account, age had no additional clinically significant effect on edoxaban pharmacokinetics in a population pharmacokinetic analysis of the pivotal Phase 3 study in NVAF (ENGAGE AF-TIMI 48).

Renal impairment

The plasma AUCs for subjects with mild (CrCl > 50 - 80 mL/min), moderate (CrCl 30 - 50 mL/min) and severe (CrCl < 30 mL/min but not undergoing dialysis) renal impairment were increased by 32%, 74%, and 72%, respectively, relative to subjects with normal renal function. In patients with renal impairment the metabolite profile changes and a higher quantity of active metabolites are formed. There is a linear correlation between edoxaban plasma concentration and anti-FXa activity regardless of renal function.

Subjects with ESRD undergoing peritoneal dialysis had 93% higher total exposure compared with healthy subjects.

Population PK modeling indicates that exposure approximately doubles in patients with severe renal impairment (CrCl 15 - 29 mL/min) relative to patients with normal renal function.

Table 14 below shows the edoxaban anti-FXa activity by CrCl category for each indication.

Table 14: Edoxaban anti-FXa activity by CrCl

Edoxaban dose	CrCl (mL/min)	Edoxaban Anti-FXa activity post-dose (IU/mL) ¹	Edoxaban Anti-FXa activity pre-dose (IU/mL) ²		
		Median [2.5 – 97.5% ra	nge]		
Prevention of stroke and systemic embolism: NVAF					
30 mg once daily	\geq 30 to \leq 50	2.92 [0.33 – 5.88]	$0.53 \\ [0.11 - 2.06]$		
60 mg once daily *	$> 50 \text{ to} \le 70$	4.52 [0.38 – 7.64]	0.83 [0.16 – 2.61]		
	$> 70 \text{ to} \le 90$	4.12 [0.19 – 7.55]	$0.68 \\ [0.05 - 2.33]$		
	> 90 to ≤ 110	3.82 [0.36 – 7.39]	0.60 [0.14 – 3.57]		
	$> 110 \text{ to} \le 130$	3.16 [0.28 – 6.71]	0.41 [0.15 – 1.51]		
	> 130	2.76 [0.12 – 6.10]	0.45 [0.00 – 3.10]		
Treatment of DVT,	treatment of PE an	d prevention of recurrent D	VT and PE (VTE)		
30 mg once daily	\geq 30 to \leq 50	2.21 [0.14 – 4.47]	0.22 [0.00 – 1.09]		
60 mg once daily *	$> 50 \text{ to} \le 70$	3.42 [0.19 – 6.13]	0.34 [0.00 – 3.10]		
	$> 70 \text{ to} \le 90$	2.97 [0.24 – 5.82]	0.24 [0.00 – 1.77]		
	> 90 to ≤ 110	2.82 [0.14 – 5.31]	0.20 [0.00 – 2.52]		
	$> 110 \text{ to} \le 130$	2.64 [0.13 – 5.57]	0.17 [0.00 – 1.86]		
	> 130	2.39 [0.10 – 4.92]	0.13 $[0.00 - 2.43]$		

^{*} Dose reduction to 30 mg for low body weight \le 60 kg or specific concomitant P-gp inhibitors

Although treatment with edoxaban does not require routine monitoring, the effect on anticoagulation can be estimated by a calibrated quantitative anti-FXa assay which may be useful in exceptional situations where knowledge of edoxaban exposure may help to inform clinical decisions, e.g. overdose and emergency surgery (see also section 4.4).

A 4 hour haemodialysis session reduced total edoxaban exposures by less than 9%.

Hepatic impairment

Patients with mild or moderate hepatic impairment exhibited comparable pharmacokinetics and pharmacodynamics to their matched healthy control group. Edoxaban has not been studied in patients with severe hepatic impairment (see section 4.2).

Gender

After accounting for body weight, gender had no additional clinically significant effect on edoxaban pharmacokinetics in a population pharmacokinetic analysis of the Phase 3 study in NVAF (ENGAGE AF-TIMI 48).

 $^{^{1}}$ Post-dose is equivalent to C_{max} (post-dose samples were drawn 1-3 hours after edoxaban administration)

² Pre-dose is equivalent to C_{min}

Ethnic origin

In a population pharmacokinetic analysis of the ENGAGE AF-TIMI 48 study, peak and total exposure in Asian patients and non-Asian patients were comparable.

Paediatric population

The pharmacokinetics of edoxaban was evaluated in 208 paediatric subjects across 3 clinical studies (Hokusai VTE PEDIATRICS, ENNOBLE-ATE, and a single-dose PK/PD study) using a population pharmacokinetic (PopPK) model. The pharmacokinetic data of 141 paediatric subjects enrolled in Hokusai VTE PEDIATRICS and ENNOBLE-ATE were included in the PopPK analysis. The exposure of edoxaban in paediatric subjects tended to be within the range of exposures observed in adult patients, but there was a 20-30% underexposure in adolescents aged 12 to <18 years compared to adults who received the edoxaban 60 mg tablets. In Hokusai VTE PEDIATRICS and ENNOBLE-ATE, the observed geometric mean trough exposures of edoxaban in the paediatric population were 7.8 ng/mL in subjects 0 to <6 months of age (N = 10), 8.6 ng/mL in subjects 6 months to <2 years of age (N = 19), 7.4 ng/mL in subjects 2 to <6 years of age (N = 37), 13.7 ng/mL in subjects 6 to <12 years of age (N = 37), and 10.8 ng/mL in subjects 12 to <18 years of age (N = 39).

