- 1 Lixiana<sup>®</sup> 15 mg
- 2 Lixiana<sup>®</sup> 30 mg
- 3 Lixiana<sup>®</sup> 60 mg
- 4 (Edoxaban)

This medicinal product is subject to additional monitoring. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse reactions.
See section 4.8 for how to report adverse reactions.

## 8 1. NAME OF THE MEDICINAL PRODUCT

- 9 Lixiana 15 mg film-coated tablets
- 10 Lixiana 30 mg film-coated tablets
- 11 Lixiana 60 mg film-coated tablets

## 12 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

- 13 Each 15 mg film-coated tablet contains 15 mg edoxaban (as tosilate).
- 14 Each 30 mg film-coated tablet contains 30 mg edoxaban (as tosilate).
- 15 Each 60 mg film-coated tablet contains 60 mg edoxaban (as tosilate).
- 16 For the full list of excipients, see section 6.1.

## 17 3. PHARMACEUTICAL FORM

- 18 Film-coated tablet.
- 15 mg film-coated tablet: Orange, round-shaped film-coated tablets (6.7 mm diameter) debossed with "DSC
   L15".
- 21 30 mg film-coated tablet: Pink, round-shaped film-coated tablets (8.5 mm diameter) debossed with
- 22 "DSC L30".
- 23 60 mg film-coated tablet: Yellow, round-shaped film-coated tablets (10.5 mm diameter) debossed with
- 24 "DSC L60".

## 25 4. CLINICAL PARTICULARS

## 26 4.1 Therapeutic indications

- 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  $\geq$  75 years, diabetes mellitus, prior stroke or transient ischaemic attack (TIA).
- Treatment of deep vein thrombosis (DVT) and pulmonary embolism (PE), and prevention of recurrent DVT
   and PE in adults (see section 4.4 for haemodynamically unstable PE patients).

## 32 4.2 Posology and method of administration

- 33 <u>Posology</u>
- 34 Prevention of stroke and systemic embolism
- The recommended dose is 60 mg edoxaban once daily.
- 36 Therapy with edoxaban in NVAF patients should be continued long term.

- 37 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
- 40 simultaneously.
- 41 The duration of therapy for treatment of DVT and PE (venous thromboembolism, VTE), and prevention of
- 42 recurrent VTE should be individualised after careful assessment of the treatment benefit against the risk for
- 43 bleeding (see section 4.4). Short duration of therapy (at least 3 months) should be based on transient risk factors
- 44 (e.g. recent surgery, trauma, immobilisation) and longer durations should be based on permanent risk factors
- 45 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
- 47 following clinical factors:
- 48 Moderate or severe renal impairment (creatinine clearance (CrCL) 15 50 mL/min)
- 49 Low body weight  $\leq 60 \text{ kg}$
- 50 Concomitant use of the following P-glycoprotein (P-gp) inhibitors: ciclosporin, dronedarone, erythromycin,
- 51 or ketoconazole.

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

Summary Guide for Dosing					
Recommended dose		60 mg once daily			
Dose recommendation for pa	tients with one or more of the following clinical factor	rs:			
Renal Impairment					
Low Body Weight	30 mg once daily				
P-gp Inhibitors	Ciclosporin, dronedarone, erythromycin, ketoconazole				

- 53 Missed dose
- 54 If a dose of Lixiana is missed, the dose should be taken immediately and then be continued the following day
- 55 with the once-daily intake as recommended. The patient should not take double the prescribed dose on the
- 56 same day to make up for a missed dose.
- 57 <u>Switching to and from Lixiana</u>
- 58 Continued anticoagulant therapy is important in patients with NVAF and VTE. There may be situations that
- 59 warrant a change in anticoagulation therapy (Table 2).

## 60 Table 2: Switching

Switching to Lixiana		
From	То	Recommendation
Vitamin K Antagonist (VKA)	Lixiana	Discontinue the VKA and start Lixiana when the international normalised ratio (INR) is $\leq 2.5$ .
Oral anticoagulants other than VKA • dabigatran • rivaroxaban • apixaban	Lixiana	Discontinue dabigatran, rivaroxaban or apixaban and start Lixiana at the time of the next dose of the oral anticoagulant (see section 5.1).

Switching to Lixiana						
From To Recommendation						
Parenteral anticoagulants	Lixiana	These medicinal products should not be administered simultaneously. Subcutaneous anticoagulant (i.e.: LMWH, fondaparinux): Discontinue subcutaneous anticoagulant and start Lixiana at the time of the next scheduled subcutaneous anticoagulant dose. Intravenous unfractionated heparin (UFH): Discontinue the infusion and start Lixiana 4 hours later.				

Switching from Lixiana				
From	То	Recommendation		
Lixiana		<ul> <li>There is a potential for inadequate anticoagulation during the transition from Lixiana to VKA. Continuous adequate anticoagulation should be ensured during any transition to an alternate anticoagulant.</li> <li><i>Oral option:</i> For patients currently on a 60 mg dose, administer a Lixiana dose of 30 mg once daily together with an appropriate VKA dose.</li> <li>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 a Lixiana dose of 15 mg once daily together with an appropriate VKA dose.</li> <li>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.</li> <li>Once an INR ≥ 2.0 is achieved, Lixiana should be discontinued. Most patients (85%) should be able to achieve an INR ≥ 2.0 within 14 days of concomitant administration of Lixiana and VKA. After 14 days it is recommended that Lixiana is discontinued and the VKA continued to be titrated to achieve an INR between 2 and 3.</li> <li>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 Lixiana to minimise the influence of Lixiana on INR measurements. Concomitant Lixiana and VKA can increase the INR post Lixiana dose by up to 46%.</li> </ul>		

Switching from Lixiana					
From	То	Recommendation			
		<i>Parenteral option:</i> Discontinue Lixiana and administer a parenteral anticoagulant and VKA at the time of the next scheduled Lixiana dose. Once a stable INR of $\geq$ 2.0 is achieved, the parenteral anticoagulant should be discontinued and the VKA continued.			
Lixiana	Oral anticoagulants other than VKA	Discontinue Lixiana and start the non-VKA anticoagulant at the time of the next scheduled dose of Lixiana.			
Lixiana	Parenteral anticoagulants	These agents should not be administered simultaneously. Discontinue Lixiana and start the parenteral anticoagulant at the time of the next scheduled dose of Lixiana.			

