

DABIGATRAN ETEXILATE - dabigatran etexilate capsule

Alembic Pharmaceuticals Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use DABIGATRAN ETEXILATE CAPSULES safely and effectively. See full prescribing information for DABIGATRAN ETEXILATE CAPSULES.

DABIGATRAN ETEXILATE capsules, for oral use
Initial U.S. Approval: 2010

WARNING: (A) PREMATURE DISCONTINUATION OF DABIGATRAN ETEXILATE CAPSULES INCREASES THE RISK OF THROMBOTIC EVENTS, and (B) SPINAL/EPIDURAL HEMATOMA

See full prescribing information for complete boxed warning

(A) PREMATURE DISCONTINUATION OF DABIGATRAN ETEXILATE CAPSULES INCREASES THE RISK OF THROMBOTIC EVENTS: Premature discontinuation of any oral anticoagulant, including dabigatran etexilate capsules, increases the risk of thrombotic events. To reduce this risk, consider coverage with another anticoagulant if dabigatran etexilate capsules are discontinued for a reason other than pathological bleeding or completion of a course of therapy (2.6, 2.7, 2.8, 5.1).

(B) SPINAL/EPIDURAL HEMATOMA: Epidural or spinal hematomas may occur in patients treated with dabigatran etexilate capsules who are receiving neuraxial anesthesia or undergoing spinal puncture. These hematomas may result in long-term or permanent paralysis (5.3). Monitor patients frequently for signs and symptoms of neurological impairment and if observed, treat urgently. Consider the benefits and risks before neuraxial intervention in patients who are or who need to be anticoagulated (5.3).

INDICATIONS AND USAGE

Dabigatran etexilate capsules are a direct thrombin inhibitor indicated:

- To reduce the risk of stroke and systemic embolism in adult patients with non-valvular atrial fibrillation (1.1)
- For the treatment of deep venous thrombosis (DVT) and pulmonary embolism (PE) in adult patients who have been treated with a parenteral anticoagulant for 5 to 10 days (1.2)
- To reduce the risk of recurrence of DVT and PE in adult patients who have been previously treated (1.3) (1)

DOSAGE AND ADMINISTRATION

- Non-valvular Atrial Fibrillation in Adult Patients:
 - For patients with CrCl >30 mL/min: 150 mg orally, twice daily (2.2)
 - For patients with CrCl 15 to 30 mL/min: 75 mg orally, twice daily (2.2)
- Treatment of DVT and PE in Adult Patients:
 - For patients with CrCl >30 mL/min: 150 mg orally, twice daily after 5 to 10 days of parenteral anticoagulation (2.2)
- Reduction in the Risk of Recurrence of DVT and PE in Adult Patients:
 - For patients with CrCl >30 mL/min: 150 mg orally, twice daily after previous treatment (2.2) (2)
- Dabigatran etexilate capsules are NOT substitutable on a milligram-to-milligram basis with other dabigatran etexilate dosage forms
- Review recommendations for converting to or from other oral or parenteral anticoagulants (2.6, 2.7)
- Temporarily discontinue dabigatran etexilate capsules before invasive or surgical procedures when possible, then restart promptly (2.8) (2)

DOSAGE FORMS AND STRENGTHS

Capsules: 75 mg and 150 mg (3) (3)

CONTRAINDICATIONS

- Active pathological bleeding (4)
- History of serious hypersensitivity reaction to dabigatran etexilate capsules (4)
- Mechanical prosthetic heart valve (4) (4)

WARNINGS AND PRECAUTIONS

- Bleeding: Dabigatran etexilate can cause serious and fatal bleeding (5.2)
- Bioprosthetic heart valves: Dabigatran etexilate use not recommended (5.4)
- Increased Risk of Thrombosis in Patients with Triple-Positive Antiphospholipid Syndrome: Dabigatran etexilate use not recommended (5.6)

ADVERSE REACTIONS

Most common adverse reactions (>15%) are gastrointestinal adverse reactions and bleeding (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Alembic Pharmaceuticals Limited at 1-866-210-9797 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. (6)

DRUG INTERACTIONS

- P-gp inducers: Avoid coadministration with dabigatran etexilate capsules (5.5)
- P-gp inhibitors in adult patients with CrCl 30 to 50 mL/min: Reduce dosage or avoid (7)
- P-gp inhibitors in adult patients with CrCl <30 mL/min: Not recommended (7) (7)

USE IN SPECIFIC POPULATIONS

Lactation: Breastfeeding not recommended (8.2)

Geriatric Use: Risk of bleeding increases with age (8.5) (8)

Pediatric use information is approved for Boehringer Ingelheim Pharmaceuticals, Inc.'s Pradaxa (dabigatran etexilate) capsules. However, due to Boehringer Ingelheim Pharmaceuticals, Inc.'s marketing exclusivity rights, this drug product is not labeled with that information. (8)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 6/2024

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FULL PRESCRIBING INFORMATION