Body weight

In a population pharmacokinetic analysis of the ENGAGE AF-TIMI 48 study in NVAF, C_{max} and AUC in patients with median low body weight (55 kg) were increased by 40% and 13%, respectively, as compared with patients with median high body weight (84 kg). In Phase 3 clinical studies (both NVAF and VTE indications) patients with body weight \leq 60 kg had a 50% edoxaban dose reduction and had similar efficacy and less bleeding when compared to warfarin.

Pharmocokinetic/pharmacodynamic relationship(s)

PT, INR, aPTT and anti-FXa correlate linearly with edoxaban concentrations in adults. A linear correlation was also observed between anti-FXa activities and the plasma concentrations of edoxaban in paediatric patients from birth to 18 years of age. Overall, the PK-PD relationships were similar between paediatric patients from birth to 18 years of age and adult VTE patients. However, the variability in PD generated considerable uncertainty in the assessment of this relationship.

5.3 Preclinical safety data

Non-clinical data reveal no special hazard for humans based on conventional studies of safety pharmacology, repeated dose toxicity, genotoxicity, carcinogenic potential, or phototoxicity.

Reproductive toxicology

Edoxaban showed vaginal haemorrhage at higher doses in rats and rabbits but had no effects in the reproductive performance of parent rats.

In rats, no effects on male or female fertility were seen.

In animal reproduction studies, rabbits showed increased incidence of gallbladder variations at a dose of 200 mg/kg which is approximately 65 times the maximum recommended human dose (MRHD) of 60 mg/day based on total body surface area in mg/m². Increased post-implantation pregnancy losses occurred in rats at 300 mg/kg/day (approximately 49 times the MRHD) and in rabbits at 200 mg/kg/day (approximately 65 times the MRHD) respectively.

Edoxaban was excreted in the breast milk of lactating rats.

Environmental risk assessment (ERA)

The active substance edoxaban to silate is persistent in the environment (for instructions on disposal see section 6.6).

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Tablet core

Mannitol (E421) Pregelatinised starch Crospovidone (E1202) Hydroxypropyl cellulose (E463) Magnesium stearate (E470b)

Film-coat

Hypromellose (E464) Macrogol (8000) Titanium dioxide (E171) Talc (E553b) Carnauba wax

Lixiana 15 mg film-coated tablets Iron oxide yellow (E172) Iron oxide red (E172)

Lixiana 30 mg film-coated tablets Iron oxide red (E172)

Lixiana 60 mg film-coated tablets Iron oxide yellow (E172)

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

5 years

6.4 Special precautions for storage

This medicinal product does not require any special storage conditions.

6.5 Nature and contents of container

Lixiana 15 mg film-coated tablets

PVC/Aluminium blisters in cartons of 10 film-coated tablets.

PVC/Aluminium perforated unit dose blisters in cartons of 10 x 1 film-coated tablets.

Lixiana 30 mg film-coated tablets

PVC/Aluminium blisters in cartons of 10, 14, 28, 30, 56, 60, 84, 90, 98, 100 film-coated tablets. PVC/Aluminium perforated unit dose blisters in cartons of 10×1 , 50×1 and 100×1 film-coated tablets.

HDPE bottles with a PP screw cap containing 90 film-coated tablets.

Lixiana 60 mg film-coated tablets

PVC/Aluminium blisters in cartons of 10, 14, 28, 30, 56, 60, 84, 90, 98, 100 film-coated tablets. PVC/Aluminium perforated unit dose blisters in cartons of 10 x 1, 50 x 1 and 100 x 1 film-coated tablets.

HDPE bottles with a PP screw cap containing 90 film-coated tablets.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

7. MARKETING AUTHORISATION HOLDER

Daiichi Sankyo Europe GmbH Zielstattstrasse 48 81379 Munich Germany

8. MARKETING AUTHORISATION NUMBER(S)

Lixiana 15 mg film-coated tablets

EU/1/15/993/001, EU/1/15/993/016

Lixiana 30 mg film-coated tablets

EU/1/15/993/002, EU/1/15/993/004-015, EU/1/15/993/029

Lixiana 60 mg film-coated tablets

EU/1/15/993/003, EU/1/15/993/017-028, EU/1/15/993/030

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 19 June 2015 Date of latest renewal: 24 February 2020

10. DATE OF REVISION OF THE TEXT

Detailed information on this medicinal product is available on the website of the European Medicines Agency https://www.ema.europa.eu.

ANNEX II

- A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE
- B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE
- C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION
- D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturer(s) responsible for batch release

Daiichi Sankyo Europe GmbH Luitpoldstrasse 1 85276 Pfaffenhofen, Bayern Germany

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to medical prescription.

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

• Periodic safety update reports (PSURs)

The requirements for submission of PSURs for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal.

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

Risk management plan (RMP)

The marketing authorisation holder (MAH) shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the marketing authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:

- At the request of the European Medicines Agency;
- Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.

Additional risk minimisation measures

Prior to launch of Lixiana in each Member State, the MAH must agree the content and format of the educational programme, including communication media, distribution modalities, and any other aspects of the programme, with the national competent authority (NCA).

The educational programme is aimed at mitigating the risk of serious bleeds or haemorrhage in patients treated with Lixiana by ensuring prescriber awareness and providing guidance on appropriate patient selection, correct dosing as well as management of the risk.

The programme is also aimed at ensuring that the healthcare professionals who intend to prescribe Lixiana are aware of the patient alert card and that the card is to be given to and reviewed with all patients treated with Lixiana.