## 61 <u>Special populations</u>

## 62 Assessment of renal function:

- Renal function should be assessed in all patients by calculating the creatinine clearance (CrCL) prior to initiation of treatment with Lixiana to exclude patients with end stage renal disease (e.g. CrCL 
   < 15 mL/min), to use the correct Lixiana 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 Lixiana in patients with increased creatinine clearance (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 Lixiana was
   the Cockcroft-Gault method. The formula is as follows:
- **72** For creatinine in μmol/L:
- 73
- $1.23 \times (140\text{-age [years]}) \times \text{weight [kg]} (\times 0.85 \text{ if female})$
- 74
- $\frac{1.25 \times (140^{-}age + years)) \times weight |kg|( \ serum creatinine [µmol/L]$
- **75** For creatinine in mg/dL:

76	(140-age [years]) × weight [kg] (× 0.85 if female)
77	$72 \times \text{serum creatinine [mg/dL]}$

- 78 This method is recommended when assessing patients' CrCL prior to and during Lixiana treatment.
- 79 *Renal impairment*
- In patients with mild renal impairment (CrCL > 50 80 mL/min), the recommended dose is 60 mg Lixiana once daily.
- In patients with moderate or severe renal impairment (CrCL 15 50 mL/min), the recommended dose is 30 mg Lixiana once daily (see section 5.2).
- In patients with end stage renal disease (ESRD) (CrCL < 15 mL/min) or on dialysis, the use of Lixiana is not recommended (see sections 4.4 and 5.2).</li>

86 *Hepatic impairment* 

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

- 89 In patients with severe hepatic impairment Lixiana is not recommended (see sections 4.4 and 5.2).
- 90 In patients with mild to moderate hepatic impairment the recommended dose is 60 mg Lixiana once daily (see
- section 5.2). Lixiana should be used with caution in patients with mild to moderate hepatic impairment (see
   section 4.4).
- Patients with elevated liver enzymes (ALT/AST > 2 x ULN) or total bilirubin  $\ge$  1.5 x ULN were excluded in
- clinical trials. Therefore Lixiana should be used with caution in this population (see sections 4.4 and 5.2). Prior
   to initiating Lixiana, liver function testing should be performed.
- 96 *Body weight*
- 97 For patients with body weight  $\leq 60$  kg, the recommended dose is 30 mg Lixiana once daily (see section 5.2).
- 98 Elderly
- 99 No dose reduction is required (see section 5.2).
- 100 Gender
- 101 No dose reduction is required (see section 5.2).

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

- 103 In patients concomitantly taking Lixiana and the following P-gp inhibitors: ciclosporin, dronedarone,
- 104 erythromycin, or ketoconazole, the recommended dose is 30 mg Lixiana once daily (see section 4.5).
- 105 No dose reduction is required for concomitant use of amiodarone, quinidine or verapamil (see section 4.5).
- 106 The use of Lixiana with other P-gp inhibitors including HIV protease inhibitors has not been studied.

## 107 *Paediatric population*

- 108 The safety and efficacy of Lixiana in children and adolescents less than 18 years of age have not been 109 established. No data are available.
- 110 Patients undergoing cardioversion
- 111 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
- 115 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.
- 119 <u>Method of administration</u>
- 120 For oral use.
- 121 Lixiana can be taken with or without food (see section 5.2).

## 122 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

- 129 suspected oesophageal varices, arteriovenous malformations, vascular aneurysms or major intraspinal or intracerebral vascular abnormalities. 130
- Uncontrolled severe hypertension. 131 ٠
- Concomitant treatment with any other anticoagulants e.g. unfractionated heparin (UFH), low molecular 132 • weight heparins (enoxaparin, dalteparin, etc.), heparin derivatives (fondaparinux, etc.), oral anticoagulants 133 134 (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 135 an open central venous or arterial catheter (see section 4.5). 136
- Pregnancy and breast-feeding (see section 4.6). 137

#### 138 4.4 Special warnings and precautions for use

Lixiana 15 mg is not indicated as monotherapy, as it may result in decreased efficacy. It is only indicated in 139 the process of switching from Lixiana 30 mg (patients with one or more clinical factors for increased exposure; 140 141 see table 1) to VKA, together with an appropriate VKA dose (see table 2, section 4.2).

142 Haemorrhagic risk

143 Edoxaban increases the risk of bleeding and can cause serious, potentially fatal bleeding. Lixiana, like other anticoagulants, is recommended to be used with caution in patients with increased risk of bleeding. Lixiana 144 administration should be discontinued if severe haemorrhage occurs (see sections 4.8 and 4.9). 145

146 In the clinical studies mucosal bleedings (e.g. epistaxis, gastrointestinal, genitourinary) and anaemia were seen

147 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 148 149 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 150
- carefully monitored for signs and symptoms of bleeding complications and anaemia after initiation of treatment 151

152 (see section 4.8). Any unexplained fall in haemoglobin or blood pressure should lead to a search for a bleeding 153 site.

- 154 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). 155
- Haemodialysis does not significantly contribute to edoxaban clearance (see section 5.2). 156
- Elderly 157
- 158 The co-administration of Lixiana with ASA in elderly patients should be used cautiously because of a 159 potentially higher bleeding risk (see section 4.5).