WARNING: (A) PREMATURE DISCONTINUATION OF DABIGATRAN ETEXILATE CAPSULES INCREASES THE RISK OF THROMBOTIC EVENTS, and (B) SPINAL/EPIDURAL HEMATOMA

(A) PREMATURE DISCONTINUATION OF DABIGATRAN ETEXILATE CAPSULES INCREASES THE RISK OF THROMBOTIC EVENTS

Premature discontinuation of any oral anticoagulant, including dabigatran etexilate capsules, increases the risk of thrombotic events. If anticoagulation with dabigatran etexilate capsules are discontinued for a reason other than pathological bleeding or completion of a course of therapy, consider coverage with another anticoagulant [see *Dosage and Administration (2.6, 2.7, 2.8) and Warnings and Precautions (5.1)*].

(B) SPINAL/EPIDURAL HEMATOMA

Epidural or spinal hematomas may occur in patients treated with dabigatran etexilate capsules who are receiving neuraxial anesthesia or undergoing spinal puncture. These hematomas may result in long-term or permanent paralysis. Consider these risks when scheduling patients for spinal procedures. Factors that can increase the risk of developing epidural or spinal hematomas in these patients include:

- use of indwelling epidural catheters
- concomitant use of other drugs that affect hemostasis, such as non-steroidal anti-inflammatory drugs (NSAIDs), platelet inhibitors, other anticoagulants
- a history of traumatic or repeated epidural or spinal punctures
- a history of spinal deformity or spinal surgery
- optimal timing between the administration of dabigatran etexilate capsules and neuraxial procedures is not known [see *Warnings and Precautions (5.3)*].

Monitor patients frequently for signs and symptoms of neurological impairment. If neurological compromise is noted, urgent treatment is necessary [see *Warnings and Precautions (5.3)*].

Consider the benefits and risks before neuraxial intervention in patients anticoagulated or to be anticoagulated [see *Warnings and Precautions (5.3)*].

1 INDICATIONS AND USAGE

1.1 Reduction of Risk of Stroke and Systemic Embolism in Non-valvular Atrial Fibrillation in Adult Patients

Dabigatran etexilate capsules are indicated to reduce the risk of stroke and systemic embolism in adult patients with non-valvular atrial fibrillation.

1.2 Treatment of Deep Venous Thrombosis and Pulmonary Embolism in Adult Patients

Dabigatran etexilate capsules are indicated for the treatment of deep venous thrombosis and pulmonary embolism in adult patients who have been treated with a parenteral anticoagulant for 5 to 10 days.

1.3 Reduction in the Risk of Recurrence of Deep Venous Thrombosis and Pulmonary Embolism in Adult Patients

Dabigatran etexilate capsules are indicated to reduce the risk of recurrence of deep venous thrombosis and pulmonary embolism in adult patients who have been previously treated.

Pediatric use information is approved for Boehringer Ingelheim Pharmaceuticals, Inc.'s Pradaxa (dabigatran etexilate) capsules. However, due to Boehringer Ingelheim Pharmaceuticals, Inc.'s marketing exclusivity rights, this drug product is not labeled with that information.

2 DOSAGE AND ADMINISTRATION

2.1 Important Dosage Information

Dabigatran etexilate is available in different dosage forms and not all dosage forms are approved for the same indications and age groups. In addition, there are differences between the dosage forms with respect to dosing due to differences in bioavailability. Do not substitute different dosage forms on a milligram-to-milligram basis and do not combine more than one dosage form to achieve the total dose [see *Clinical Pharmacology* (12.3)].

2.2 Recommended Dabigatran Etexilate Capsules Dosage for Adults

Indication	Dosage	
Reduction in Risk of Stroke and Systemic Embolism in Non-valvular AF	CrCl >30 mL/min:	150 mg twice daily
	CrCl 15 to 30 mL/min:	75 mg twice daily
	CrCl <15 mL/min or on dialysis:	Dosing recommendations cannot be provided
	CrCl 30 to 50 mL/min with concomitant use of P-gp inhibitors:	Reduce dosage to 75 mg twice daily if given with P-gp inhibitors dronedarone or systemic ketoconazole.
	CrCl <30 mL/min with concomitant use of P-gp inhibitors:	Avoid coadministration
Treatment of DVT and PE Reduction in the Risk of Recurrence of DVT and PE	CrCl >30 mL/min:	150 mg twice daily
	CrCl ≤30 mL/min or on dialysis:	Dosing recommendations cannot be provided
	CrCl <50 mL/min with concomitant use of P-gp inhibitors:	Avoid coadministration

Reduction of Risk of Stroke and Systemic Embolism in Non-valvular Atrial Fibrillation in Adult Patients

For patients with creatinine clearance (CrCl) >30 mL/min, the recommended dosage of dabigatran etexilate capsules are 150 mg taken orally, twice daily. For patients with severe renal impairment (CrCl 15 to 30 mL/min), the recommended dosage of dabigatran etexilate capsules are 75 mg twice daily [see *Use in Specific Populations* (8.6) and *Clinical Pharmacology* (12.3)]. Dosing recommendations for patients with a CrCl <15 mL/min or on dialysis cannot be provided.