The MAH shall ensure that in each Member State where Lixiana is marketed, all healthcare professionals who are expected to use Lixiana are provided with the following educational material:

• The Summary of Product Characteristics (SmPC)

- Prescriber guide for healthcare professionals
- Patient alert card

The prescriber guide for healthcare professionals shall contain the following key elements:

- Relevant information on the risk of bleeding
- Details of the population potentially at higher risk of bleeding
- Contraindications
- Recommendations for dose adjustment in at risk populations, including patients with renal or hepatic impairment, low body weight and concomitant use of some P-gp inhibitors
- Guidance on switching from or to Lixiana treatment
- Guidance regarding surgery or invasive procedure, and temporary discontinuation
- Management of overdose situations and haemorrhage
- Use of coagulation tests and their interpretation
- That all patients should be provided with a patient alert card and be counselled about:
 - > The signs or symptoms of bleeding and when to seek attention from a healthcare provider
 - > Importance of treatment compliance
 - Necessity to carry the patient alert card with them at all times
 - > The need to inform health care professionals that they are taking Lixiana if they need to have any surgery or invasive procedure

The patient alert card should contain the following key safety messages:

- The signs or symptoms of bleeding and when to seek attention
- Importance of treatment compliance
- Necessity to carry the patient alert card with them at all times
- The need to inform health care professionals that they are taking Lixiana if they need to have any surgery or invasive procedure

ANNEX III LABELLING AND PACKAGE LEAFLET

A. LABELLING

PARTICULARS TO APPEAR ON THE OUTER PACKAGING
OUTER CARTON FOR 15 MG
1. NAME OF THE MEDICINAL PRODUCT
Lixiana 15 mg film-coated tablets edoxaban
2. STATEMENT OF ACTIVE SUBSTANCE(S)
Each film-coated tablet contains 15 mg edoxaban (as tosilate).
3. LIST OF EXCIPIENTS
4. PHARMACEUTICAL FORM AND CONTENTS
10 film-coated tablets 10 x 1 film-coated tablets
5. METHOD AND ROUTE(S) OF ADMINISTRATION
Read the package leaflet before use. Oral use.
6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN
Keep out of the sight and reach of children.
7. OTHER SPECIAL WARNING(S), IF NECESSARY
8. EXPIRY DATE
EXP
9. SPECIAL STORAGE CONDITIONS
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

12. MARKETING AUTHORISATION NUMBER(S) EU/1/15/993/001 10 film-coated tablets EU/1/15/993/016 10 x 1 film-coated tablets 13. BATCH NUMBER Lot 14. GENERAL CLASSIFICATION FOR SUPPLY 15. INSTRUCTIONS ON USE 16. INFORMATION IN BRAILLE Lixiana 15 mg 17. UNIQUE IDENTIFIER – 2D BARCODE 2D barcode carrying the unique identifier included. 18. UNIQUE IDENTIFIER – HUMAN READABLE DATA PC SN NN		ni Sankyo Europe GmbH Munich any
13. BATCH NUMBER Lot 14. GENERAL CLASSIFICATION FOR SUPPLY 15. INSTRUCTIONS ON USE 16. INFORMATION IN BRAILLE Lixiana 15 mg 17. UNIQUE IDENTIFIER – 2D BARCODE 2D barcode carrying the unique identifier included. 18. UNIQUE IDENTIFIER – HUMAN READABLE DATA PC SN	12.	MARKETING AUTHORISATION NUMBER(S)
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Lixiana 15 mg 17. UNIQUE IDENTIFIER – 2D BARCODE 2D barcode carrying the unique identifier included. 18. UNIQUE IDENTIFIER – HUMAN READABLE DATA PC SN	15.	INSTRUCTIONS ON USE
Lixiana 15 mg 17. UNIQUE IDENTIFIER – 2D BARCODE 2D barcode carrying the unique identifier included. 18. UNIQUE IDENTIFIER – HUMAN READABLE DATA PC SN	16	INFORMATION IN RDAIL I F
17. UNIQUE IDENTIFIER – 2D BARCODE 2D barcode carrying the unique identifier included. 18. UNIQUE IDENTIFIER - HUMAN READABLE DATA PC SN		
2D barcode carrying the unique identifier included. 18. UNIQUE IDENTIFIER - HUMAN READABLE DATA PC SN	Lixian	a 13 mg
18. UNIQUE IDENTIFIER - HUMAN READABLE DATA PC SN	17.	UNIQUE IDENTIFIER – 2D BARCODE
PC SN	2D ba	rcode carrying the unique identifier included.
PC SN	10	
SN	18.	UNIQUE IDENTIFIER - HUMAN READABLE DATA

NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

11.

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS		
BLISTER OF 10 FILM-COATED TABLETS FOR 15 MG		
1. NAME OF THE MEDICINAL PRODUCT		
Lixiana 15 mg film-coated tablets edoxaban		
2. NAME OF THE MARKETING AUTHORISATION HOLDER		
Daiichi-Sankyo (logo)		
3. EXPIRY DATE		
EXP		
4. BATCH NUMBER		
Lot		
5. OTHER		

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS		
UNIT DOSE BLISTER OF 10 x 1 FILM-COATED TABLETS FOR 15 MG		
1. NAME OF THE MEDICINAL PRODUCT		
Lixiana 15 mg film-coated tablets edoxaban		
2. NAME OF THE MARKETING AUTHORISATION HOLDER		
Daiichi-Sankyo (logo)		
3. EXPIRY DATE		
EXP		
4. BATCH NUMBER		
Lot		
5. OTHER		

OUTER CARTON FOR 30 MG NAME OF THE MEDICINAL PRODUCT Lixiana 30 mg film-coated tablets edoxaban 2. STATEMENT OF ACTIVE SUBSTANCE(S) Each film-coated tablet contains 30 mg edoxaban (as tosilate). 3. LIST OF EXCIPIENTS 4. PHARMACEUTICAL FORM AND CONTENTS 10 film-coated tablets 14 film-coated tablets 28 film-coated tablets 30 film-coated tablets 56 film-coated tablets 60 film-coated tablets 84 film-coated tablets 90 film-coated tablets 98 film-coated tablets 100 film-coated tablets 10 x 1 film-coated tablets 50 x 1 film-coated tablets 100 x 1 film-coated tablets 5. METHOD AND ROUTE(S) OF ADMINISTRATION Read the package leaflet before use. Oral use. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT 6. OF THE SIGHT AND REACH OF CHILDREN Keep out of the sight and reach of children. 7. OTHER SPECIAL WARNING(S), IF NECESSARY

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

8.