#### 160 <u>Renal impairment</u>

- The plasma AUC for subjects with mild (CrCL > 50 80 mL/min), moderate (CrCL 30 50 mL/min) and 161
- severe (CrCL < 30 mL/min but not undergoing dialysis) renal impairment was increased by 32%, 74%, and 162
- 72%, respectively, relative to subjects with normal renal function (see section 4.2 for dose reduction). 163

- 164 In patients with end stage renal disease or on dialysis, Lixiana is not recommended (see sections 4.2 and 5.2).
- 165 Renal function in NVAF
- A trend towards decreasing efficacy with increasing creatinine clearance was observed for edoxaban compared 166
- to well-managed warfarin (see section 5.1). Therefore, edoxaban should only be used in patients with NVAF 167
- and high creatinine clearance after a careful evaluation of the individual thromboembolic and bleeding risk. 168
- Assessment of renal function: CrCL should be monitored at the beginning of the treatment in all patients and 169 170 afterwards when clinically indicated (see section 4.2).
- *Hepatic impairment* 171
- 172 Lixiana is not recommended in patients with severe hepatic impairment (see sections 4.2 and 5.2).
- Lixiana should be used with caution in patients with mild or moderate hepatic impairment (see section 4.2). 173
- 174 Patients with elevated liver enzymes (ALT/AST > 2 x ULN) or total bilirubin  $\ge$  1.5 x ULN were excluded in
- clinical trials. Therefore Lixiana should be used with caution in this population (see sections 4.2 and 5.2). Prior 175
- to initiating Lixiana, liver function testing should be performed. 176
- 177 Periodic hepatic monitoring is recommended for patients on Lixiana treatment beyond 1 year.
- 178 Discontinuation for surgery and other interventions
- If anticoagulation must be discontinued to reduce the risk of bleeding with surgical or other procedures, Lixiana 179
- 180 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 Lixiana, the increased 181
- risk of bleeding should be weighed against the urgency of the intervention. Lixiana should be restarted after 182
- the surgical or other procedures as soon as adequate haemostasis has been established, noting that the time to 183
- onset of the edoxaban anticoagulant therapeutic effect is 1 2 hours. If oral medicinal products cannot be taken 184 during or after surgical intervention, consider administering a parenteral anticoagulant and then switch to oral
- 185
  - once daily Lixiana (see section 4.2). 186
  - Interaction with other medicinal products affecting haemostasisConcomitant use of medicines affecting 187 haemostasis may increase the risk of bleeding. These include acetylsalicylic acid (ASA), P2Y<sub>12</sub> platelet 188 inhibitors, other antithrombotic agents, fibrinolytic therapy, selective serotonin reuptake inhibitors (SSRIs) or 189 serotonin norepinephrine reuptake inhibitors (SNRIs), and chronic nonsteroidal anti-inflammatory drugs 190 (NSAIDs) (see section 4.5). 191
  - 192 Prosthetic heart valves and moderate to severe mitral stenosis
  - 193 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 194
  - 195 to severe mitral stenosis. Therefore, use of edoxaban is not recommended in these patients.
  - 196 Haemodynamically unstable PE patients or patients who require thrombolysis or pulmonary embolectomy
  - 197 Lixiana is not recommended as an alternative to unfractionated heparin in patients with pulmonary embolism
  - 198 who are haemodynamically unstable or may receive thrombolysis or pulmonary embolectomy since the safety 199 and efficacy of edoxaban have not been established in these clinical situations.
  - 200 Patients with active cancer
  - 201 Efficacy and safety of edoxaban in the treatment and/or prevention of VTE in patients with active cancer have
  - not been established. 202

## 203 <u>Patients with antiphospholipid syndrome</u>

- 204 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
- 208 vitamin K antagonist therapy.

## 209 *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 assay which may help to inform clinical decisions in
- 212 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 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, medicines or disease conditions that increase gastric emptying and gut motility have the possibility of reducing edoxaban dissolution and absorption.

## 221 <u>P-gp inhibitors</u>

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.

- 226 Concomitant use of edoxaban with quinidine, verapamil, or amiodarone does not require dose reduction based227 on clinical data (see section 4.2).
- 228 The use of edoxaban with other P-gp inhibitors including HIV protease inhibitors has not been studied.
- Lixiana 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 C<sub>max</sub> 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<sub>max</sub> 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<sub>max</sub> 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<sub>max</sub> by 87% and 89%, respectively.
- 238 Lixiana 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<sub>max</sub> 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<sub>max</sub> 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.

## 247 <u>P-gp inducers</u>

- 248 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
- 252 P-gp inducers.

## 253 <u>*P-gp substrates*</u>

- 254 *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<sub>max</sub> of edoxaban by
- 256 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 Lixiana is administered with
- digoxin.

## 260 <u>Anticoagulants, antiplatelets, NSAIDs and SSRIs/SNRIs</u>

- Anticoagulants: Co-administration of edoxaban with other anticoagulants is contraindicated due to increased
   risk of bleeding (see section 4.3).
- Acetylsalicylic acid (ASA): Co-administration of ASA (100 mg or 325 mg) and edoxaban increased bleeding time relative to either medicine alone. Co-administration of high dose ASA (325 mg) increased the steady state C<sub>max</sub> 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.
- 268 In clinical studies concomitant use of ASA (low dose  $\leq 100 \text{ mg/day}$ ), 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).
- 271 Co-administration of low dose ASA ( $\leq 100$  mg) did not affect the peak or total exposure of edoxaban either 272 after single dose or at steady-state.
- 273 Edoxaban can be co-administered with low dose ASA ( $\leq 100 \text{ mg/day}$ ).
- 274 *Platelet inhibitors:* In ENGAGE AF-TIMI 48 concomitant use of thienopyridines (e.g. clopidogrel)
   275 monotherapy was permitted and resulted in increased clinically relevant bleeding although with a lower risk
   276 of bleeding on edoxaban compared to warfarin (see section 4.4).
- 277 There is very limited experience on the use of edoxaban with dual antiplatelet therapy or fibrinolytic agents.
- 278 NSAIDs: Co-administration of naproxen and edoxaban increased bleeding time relative to either medicine
- alone. Naproxen had no effect on the  $C_{max}$  and AUC of edoxaban. In clinical studies, co-administration of
- 280 NSAIDs resulted in increased clinically relevant bleeding. Chronic use of NSAIDs with edoxaban is not 281 recommended.
- 282 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).
  - 285 *Effect of edoxaban on other medicines*
  - 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.
  - 288 Edoxaban decreased the  $C_{max}$  and AUC of concomitantly administered verapamil by 14% and 16%, 289 respectively.