EXP

EXPIRY DATE

9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Daiichi Sankyo Europe GmbH 81366 Munich Germany

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/15/993/002	10 film-coated tablets
EU/1/15/993/004	14 film-coated tablets
EU/1/15/993/005	28 film-coated tablets
EU/1/15/993/006	30 film-coated tablets
EU/1/15/993/007	56 film-coated tablets
EU/1/15/993/008	60 film-coated tablets
EU/1/15/993/009	84 film-coated tablets
EU/1/15/993/010	90 film-coated tablets
EU/1/15/993/011	98 film-coated tablets
EU/1/15/993/012	100 film-coated tablets
EU/1/15/993/013	10 x 1 film-coated tablets
EU/1/15/993/014	50 x 1 film-coated tablets
EU/1/15/993/015	100 x 1 film-coated tablets

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Lixiana 30 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC

SN NN

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS		
BLIST	TER OF 10 FILM-COATED TABLETS FOR 30 MG	
1.	NAME OF THE MEDICINAL PRODUCT	
Lixiana edoxab	a 30 mg film-coated tablets van	
2.	NAME OF THE MARKETING AUTHORISATION HOLDER	
Daiichi	i-Sankyo (logo)	
3.	EXPIRY DATE	
EXP		
4.	BATCH NUMBER	
Lot		
5	ОТНЕВ	

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS		
BLISTER OF 14 FILM-COATED TABLETS FOR 30 MG		
1.	NAME OF THE MEDICINAL PRODUCT	
Lixiana 30 mg film-coated tablets edoxaban		
2.	NAME OF THE MARKETING AUTHORISATION HOLDER	
Daiichi	-Sankyo (logo)	
3.	EXPIRY DATE	
EXP		
4.	BATCH NUMBER	
Lot		
5.	OTHER	

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS		
UNIT DOSE BLISTER OF 10 x 1 FILM-COATED TABLETS FOR 30 MG		
1. NAME OF THE MEDICINAL PRODUCT		
Lixiana 30 mg film-coated tablets edoxaban		
2. NAME OF THE MARKETING AUTHORISATION HOLDER		
Daiichi-Sankyo (logo)		
3. EXPIRY DATE		
EXP		
4. BATCH NUMBER		
Lot		
5. OTHER		

PACKAGING		
OUTER CARTON AND LABEL FOR HDPE BOTTLE FOR 30 MG		
1. NAME OF THE MEDICINAL PRODUCT		
Lixiana 30 mg film-coated tablets edoxaban		
2. STATEMENT OF ACTIVE SUBSTANCE(S)		
Each film-coated tablet contains 30 mg edoxaban (as tosilate).		
3. LIST OF EXCIPIENTS		
4. PHARMACEUTICAL FORM AND CONTENTS		
90 film-coated tablets		
5. METHOD AND ROUTE(S) OF ADMINISTRATION		
Read the package leaflet before use. Oral use.		
6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN		
Keep out of the sight and reach of children.		
7. OTHER SPECIAL WARNING(S), IF NECESSARY		
8. EXPIRY DATE		
EXP		
9. SPECIAL STORAGE CONDITIONS		
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE		

PARTICULARS TO APPEAR ON THE OUTER PACKAGING AND THE IMMEDIATE

Daiichi Sankyo Europe GmbH 81366 Munich Germany 12. MARKETING AUTHORISATION NUMBER(S) EU/1/15/993/029 90 film-coated tablets (HDPE Bottle) 13. **BATCH NUMBER** Lot 14. GENERAL CLASSIFICATION FOR SUPPLY Medicinal product subject to medical prescription. (only applicable for bottle label) 15. INSTRUCTIONS ON USE 16. INFORMATION IN BRAILLE Lixiana 30 mg (only applicable for outer carton, not applicable for bottle label) 17. **UNIQUE IDENTIFIER – 2D BARCODE** 2D barcode carrying the unique identifier included. (only applicable for outer carton, not applicable for bottle label)

NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

11.

PC (only applicable for outer carton, not applicable for bottle label)

SN (only applicable for outer carton, not applicable for bottle label)

NN (only applicable for outer carton, not applicable for bottle label)

OUTER CARTON FOR 60 MG NAME OF THE MEDICINAL PRODUCT Lixiana 60 mg film-coated tablets edoxaban 2. STATEMENT OF ACTIVE SUBSTANCE(S) Each film-coated tablet contains 60 mg edoxaban (as tosilate). 3. LIST OF EXCIPIENTS 4. PHARMACEUTICAL FORM AND CONTENTS 10 film-coated tablets 14 film-coated tablets 28 film-coated tablets 30 film-coated tablets 56 film-coated tablets 60 film-coated tablets 84 film-coated tablets 90 film-coated tablets 98 film-coated tablets 100 film-coated tablets 10 x 1 film-coated tablets 50 x 1 film-coated tablets 100 x 1 film-coated tablets 5. METHOD AND ROUTE(S) OF ADMINISTRATION Read the package leaflet before use. Oral use. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT 6. OF THE SIGHT AND REACH OF CHILDREN Keep out of the sight and reach of children. 7. OTHER SPECIAL WARNING(S), IF NECESSARY 8. **EXPIRY DATE**

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

EXP

9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Daiichi Sankyo Europe GmbH 81366 Munich Germany

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/15/993/003	10 film-coated tablets
EU/1/15/993/017	14 film-coated tablets
EU/1/15/993/018	28 film-coated tablets
EU/1/15/993/019	30 film-coated tablets
EU/1/15/993/020	56 film-coated tablets
EU/1/15/993/021	60 film-coated tablets
EU/1/15/993/022	84 film-coated tablets
EU/1/15/993/023	90 film-coated tablets
EU/1/15/993/024	98 film-coated tablets
EU/1/15/993/025	100 film-coated tablets
EU/1/15/993/026	10 x 1 film-coated tablets
EU/1/15/993/027	50 x 1 film-coated tablets
EU/1/15/993/028	100 x 1 film-coated tablets

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Lixiana 60 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC

SN NN

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS BLISTER OF 10 FILM-COATED TABLETS FOR 60 MG	
1. NAME OF THE MEDICINAL PRODUCT	
Lixiana 60 mg film-coated tablets edoxaban	
2. NAME OF THE MARKETING AUTHORISATION HOLDER	
Daiichi-Sankyo (logo)	
3. EXPIRY DATE	
EXP	
4. BATCH NUMBER	
Lot	
5 OTHER	

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS		
BLISTER OF 14 FILM-COATED TABLETS FOR 60 MG		
1. NAME OF THE MEDICINAL PRODUCT		
Lixiana 60 mg film-coated tablets edoxaban		
2. NAME OF THE MARKETING AUTHORISATION HOLDER		
Daiichi-Sankyo (logo)		
3. EXPIRY DATE		
EXP		
4. BATCH NUMBER		
Lot		
5. OTHER		

MON, TUE, WED, THU, FRI, SAT, SUN

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS
UNIT DOSE BLISTER OF 10 x 1 FILM-COATED TABLETS FOR 60 MG
1. NAME OF THE MEDICINAL PRODUCT
Lixiana 60 mg film-coated tablets edoxaban
2. NAME OF THE MARKETING AUTHORISATION HOLDER
Daiichi-Sankyo (logo)
3. EXPIRY DATE
EXP
4. BATCH NUMBER
Lot
5. OTHER

PACKAGING
OUTER CARTON AND LABEL FOR HDPE BOTTLE FOR 60 MG
1. NAME OF THE MEDICINAL PRODUCT
Lixiana 60 mg film-coated tablets edoxaban
2. STATEMENT OF ACTIVE SUBSTANCE(S)
Each film-coated tablet contains 60 mg edoxaban (as tosilate).
3. LIST OF EXCIPIENTS
4. PHARMACEUTICAL FORM AND CONTENTS
90 film-coated tablets
5. METHOD AND ROUTE(S) OF ADMINISTRATION
Read the package leaflet before use. Oral use.
6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN
Keep out of the sight and reach of children.
7. OTHER SPECIAL WARNING(S), IF NECESSARY
8. EXPIRY DATE
EXP
9. SPECIAL STORAGE CONDITIONS
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

PARTICULARS TO APPEAR ON THE OUTER PACKAGING AND THE IMMEDIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER Daiichi Sankyo Europe GmbH 81366 Munich Germany 12. MARKETING AUTHORISATION NUMBER(S) EU/1/15/993/030 90 film-coated tablets (HDPE Bottle) 13. **BATCH NUMBER** Lot 14. GENERAL CLASSIFICATION FOR SUPPLY Medicinal product subject to medical prescription. (only applicable for bottle label) 15. INSTRUCTIONS ON USE 16. INFORMATION IN BRAILLE Lixiana 60 mg (only applicable for outer carton, not applicable for bottle label) 17. **UNIQUE IDENTIFIER – 2D BARCODE** 2D barcode carrying the unique identifier included. (only applicable for outer carton, not applicable for bottle label)

PC (only applicable for outer carton, not applicable for bottle label)

SN (only applicable for outer carton, not applicable for bottle label)

NN (only applicable for outer carton, not applicable for bottle label)

PATIENT ALERT CARD

PATIENT ALERT CARD

Lixiana

film-coated tablets

edoxaban
Please keep this card with you at all times.
Present it to your healthcare professional, pharmacist, surgeon or dentist before any medical treatment or intervention.
PATIENT INFORMATION
Patient name:
Date of birth:
In case of emergency, please contact:
Name:
Phone no:
TREATMENT INFORMATION (To be completed by physician) Lixiana has been prescribed at a once-daily dose of: mg
Started on: / (mm/yy)
Blood type:
Other medicines/conditions:

PRESCRIBER INFORMATION

For more information or in case of emergency, please contact:

Physician's name:

Phone number, practice stamp:

Signature of physician:

INFORMATION FOR HEALTHCARE PROFESSIONALS

- Lixiana is an oral anticoagulant factor Xa inhibitor.
- When an invasive procedure is required, Lixiana should be stopped at least 24 hours beforehand, and appropriate caution exercised.
- Lixiana may increase the risk of bleeding. In case of clinically significant bleeding, stop treatment immediately.

• Coagulation tests such as international normalised ratio (INR), prothrombin time (PT), or activated partial thromboplastin time (aPTT) are not a useful measure of the effect of Lixiana. However, a calibrated anti-Factor Xa assay may help inform clinical decisions.

Please consult the Summary of Product Characteristics (SmPC) for more information.

Daiichi Sankyo [LOGO]

ABOUT YOUR TREATMENT

You have been prescribed Lixiana, an anticoagulant medicine, which thins your blood and helps prevent you from suffering blood clots. It is important that you take your medicine exactly as instructed by your doctor.