## 290 4.6 Fertility, pregnancy and lactation

- 291 <u>Woman of childbearing potential</u>
- 292 Women of childbearing potential should avoid becoming pregnant during treatment with edoxaban.
- 293 <u>Pregnancy</u>
- 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).
- 298 <u>Breast-feeding</u>
- 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.
- 303 Fertility
- No specific studies with edoxaban in humans have been conducted to evaluate effects on fertility. In a study
- 305 on male and female fertility in rats no effects were seen (see section 5.3).

## 306 4.7 Effects on ability to drive and use machines

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

## **308 4.8 Undesirable effects**

- 309 <u>Summary of the safety profile</u>
- 310 The safety of edoxaban has been evaluated in two Phase 3 studies including 21,105 patients with NVAF
- 311 (ENGAGE AF-TIMI 48 study), and 8,292 patients with VTE (DVT and PE) (Hokusai-VTE study).
- The average exposure to edoxaban 60 mg (including 30 mg dose reduced) was 2.5 years among 7,012 patients in ENGAGE AF-TIMI 48 and 251 days among 4,118 patients in Hokusai-VTE.
- Adverse reactions were experienced by 2,256 (32.2%) of the patients treated with edoxaban 60 mg (30 mg
- dose reduced) in the ENGAGE AF-TIMI 48 study and 1,249 (30.3%) in the Hokusai-VTE study.
- 316 In both studies, the most common adverse reactions related to bleeding with edoxaban 60 mg based on
- adjudicated terms included cutaneous soft tissue haemorrhage (up to 5.9%) and epistaxis (up to 4.7%), while
- vaginal haemorrhage (9.0%) was the most common bleeding-related adverse reaction in Hokusai-VTE only.
- Bleeding can occur at any site and may be severe and even fatal (see section 4.4).
- 320 Common other adverse reactions for edoxaban were anaemia, rash and abnormal liver function tests.
- 321 <u>Tabulated list of adverse reactions</u>
- Table 3 provides the list of adverse reactions from the two pivotal Phase 3 studies in patients with VTE (DVT
- and PE) (Hokusai-VTE study) and AF (ENGAGE AF-TIMI 48 study) combined for both indications. The
- 324 adverse reactions are classified by System Organ Class and frequency, using the following convention:
- 325 Very common ( $\geq 1/10$ ), Common ( $\geq 1/100$  to < 1/10), Uncommon ( $\geq 1/1,000$  to < 1/100), Rare ( $\geq 1/10,000$  to
- < 1/1,000), Very rare (< 1/10,000), not known (cannot be estimated from the available data).

## 327 Table 3: List of adverse reactions for NVAF and VTE

System Organ Class	Frequency
Blood and lymphatic system disorders	
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
Transaminases increased	Uncommon
Aspartate aminotransferase 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

System Organ Class	Frequency
Intra-articular haemorrhage	Rare
Renal and urinary disorders	
Macroscopic haematuria/urethral haemorrhage	Common
Reproductive system and breast disorders	
Vaginal haemorrhage <sup>1</sup>	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

Reporting rates are based on the female population in clinical trials. 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.

## 330 Description of selected adverse reactions

Due to the pharmacological mode of action, the use of Lixiana may be associated with an increased risk of 331 occult or overt bleeding from any tissue or organ which may result in post haemorrhagic anaemia. The signs, 332 333 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 Management of bleeding). In the clinical studies mucosal 334 bleedings (e.g. epistaxis, gastrointestinal, genitourinary) and anaemia were seen more frequently during long 335 term edoxaban treatment compared with VKA treatment. Thus, in addition to adequate clinical surveillance, 336 laboratory testing of haemoglobin/haematocrit could be of value to detect occult bleeding, as judged to be 337 338 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 339 340 Haemorrhagic risk in section 4.4). Menstrual bleeding may be intensified and/or prolonged. Haemorrhagic 341 complications may present as weakness, paleness, dizziness, headache or unexplained swelling, dyspnoea, and 342 unexplained shock.

343 Known complications secondary to severe bleeding such as compartment syndrome and renal failure due to

344 hypoperfusion have been reported for Lixiana. Therefore, the possibility of haemorrhage is to be considered

in evaluating the condition in any anticoagulated patient.

## 346 4.9 Overdose

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

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

349 Early administration of activated charcoal may be considered in case of edoxaban overdose to reduce

absorption. This recommendation is based on standard treatment of drug overdose and data available with

similar compounds, as the use of activated charcoal to reduce absorption of edoxaban has not been specifically

352 studied in the edoxaban clinical programme.

## 353 <u>Management</u> of bleeding

354 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

357 haemorrhage. Appropriate symptomatic treatment could be used as needed, such as mechanical compression

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- (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.
- 361 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 Lixiana 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.
- 366 Depending on local availability, a consultation with a coagulation expert should be considered in case of major367 bleedings.
- 368 Protamine sulfate and vitamin K are not expected to affect the anticoagulant activity of edoxaban.
- 369 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.

## 373 5. PHARMACOLOGICAL PROPERTIES

## 374 5.1 Pharmacodynamic properties

- 375 Pharmacotherapeutic group: Other antithrombotic agents, ATC code: B01AF03
- 376 <u>Mechanism of action</u>
- 377 Edoxaban is a highly selective, direct and reversible inhibitor of factor Xa, the serine protease located in the
- 378 final common pathway of the coagulation cascade. Edoxaban inhibits free factor Xa, and prothrombinase
- activity. Inhibition of factor Xa in the coagulation cascade reduces thrombin generation, prolongs clotting time
- and reduces the risk of thrombus formation.
- 381 <u>Pharmacodynamic effects</u>
- 382 Edoxaban produces rapid onset of pharmacodynamic effects within 1 2 hours, which corresponds with peak 383 edoxaban exposure ( $C_{max}$ ). The pharmacodynamic effects measured by anti-factor Xa assay are predictable and
- 384 correlate with the dose and the concentration of edoxaban. As a result of FXa inhibition, edoxaban also
- prolongs clotting time in tests such as prothrombin time (PT), and activated partial thromboplastin time (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.
- 388 Effects of coagulation markers when switching from rivaroxaban, dabigatran, or apixaban to edoxaban
- 389 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 prothrombin time (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
- 392 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
- 395 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).

## 398 <u>Clinical efficacy and safety</u>

### **399** *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 nonvalvular atrial fibrillation 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 404 double-dummy parallel-group study), 21,105 subjects, with a mean CHADS<sub>2</sub> score of 2.8, were randomised to 405 406 either edoxaban 30 mg once daily treatment group, or edoxaban 60 mg once daily treatment group or warfarin. 407 Subjects in both edoxaban treatment groups had their dose halved if one or more of the following clinical 408 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, 409 quinidine, dronedarone). 410

411 The primary efficacy endpoint was the composite of stroke and SEE. Secondary efficacy endpoints included:

412 Composite of stroke, SEE, and cardiovascular (CV) mortality; major adverse cardiovascular event (MACE),

which is the composite of non-fatal MI, non-fatal stroke, non-fatal SEE, and death due to CV cause or bleeding;

414 composite of stroke, SEE, and all-cause mortality.

The median study drug 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,

418 the median s 419 respectively.

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

421 The main analysis of efficacy was aimed to show the non-inferiority of edoxaban versus warfarin on first stroke

422 or SEE that occurred during treatment or within 3 days from the last dose taken in the modified intention-to-

423 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 HR was below the pre-specified non-inferiority margin of

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425 1.38) (Table 4).

Primary Endpoint	Edoxaban 60 mg (30 mg Dose Reduced) (N = 7,012)	Warfarin (N = 7,012)	
First Stroke/SEE <sup>a</sup>			
n	182	232	
Event Rate (%/yr) <sup>b</sup>	1.18	1.50	
HR (97.5% CI)	0.79 (0.63, 0.99)		
p-value for non-inferiority <sup>c</sup>	<0.0001		
First Ischaemic Stroke			
n	135	144	
Event Rate (%/yr) <sup>b</sup>	0.87	0.93	
HR (95% CI)	0.94 (0.75, 1.19)		
First Haemorrhagic Stroke			
n	40	76	
Event Rate (%/yr) <sup>b</sup>	0.26	0.49	
HR (95% CI)	0.53 (0.36, 0.78)		
First SEE			
n (%/yr) <sup>a</sup>	8 (0.05)	13 (0.08)	
HR (95% CI)	0.62 (0.26, 1.50)		

#### Table 4: Strokes and Systemic Embolic Events in the ENGAGE AF-TIMI 48 Study (mITT, 426 427 on-treatment)

428 Abbreviations: HR = Hazard Ratio versus warfarin, CI = Confidence Interval, n = number of events, mITT = modified Intent To 429 Treat, N = number of subjects in mITT population, SEE = Systemic Embolic Event, yr = year.

430 A subject can be represented in multiple rows.

b 431 The event rate (%/yr) is calculated as number of events/subject-year exposure.

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

433 During the overall study period in the ITT population (analysis set to show superiority), adjudicated stroke or 434 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 0.87435 (99% CI: 0.71, 1.07, p = 0.08 for superiority). 436

437 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 438 P-gp inhibitors), the event rate was: 2.29% per year for the primary endpoint, compared to the event rate of 439 2.66% per year for the matching subjects in the warfarin group [HR (95% CI): 0.86 (0.66, 1.13)]. 440

The efficacy results for pre-specified major subgroups (with dose reduction as required), including age, body 441 weight, gender, status of renal function, prior stroke or TIA, diabetes and P-gp inhibitors were generally 442 443 consistent with the primary efficacy results for the overall population studied in the trial.

The Hazard Ratio (Edoxaban 60 mg vs. warfarin) for the primary endpoint in the centres with a lower average 444 time of INR in the target range (INR TTR) for warfarin was 0.73 – 0.80 for the lowest 3 quartiles (INR TTR) 445  $\leq$  57.7% to  $\leq$  73.9%). It was 1.07 in centres with the best control of warfarin therapy (4<sup>th</sup> quartile with > 73.9%) 446 447 of INR values in the therapeutic range).

- There was a statistically significant interaction between the effect of edoxaban versus warfarin on the main 448 449 study outcome (stroke/SEE) and renal function (p-value 0.0042; mITT, overall study period).
- Table 5 shows ischaemic strokes/SEE by creatinine clearance category in NVAF patients in ENGAGE AF-450 451

TIMI 48. There is a decreasing event rate at increasing CrCL in both treatment groups.

# Table 5: Number of Ischaemic Strokes/SEE by creatinine clearance category in ENGAGE AF-TIMI 48, mITT Analysis Set Overall Study

CrCL subgroup	Edoxat $(N = 7, 0)$	oan 60 mg 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	63	1.89	1,305	67	2.05	0.93 (0.66, 1.31)
$> 50$ to $\le 70$	2,093	85	1.51	2,106	95	1.70	0.88 (0.66, 1.18)
$> 70$ to $\le 90$	1,661	45	0.99	1,703	50	1.08	0.92 (0.61, 1.37)
$> 90$ 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	*

454 Abbreviations: N = number of subjects; mITT population overall study period; n = number of patients in subgroup

456 Within renal function subgroups, results for the secondary efficacy endpoints were consistent with those for 457 the primary endpoint.

- 458 Superiority testing was performed on the ITT Overall Study Period.
- 459 Stroke and SEE occurred in fewer subjects in the edoxaban 60 mg treatment group than in the warfarin group
- 460 (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).