- If you miss a dose, take it immediately and then continue the following day as normal do not take double the prescribed dose in a single day.
- Do not start any other medications (including over the counter) without consulting your doctor.
- Do not stop taking Lixiana without consulting your doctor as this can increase your risk of developing a blood clot.
- Please read the Patient Information Leaflet found inside each pack of Lixiana.

WHEN TO SEEK MEDICAL ADVICE

RISK OF BLEEDING

Taking an anticoagulant medicine such as Lixiana can increase your risk of bleeding. It is therefore important to be aware of the possible signs and symptoms of bleeding and to speak to your doctor **immediately** if you experience any of the following:

- Bruising or bleeding under the skin
- Blood in the urine
- Coughing up blood
- Vomiting blood or material that looks like ground coffee
- Nose bleeds or cuts that take a long time to stop bleeding
- Tar-coloured stools
- Dizziness or sudden headache
- Unexplained tiredness
- Abnormal vaginal bleeding, including heavier or prolonged menses

Please talk to your doctor if you experience any unusual symptoms.

B. PACKAGE LEAFLET

Package leaflet: Information for the user

Lixiana 15 mg film-coated tablets Lixiana 30 mg film-coated tablets Lixiana 60 mg film-coated tablets edoxaban

Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

- 1. What Lixiana is and what it is used for
- 2. What you need to know before you take Lixiana
- 3. How to take Lixiana
- 4. Possible side effects
- 5. How to store Lixiana
- 6. Contents of the pack and other information

1. What Lixiana is and what it is used for

Lixiana contains the active substance edoxaban and belongs to a group of medicines called anticoagulants. This medicine helps to prevent blood clots from forming. It works by blocking the activity of factor Xa, which is an important component of blood clotting.

Lixiana is used in adults to:

- **prevent blood clots in the brain** (stroke) **and other blood vessels in the body** if you have a form of irregular heart rhythm called nonvalvular atrial fibrillation and at least one additional risk factor, such as heart failure, previous stroke or high blood pressure;
- treat blood clots in the veins of the legs (deep vein thrombosis) and in the blood vessels in the lungs (pulmonary embolism), and to prevent blood clots from re-occurring in the blood vessels in the legs and/or lungs.

2. What you need to know before you take Lixiana

Do not take Lixiana

- if you are allergic to edoxaban or any of the other ingredients of this medicine (listed in section 6):
- if you are actively bleeding;
- if you have a disease or condition that increases the risk of serious bleeding (e.g. stomach ulcer, injury or bleeding in the brain, or recent surgery of the brain or eyes);
- if you are taking other medicines to prevent blood clotting (e.g. warfarin, dabigatran, rivaroxaban, apixaban or heparin), except when changing anticoagulant treatment or while getting heparin through a venous or arterial line to keep it open;
- if you have a liver disease which leads to an increased risk of bleeding;
- if you have uncontrolled high blood pressure;
- if you are pregnant or breast feeding.

Warnings and precautions

Talk to your doctor or pharmacist before taking Lixiana,

- if you have an increased risk of bleeding, as could be the case if you have any of the following conditions:
 - endstage kidney disease or if you are on dialysis;
 - severe liver disease;
 - bleeding disorders;
 - a problem with the blood vessels in the back of your eyes (retinopathy);
 - recent bleeding in your brain (intracranial or intracerebral bleeding);
 - problems with the blood vessels in your brain or spinal column;
- if you have a mechanical heart valve.

Lixiana 15 mg is only to be used when changing from Lixiana 30 mg to a vitamin K antagonist (e.g. warfarin) (see section 3. How to take Lixiana).

Take special care with Lixiana,

if you know that you have a disease called antiphospholipid syndrome (a disorder of the immune system that causes an increased risk for blood clots), tell your doctor who will decide if the treatment may need to be changed.

If you need to have an operation,

- it is very important to take Lixiana before and after the operation exactly at the times you have been told by your doctor. If possible, Lixiana should be stopped at least 24 hours before an operation. Your doctor will determine when to restart Lixiana.

In emergency situations your physician will help determine the appropriate actions regarding Lixiana.

Children and adolescents

Lixiana is not recommended in children and adolescents under 18 years of age.

Other medicines and Lixiana

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines.

If you are taking any of the following:

- some medicines for fungal infections (e.g. ketoconazole);
- medicines to treat abnormal heart beat (e.g. dronedarone, quinidine, verapamil);
- other medicines to reduce blood clotting (e.g. heparin, clopidogrel or vitamin K antagonists such as warfarin, acenocoumarol, phenprocoumon or dabigatran, rivaroxaban, apixaban);
- antibiotic medicines (e.g. erythromycin, clarithromycin);
- medicines to prevent organ rejection after transplantation (e.g. ciclosporin);
- anti-inflammatory and pain-relieving medicines (e.g. naproxen or acetylsalicylic acid);
- antidepressant medicines called selective serotonin reuptake inhibitors or serotoninnorepinephrine reuptake inhibitors;

If any of the above apply to you, tell your doctor before taking Lixiana, because these medicines may increase the effects of Lixiana and the chance of unwanted bleeding. Your doctor will decide, if you should be treated with Lixiana and if you should be kept under observation.

If you are taking any of the following:

- some medicines for treatment of epilepsy (e.g. phenytoin, carbamazepine, phenobarbital);
- St John's Wort, a herbal product used for anxiety and mild depression;
- rifampicin, an antibiotic medicine.

If any of the above apply to you, tell your doctor before taking Lixiana, because the effect of Lixiana may be reduced. Your doctor will decide if you should be treated with Lixiana and if you should be kept under observation.

Pregnancy and breast-feeding

Do not take Lixiana if you are pregnant or breast-feeding. If there is a chance that you could become pregnant, use a reliable contraceptive while you are taking Lixiana. If you become pregnant while you are taking Lixiana, immediately tell your doctor, who will decide how you should be treated.