461 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,

- 463 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)].
- 467 All-cause mortality (adjudicated deaths) per renal subgroups (edoxaban vs. warfarin): CrCL 30 to  $\leq$  50 mL/min
- 468 [HR (95% CI): 0.81 (0.68, 0.97)]; CrCL > 50 to < 80 mL/min [HR (95% CI): 0.87 (0.75, 1.02)]; CrCL  $\ge 80$  mL/min [HR (95% CI): 1.15 (0.95, 1.40)].
- 470 Edoxaban 60 mg (30 mg dose reduced) resulted in a lower rate of cardiovascular mortality compared to 471 warfarin [HR (95% CI): 0.86 (0.77, 0.97)].
- 472 Adjudicated efficacy cardiovascular mortality per renal subgroups (edoxaban vs. warfarin): CrCL 30 to  $\leq$  50
- 473 mL/min [HR (95% CI): 0.80 (0.65, 0.99)]; CrCL > 50 to < 80 mL/min [HR (95% CI): 0.75 (0.62, 0.90)];
- 474  $CrCL \ge 80 \text{ mL/min} [HR (95\% \text{ CI}): 1.16 (0.92, 1.46)].$
- 475 *Safety in patients with NVAF in ENGAGE AF-TIMI 48*
- 476 The primary safety endpoint was major bleeding.
- 477 There was a significant risk reduction in favour of the edoxaban 60 mg treatment group compared with the
- 478 warfarin group in major bleeding (2.75%, and 3.43% per year, respectively) [HR (95% CI): 0.80 (0.71, 0.91);
- 479 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
- 480 other types of bleeding (Table 6).

<sup>455 \*</sup>HR not computed if number of events < 5 in one treatment group.

- 481 The reduction in fatal bleeds was also significant for the edoxaban 60 mg treatment group compared with the
- 482 warfarin group (0.21%, and 0.38%) [HR (95% CI): 0.55 (0.36, 0.84); p = 0.0059 for superiority], primarily
- 483 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 484

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

- 485 Abbreviations: ICH = Intracranial Haemorrhage, HR = Hazard Ratio versus warfarin,
- 486 CI = Confidence Interval, CRNM = Clinically Relevant Non-Major,
- 487 n = number of subjects with events, N = number of subjects in Safety population, yr = year.
- 488 The event rate (%/yr) is calculated as number of events/subject-year exposure.
- 489 b ICH includes primary haemorrhagic stroke, subarachnoid haemorrhage, epi-/subdural haemorrhage, and ischaemic stroke with 490 major haemorrhagic conversion. All ICHs reported on the Adjudicated Cerebrovascular and Non-Intracranial bleed eCRF forms 491 confirmed by the adjudicators are included in ICH counts.
- <sup>c</sup> 'Any Confirmed Bleeding' includes those that the adjudicator defined as clinically overt. 492
- 493 Note: A subject can be included in multiple sub-categories if he/she categories. had event for those an 494 The first event of each category is included in the analysis.
- 495 Tables 7, 8 and 9 show major, fatal and intracranial bleedings, respectively, by creatinine clearance category in NVAF patients in ENGAGE AF-TIMI 48. There is a decreasing event rate at increasing CrCL in both 496 497

## Table 7: Number of Major Bleeding Events by creatinine clearance category in ENGAGE AF-TIMI 48, Safety Analysis On-Treatment<sup>a</sup>

CrCL subgroup	Edoxat (N = 7,	oan 60 mg 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	96	3.91	1,305	128	5.23	0.75 (0.58, 0.98)
$> 50$ to $\le 70$	2,093	148	3.31	2,106	171	3.77	0.88 (0.71, 1.10)
$> 70$ to $\le 90$	1,661	108	2.88	1,703	119	3.08	0.93 (0.72, 1.21)
$> 90$ to $\le 110$	927	29	1.33	960	56	2.48	0.54 (0.34, 0.84)
$> 110$ 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 creatinine clearance category in ENGAGE AF-TIMI 48, Safety Analysis On-Treatment<sup>a</sup>

CrCL subgroup	Edoxaban 60 mg (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)
$> 50$ to $\le 70$	2,093	8	0.18	2,106	23	0.50	0.35 (0.16, 0.79)
$> 70$ 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 creatinine clearance category in ENGAGE AF TIMI 48, Safety Analysis On-Treatment<sup>a</sup>

CrCL subgroup	Edoxaban 60 mg (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	16	0.64	1,305	35	1.40	0.45 (0.25, 0.81)
$> 50$ to $\le 70$	2,093	19	0.42	2,106	51	1.10	0.38 (0.22, 0.64)
$> 70$ to $\le 90$	1,661	17	0.44	1,703	35	0.89	0.50 (0.28, 0.89)
$> 90$ 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; mITT population overall study period; n = number of patients in subgroup

\*HR not computed if number of events < 5 in one treatment group.

<sup>a</sup> On-Treatment: Time from first dose of study drug to last dose plus 3 days.

507 In subgroup analyses, for subjects in the 60 mg treatment group who were dose reduced to 30 mg in the 508 ENGAGE AF-TIMI 48 study for body weight  $\leq$  60 kg, moderate renal impairment, or concomitant use of P-gp 509 inhibitors, 104 (3.05% per year) of edoxaban 30 mg dose reduced subjects and 166 (4.85% per year) of 510 warfarin dose reduced subjects had a major bleeding event [HR (95% CI): 0.63 (0.50, 0.81)].

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511 In the ENGAGE AF-TIMI 48 study there was a significant improvement in Net Clinical Outcome (First

- 512 Stroke, SEE, Major Bleed, or All-Cause Mortality; mITT population, overall study period) in favour of 513 edoxaban, HR (95% CI): 0.89 (0.83, 0.96); p = 0.0024, when edoxaban 60 mg treatment group was compared
- to warfarin.

## 515 *Treatment of DVT, treatment of PE and the prevention of recurrent DVT and PE (VTE)*

- The edoxaban clinical programme for VTE was designed to demonstrate the efficacy and safety of edoxabanin 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,
  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 (time in therapeutic range, 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)].

## 540 Table 10: Efficacy Results from the Hokusai-VTE Study - mITT population, overall study period

Primary endpoint <sup>a</sup>	Edoxaban 60 mg (30 mg Dose Reduced) (N = 4,118)	Warfarin (N = 4,122)	Edoxaban vs Warfarin HR (95% CI) <sup>b</sup> p-value <sup>c</sup>
All subjects with symptomatic recurrent VTE <sup>c</sup> , 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)	

541 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.