Driving and using machines

Lixiana has no or negligible effects on your ability to drive or use machines.

3. How to take Lixiana

Always take this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.

How much to take

The recommended dose is one **60 mg** tablet once daily.

- **If you have impaired kidney function**, the dose may be reduced to one **30 mg** tablet once daily by your doctor;
- if your body weight is 60 kg or lower, the recommended dose is one 30 mg tablet once daily;
- **if your doctor has prescribed medicines known as P-gp inhibitors:** ciclosporin, dronedarone, erythromycin, or ketoconazole, the recommended dose is one **30 mg** tablet once daily.

How to take the tablet

Swallow the tablet, preferably with water. Lixiana can be taken with or without food.

If you have difficulty swallowing the tablet whole, talk to your doctor about other ways to take Lixiana. The tablet may be crushed and mixed with water or apple puree immediately before you take it. If necessary, your doctor may also give you the crushed Lixiana tablet through a tube via the nose (nasogastric tube) or a tube in the stomach (gastric feeding tube).

Your doctor may change your anticoagulant treatment as follows:

Changing from vitamin K antagonists (e.g. warfarin) to Lixiana

Stop taking the vitamin K antagonist (e.g. warfarin). Your doctor will need to do blood measurements and will instruct you when to start taking Lixiana.

Changing from non-VKA oral anticoagulants (dabigatran, rivaroxaban, or apixaban) to Lixiana Stop taking the previous medicines (e.g. dabigatran, rivaroxaban, or apixaban) and start Lixiana at the time of the next scheduled dose.

Changing from parenteral anticoagulants (e.g. heparin) to Lixiana
Stop taking the anticoagulant (e.g. heparin) and start Lixiana at the time of the next scheduled anticoagulant dose.

Changing from Lixiana to vitamin K antagonists (e.g. warfarin)

If you currently take 60 mg Lixiana:

Your doctor will tell you to reduce your dose of Lixiana to a 30 mg tablet once daily and to take it together with a vitamin K antagonist (e.g. warfarin). Your doctor will need to do blood measurements and will instruct you when to stop taking Lixiana.

If you currently take 30 mg (dose reduced) Lixiana:

Your doctor will tell you to reduce your dose of Lixiana to a 15 mg tablet once daily and to take it together with a vitamin K antagonist (e.g. warfarin). Your doctor will need to do blood measurements and will instruct you when to stop taking Lixiana.

Changing from Lixiana to non-VKA oral anticoagulants (dabigatran, rivaroxaban, or apixaban) Stop taking Lixiana and start the non-VKA anticoagulant (e.g. dabigatran, rivaroxaban, or apixaban) at the time of the next scheduled dose of Lixiana.

Changing from Lixiana to parenteral anticoagulants (e.g. heparin)

Stop taking Lixiana and start the parenteral anticoagulant (e.g. heparin) at the time of the next scheduled dose of Lixiana.

Patients undergoing cardioversion:

If your abnormal heartbeat needs to be restored to normal by a procedure called cardioversion, take Lixiana at the times your doctor tells you to prevent blood clots in the brain and other blood vessels in your body.

If you take more Lixiana than you should

Tell your doctor immediately if you have taken too many Lixiana tablets. If you take more Lixiana than recommended, you may have an increased risk of bleeding.

If you forget to take Lixiana

You should take the tablet immediately and then continue the following day with the once daily tablet as usual. Do not take a double dose on the same day to make up for a forgotten dose.

If you stop taking Lixiana

Do not stop taking Lixiana without talking to your doctor first, because Lixiana treats and prevents serious conditions.

If you have any further questions on the use of this medicine, ask your doctor or pharmacist.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Like other similar medicines (medicines to reduce blood clotting), Lixiana may cause bleeding which may potentially be life-threatening. In some cases the bleeding may not be obvious.

If you experience any bleeding event that does not stop by itself or if you experience signs of excessive bleeding (exceptional weakness, tiredness, paleness, dizziness, headache or unexplained swelling) consult your doctor immediately.

Your doctor may decide to keep you under closer observation or change your medicine.

Overall list of possible side effects:

Common (may affect up to 1 in 10 people)

- stomach ache:
- abnormal liver blood tests;
- bleeding from the skin or under the skin;
- anaemia (low levels of red blood cells);
- bleeding from the nose;
- bleeding from the vagina;
- rash;
- bleeding in the bowel;
- bleeding from the mouth and/or throat;
- blood found in your urine;
- bleeding following an injury (puncture);
- bleeding in the stomach;
- dizziness;
- feeling sick;
- headache;
- itching.

Uncommon (may affect up to 1 in 100 people)

- bleeding in the eyes;
- bleeding from a surgical wound following an operation;
- blood in the spit when coughing;
- bleeding in the brain;
- other types of bleeding;
- reduced number of platelets in your blood (which can affect clotting);
- allergic reaction;
- hives.

Rare (may affect up to 1 in 1,000 people)

- bleeding in the muscles;
- bleeding in joints;
- bleeding in the abdomen;
- bleeding in the heart;
- bleeding inside the skull;
- bleeding following a surgical procedure;
- allergic shock;
- swelling of any part of the body due to allergic reaction.

Not known (frequency cannot be estimated from the available data)

• bleeding in the kidney sometimes with presence of blood in urine leading to inability of the kidneys to work properly (anticoagulant-related nephropathy).

Reporting of side effects

If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in <u>Appendix V</u>. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Lixiana

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the carton and on each blister or bottle after EXP. The expiry date refers to the last day of that month.

This medicine does not require any special storage conditions.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What Lixiana contains

- The active substance is edoxaban (as tosilate).