- 544 <sup>a</sup> The primary efficacy endpoint is adjudicated symptomatic recurrent VTE (i.e., the composite endpoint of DVT, non-fatal PE, and fatal PE).
- 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).
- 549 <sup>b</sup> The p-value is for the pre-defined non-inferiority margin of 1.5.
- 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 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.
- 563 Safety in patients with VTE (DVT and PE) in Hokusai-VTE
- 564 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.
- 566 There was a significant risk reduction in favour of edoxaban compared with warfarin for the primary safety
- 567 endpoint of clinically relevant bleeding, a composite of major bleeding or clinically relevant non-major

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- bleeding (CRNM), 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].

	Edoxaban 60 mg (30 mg Dose Reduced)	Warfarin
	(N = 4,118)	(N = 4,122)
Clinically Relevant Bleeding (Major and CRNM) <sup>b</sup> , 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)	

## 570 Table 11: Bleeding Events in Hokusai-VTE Study - Safety Analysis On-Treatment Period<sup>a</sup>

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

<sup>a</sup> On-Treatment Period: Time from first dose of study drug to last dose plus 3 days.

<sup>b</sup> Primary Safety Endpoint: Clinically relevant bleeding (composite of major and clinically relevant non-major bleeding).

575 In subgroup analyses, for subjects who were dose reduced to 30 mg in the Hokusai-VTE study for body weight 576  $\leq 60$  kg, moderate renal impairment, or concomitant use of P-gp inhibitors, 58 (7.9%) of edoxaban 30 mg dose 577 reduced subjects and 92 (12.8%) of warfarin subjects had a major bleeding or CRNM event [HR (95%): 0.62 578 (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.

## 582 Patients undergoing cardioversion

A multicentre, prospective, randomised, open-label study with blinded endpoint evaluation (ENSURE-AF) 583 was conducted which randomised 2199 subjects (oral anticoagulant naïve and pre-treated) with non-valvular 584 atrial fibrillation scheduled for cardioversion, to compare edoxaban 60 mg once daily with enoxaparin/warfarin 585 to maintain a therapeutic INR of 2.0 to 3.0 (randomised 1:1), mean TTR on warfarin was 70.8%. A total of 586 587 2149 subjects were treated with either edoxaban (N = 1067) or enoxaparin/warfarin (N = 1082). Subjects in 588 the edoxaban treatment group received 30 mg once daily if one or more of the following clinical factors were 589 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 590 performed (83.7% and 78.9%, respectively) or were auto-converted (6.6% and 8.6%, respectively). TEE-591 592 guided (within 3 days of initiation) or conventional cardioversion (at least 21 days of pre-treatment) was 593 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); OR 0.46 (95% CI 0.12 - 1.43); ITT analysis

597 set overall study period with mean duration of 66 days.

- 598 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% -599 1.81%) events in the warfarin (N = 1082) group; OR 1.48 (95% CI 0.64 - 3.55); safety analysis set on-treatment 600 601 period.
- This exploratory study showed low rates of major and CRNM bleeding and thromboembolism in the two 602 treatment groups in the setting of cardioversion. 603
- 604 Paediatric population
- 605 The European Medicines Agency has deferred the obligation to submit the results of studies with edoxaban in
- one or more subsets of the paediatric population in prevention of arterial thrombosis, treatment of 606
- thromboembolism and prevention of thromboembolism (see section 4.2 for information on paediatric use). 607

#### 5.2 **Pharmacokinetic properties** 608

- 609 Absorption
- 610 Edoxaban is absorbed with peak plasma concentrations within 1 - 2 hours. The absolute bioavailability is
- 611 approximately 62%. Food increases peak exposure 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-
- 612 VTE studies. Edoxaban is poorly soluble at pH of 6.0 or higher. Co-administration of proton-pump inhibitors 613
- 614
- had no relevant impact on edoxaban exposure.

#### 615 Distribution

- Disposition is biphasic. The volume of distribution is 107 (19.9) L mean (SD). 616
- In vitro plasma protein binding is approximately 55%. There is no clinically relevant accumulation of edoxaban 617
- (accumulation ratio 1.14) with once daily dosing. Steady state concentrations are achieved within 3 days. 618
- Biotransformation 619
- 620 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 621
- 622 metabolites, the predominant metabolite (M-4), formed by hydrolysis, is active and reaches less than 10% of
- 623 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-glycoprotein (P-gp), but not a substrate for uptake 624 transporters such as organic anion transporter polypeptide OATP1B1, organic anion transporters OAT1 or 625
- 626 OAT3 or organic cation transporter OCT2. Its active metabolite is a substrate for OATP1B1.
- 627 **Elimination**
- In healthy subjects, the total clearance is estimated as  $22 (\pm 3)$  L/hour; 50% is renally cleared (11 L/hour). 628
- 629 Renal clearance accounts for approximately 35% of the administered dose. Metabolism and biliary/intestinal
- 630 excretion account for the remaining clearance. The  $t_{1/2}$  for oral administration is 10 - 14 hours.
- Linearity/non-linearity 631
- Edoxaban displays approximately dose-proportional pharmacokinetics for doses of 15 mg to 60 mg in healthy 632 633 subjects.
- Special populations 634
- Elderly 635
- 636 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
- 637 638 (ENGAGE AF-TIMI 48).

## 639 Gender

- 640 After accounting for body weight, gender had no additional clinically significant effect on edoxaban
- 641 pharmacokinetics in a population pharmacokinetic analysis of the Phase 3 study in NVAF (ENGAGE AF-642 TIMI 48).
- 643 *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.
- 646 *Renal impairment*
- 647 The plasma AUCs for subjects with mild (CrCL > 50 80 mL/min), moderate (CrCL 30 50 mL/min) and 648 severe (CrCL < 30 mL/min but not undergoing dialysis) renal impairment were increased by 32%, 74%, and 649 72%, respectively, relative to subjects with normal renal function. In patients with renal impairment the 650 metabolite profile changes and a higher quantity of active metabolites are formed.
- 655 Interesting of the changes and a higher quantity of active metabolites are formed.
  651 There is a linear correlation between edoxaban plasma concentration and anti-FXa activity regardless of renal
- 652 function.
- 53 Subjects with ESRD undergoing peritoneal dialysis had 93% higher total exposure compared with healthy 54 subjects.
- 655 Population PK modeling indicates that exposure approximately doubles in patients with severe renal

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- 656 impairment (CrCL 15 29 mL/min) relative to patients with normal renal function.
- 657 Anti-FXa activity by CrCL category
- Table 12 below shows the edoxaban anti-Factor Xa activity by CrCL category for each indication.