Lixiana 15 mg film-coated tablets

Each tablet contains 15 mg edoxaban (as tosilate).

Lixiana 30 mg film-coated tablets

Each tablet contains 30 mg edoxaban (as tosilate).

Lixiana 60 mg film-coated tablets

Each tablet contains 60 mg edoxaban (as tosilate).

- The other ingredients are:

Lixiana 15 mg film-coated tablets

Tablet core: mannitol (E421), pregelatinised starch, crospovidone (E1202), hydroxypropyl cellulose (E463), magnesium stearate (E470b).

Film coat: hypromellose (E464), macrogol (8000), titanium dioxide (E171), talc (E553b), carnauba wax, iron oxide red (E172), iron oxide yellow (E172).

Lixiana 30 mg film-coated tablets

Tablet core: mannitol (E421), pregelatinised starch, crospovidone (E1202), hydroxypropyl cellulose (E463), magnesium stearate (E470b).

Film coat: hypromellose (E464), macrogol (8000), titanium dioxide (E171), talc (E553b), carnauba wax, iron oxide red (E172).

Lixiana 60 mg film-coated tablets

Tablet core: mannitol (E421), pregelatinised starch, crospovidone (E1202), hydroxypropyl cellulose (E463), magnesium stearate (E470b).

Film coat: hypromellose (E464), macrogol (8000), titanium dioxide (E171), talc (E553b), carnauba wax, iron oxide yellow (E172).

What Lixiana looks like and contents of the pack

Lixiana 15 mg film-coated tablets are orange, round-shaped (6.7 mm diameter) and debossed with "DSC L15" on one side.

They come in blisters in cartons of 10 film-coated tablets or unit dose blisters in cartons of 10 x 1 film-coated tablets.

Lixiana 30 mg film-coated tablets are pink, round-shaped (8.5 mm diameter) and debossed with "DSC L30" on one side.

They come in blisters in cartons of 10, 14, 28, 30, 56, 60, 84, 90, 98 or 100 film-coated tablets or unit dose blisters in cartons of 10×1 , 50×1 , or 100×1 film-coated tablets, or in bottles of 90 film-coated tablets.

Lixiana 60 mg film-coated tablets are yellow, round-shaped (10.5 mm diameter) and debossed with "DSC L60" on one side.

They come in blisters in cartons of 10, 14, 28, 30, 56, 60, 84, 90, 98 or 100 film-coated tablets or unit dose blisters in cartons of 10 x 1, 50 x 1, or 100 x 1 film-coated tablets, or in bottles of 90 film-coated tablets.

Not all pack sizes may be marketed.

Marketing Authorisation Holder

Daiichi Sankyo Europe GmbH Zielstattstrasse 48 81379 Munich Germany

Manufacturer

Daiichi Sankyo Europe GmbH Luitpoldstrasse 1 85276 Pfaffenhofen Germany

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:

België/Belgique/Belgien

Daiichi Sankyo Belgium N.V.-S.A Tél/Tel: +32-(0) 2 227 18 80

България

Daiichi Sankyo Europe GmbH Tel: +49-(0) 89 7808 0

Česká republika

Organon Czech Republic s.r.o. Tel: +420 277 051 010

Danmark

Organon Denmark ApS Tlf.: +45 4484 6800

Deutschland

Daiichi Sankyo Deutschland GmbH Tel. +49-(0) 89 7808 0

Eesti

Servier Laboratories OÜ Tel: +372 664 5040

Ελλάδα

Daiichi Sankyo Europe GmbH Tηλ: +49-(0) 89 7808 0

Lietuva

UAB "SERVIER PHARMA" Tel: +370 (5) 2 63 86 28

Luxembourg/Luxemburg

Daiichi Sankyo Belgium N.V.-S.A Tél/Tel: +32-(0) 2 227 18 80

Magyarország

Organon Hungary Kft. Tel.: +36 1 766 1963

Malta

Daiichi Sankyo Europe GmbH Tel: +49-(0) 89 7808 0

Nederland

Daiichi Sankyo Nederland B.V. Tel: +31-(0) 20 4 07 20 72

Norge

Organon Norway AS Tlf: +47 24 14 56 60

Österreich

Daiichi Sankyo Austria GmbH Tel: +43-(0) 1 485 86 42 0 España

Daiichi Sankyo España, S.A.

Tel: +34 91 539 99 11

France

Daiichi Sankyo France S.A.S.

Tél: +33-(0) 1 55 62 14 60

Hrvatska

Daiichi Sankyo Europe GmbH

Tel: +49-(0) 89 7808 0

Ireland

Daiichi Sankyo Ireland Ltd

Tel: +353-(0) 1 489 3000

Ísland

Vistor hf.

Sími: +354 535 7000

Italia

Daiichi Sankyo Italia S.p.A.

Tel: +39-06 85 2551

Κύπρος

Daiichi Sankyo Europe GmbH

Τηλ: +49-(0) 89 7808 0

Latvija

SIA Servier Latvia

Tel: +371 67502039

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Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site:

https://www.ema.europa.eu.

Polska

Daiichi Sankyo Europe GmbH

Tel: +49-(0) 89 7808 0

Portugal

Daiichi Sankyo Portugal, Unip. LDA

Tel: +351 21 4232010

România

Daiichi Sankyo Europe GmbH

Tel: +49-(0) 89 7808 0

Slovenija

Daiichi Sankyo Europe GmbH

Tel: +49-(0) 89 7808 0

Slovenská republika

Organon Slovakia s. r. o.

Tel: +421 2 44 88 98 88

Suomi/Finland

Organon Finland Oy

Puh/Tel: +358 (0) 29 170 3520

Sverige

Organon Sweden AB

Tel: +46 8 502 597 00