Edoxaban Dose	CrCL (mL/min)	Edoxaban Anti-FXa activity post-dose (IU/mL) <sup>1</sup>	Edoxaban Anti-FXa activity pre-dose (IU/mL) <sup>2</sup>
	Median [2.5 – 97.5	5% range]	
Prevention of str	oke and systemic embo	lism: NVAF	
30 mg QD	$\geq 30 \text{ to} \leq 50$	2.92 [0.33 – 5.88]	0.53 [0.11 – 2.06]
60 mg QD*	$> 50$ to $\le 70$	4.52 [0.38 – 7.64]	0.83 [0.16 – 2.61]
	$> 70$ to $\le 90$	4.12 [0.19 – 7.55]	0.68 [0.05 – 2.33]
	$> 90 \text{ to} \le 110$	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 DV	/T, treatment of PE and	prevention of recurrent DV	T and PE (VTE)
30 mg QD	$\geq$ 30 to $\leq$ 50	2.21 [0.14 – 4.47]	0.22 [0.00 – 1.09]
60 mg QD*	$> 50$ to $\le 70$	3.42 [0.19 – 6.13]	0.34 [0.00 – 3.10]
	$> 70$ to $\le 90$	2.97 [0.24 – 5.82]	0.24 [0.00 – 1.77]
	$> 90 \text{ to} \le 110$	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]

#### 659 Table 12: Edoxaban Anti-FXa activity by creatinine clearance

660 \*Dose reduction to 30 mg for low body weight  $\leq 60$  kg or specific concomitant P-glycoprotein (P-gp) inhibitors

661 <sup>1</sup> Post-dose is equivalent to  $C_{max}$  (post-dose samples were drawn 1 – 3 hours after edoxaban administration)

662 <sup>2</sup> Pre-dose is equivalent to C<sub>min</sub>

663 Although treatment with edoxaban does not require routine monitoring, the effect on anticoagulation can be estimated by a calibrated quantitative anti-Factor Xa assay which may be useful in exceptional situations where 664 knowledge of edoxaban exposure may help to inform clinical decisions, e.g. overdose and emergency surgery 665

666 (see also section 4.4).

#### 667 Haemodialysis

- 668 A 4 hour haemodialysis session reduced total edoxaban exposures by less than 9%.
- 669 *Hepatic impairment*

Patients with mild or moderate hepatic impairment exhibited comparable pharmacokinetics and 670 pharmacodynamics to their matched healthy control group. Edoxaban has not been studied in patients with 671

severe hepatic impairment (see section 4.2). 672

- 673 Body weight
- In a population pharmacokinetic analysis of the ENGAGE AF-TIMI 48 study in NVAF, C<sub>max</sub> and AUC in 674 675
  - patients with median low body weight (55 kg) were increased by 40% and 13%, respectively, as compared

- 676 with patients with median high body weight (84 kg). In Phase 3 clinical studies (both NVAF and VTE
- 677 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.
- 679 <u>Pharmacokinetic/pharmacodynamic relationship(s)</u>
- 680 PT, INR, aPTT and Anti-factor Xa correlate linearly with edoxaban concentrations.

## 681 **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.
- 684 *Reproductive toxicology*
- Edoxaban showed vaginal haemorrhage at higher doses in rats and rabbits but had no effects in the reproductiveperformance of parent rats.
- 687 In rats, no effects on male or female fertility were seen.

In animal reproduction studies, rabbits showed increased incidence of gallbladder variations at a dosage 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/m<sup>2</sup>. 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.

693 Edoxaban was excreted in the breast milk of lactating rats.

## 694 6. PHARMACEUTICAL PARTICULARS

- 695 6.1 List of excipients
- 696 <u>Tablet core:</u>
- 697 Mannitol (E421)
- 698 Pregelatinised starch
- 699 Crospovidone
- 700 Hydroxypropylcellulose
- 701 Magnesium stearate (E470b)
- 702 <u>Film-coat:</u>
- 703 Hypromellose (E464)
- 704 Macrogol 8000
- 705 Titanium dioxide (E171)
- 706 Talc
- 707 Carnauba wax
- 70815 mg and 60 mg film-coated tablets: Iron oxide yellow (E172)
- 70915 mg and 30 mg film-coated tablets: Iron oxide red (E172)

## 710 6.2 Incompatibilities

711 Not applicable.

## 712 6.3 Shelf life

713 Please refer to outer box

## 714 6.4 Special precautions for storage

715 This medicinal product does not require any special storage conditions.

## 716 6.5 Nature and contents of container

- 15 mg film-coated tablets: PVC/Aluminium blisters. Cartons of 14 film-coated tablets
- 30 mg and 60 mg film-coated tablets: PVC/Aluminium blisters. Cartons of 28 film coated tablets.

## 719 6.6 Special precautions for disposal

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

## 721 7. MARKETING AUTHORISATION HOLDER

- 722 DAIICHI SANKYO (THAILAND) LTD.
- 723 24th Fl., United Center Bldg.,
- 724 323, Silom Rd., Silom, Bangrak, Bangkok, 10500,
- 725 Thailand
- 726 Tel.: +66 2631-2070-9 FAX:+66 2236-2656

## 727 8. MARKETING AUTHORISATION NUMBER(S)

- 728 15 mg film-coated tablets: 1C 104/59(NC)
- 729 30 mg film-coated tablets: 1C 105/59(NC)
- 73060 mg film-coated tablets: 1C 106/59(NC)

## 731 9. MANUFACTURER

- 732 Daiichi Sankyo Europe GmbH
- 733 Luitpoldstrasse 1
- **734** 85276
- 735 Pfaffenhofen, Germany

## 736 10. DATE OF AUTHORISATION

**737** 2 December 2016

## 738 11. DATE OF REVISION OF THE TEXT

**739** August 2019