Treatment of Deep Venous Thrombosis and Pulmonary Embolism in Adult Patients

For patients with CrCl >30 mL/min, the recommended dosage of dabigatran etexilate capsules are 150 mg taken orally, twice daily, after 5 to 10 days of parenteral anticoagulation. Dosing recommendations for patients with a CrCl ≤30 mL/min or on dialysis cannot be provided [see *Use in Specific Populations (8.6)* and *Clinical Pharmacology (12.3)*].

Reduction in the Risk of Recurrence of Deep Venous Thrombosis and Pulmonary Embolism in Adult Patients

For patients with CrCl >30 mL/min, the recommended dosage of dabigatran etexilate capsules are 150 mg taken orally, twice daily after previous treatment. Dosing recommendations for patients with a CrCl ≤30 mL/min or on dialysis cannot be provided [see *Use in Specific Populations (8.6)* and *Clinical Pharmacology (12.3)*].

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2.4 Dosage Adjustments

Adult patients with renal impairment

Assess renal function prior to initiation of treatment with dabigatran etexilate capsules. Periodically assess renal function as clinically indicated (i.e., more frequently in clinical situations that may be associated with a decline in renal function) and adjust therapy accordingly. Discontinue dabigatran etexilate capsules in patients who develop acute renal failure while on dabigatran etexilate and consider alternative anticoagulant therapy.

Generally, in adult patients, the extent of anticoagulation does not need to be assessed. When necessary, use aPTT or ECT, and not INR, to assess for anticoagulant activity in adult patients on dabigatran etexilate capsules [see *Warnings and Precautions (5.2)* and *Clinical Pharmacology (12.2)*].

Reduction of Risk of Stroke and Systemic Embolism in Non-valvular Atrial Fibrillation

In patients with moderate renal impairment (CrCl 30 to 50 mL/min), concomitant use of the P-gp inhibitor dronedarone or systemic ketoconazole can be expected to produce dabigatran exposure similar to that observed in severe renal impairment. Reduce the dosage of dabigatran etexilate capsules to 75 mg twice daily [see *Warnings and Precautions (5.5)*, *Drug Interactions (7.1)* and *Clinical Pharmacology (12.3)*].

Treatment and Reduction in the Risk of Recurrence of Deep Venous Thrombosis and Pulmonary Embolism

Dosing recommendations for patients with CrCl ≤30 mL/min cannot be provided. Avoid use of concomitant P-gp inhibitors in patients with CrCl <50 mL/min [see *Warnings and Precautions (5.5)*, *Drug Interactions (7.2)* and *Clinical Pharmacology (12.3)*].

Pediatric patients with renal impairment

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that information.

2.5 Administration

Dabigatran etexilate capsules should be swallowed whole. Dabigatran etexilate capsules should be taken with a full glass of water. Breaking, chewing, or emptying the contents of the capsule can result in increased exposure [see *Clinical Pharmacology (12.3)*].

If a dose of dabigatran etexilate capsules are not taken at the scheduled time, the dose should be taken as soon as possible on the same day; the missed dose should be skipped if it cannot be taken at least 6 hours before the next scheduled dose. The dose of dabigatran etexilate capsules should not be doubled to make up for a missed dose.

Consider administration with food if gastrointestinal distress occurs with dabigatran etexilate capsules.

2.6 Converting from or to Warfarin

When converting patients from warfarin therapy to dabigatran etexilate capsules, discontinue warfarin and start dabigatran etexilate capsules when the INR is below 2.

When converting from dabigatran etexilate capsules to warfarin, adjust the starting time of warfarin as follows:

Adults

- For CrCl \geq 50 mL/min, start warfarin 3 days before discontinuing dabigatran etexilate capsules.
- For CrCl 30 to 50 mL/min, start warfarin 2 days before discontinuing dabigatran etexilate capsules.
- For CrCl 15 to 30 mL/min, start warfarin 1 day before discontinuing dabigatran etexilate capsules.
- For CrCl <15 mL/min, no recommendations can be made.

Because dabigatran etexilate capsules can increase INR, the INR will better reflect warfarin's effect only after dabigatran etexilate capsules has been stopped for at least 2 days [see *Clinical Pharmacology (12.2)*].

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2.7 Converting from or to Parenteral Anticoagulants

For adult patients currently receiving a parenteral anticoagulant, start dabigatran etexilate capsules 0 to 2 hours before the time that the next dose of the parenteral drug was to have been administered or at the time of discontinuation of a continuously administered parenteral drug (e.g., intravenous unfractionated heparin).

For adult patients currently taking dabigatran etexilate capsules, wait 12 hours (CrCl \geq 30 mL/min) or 24 hours (CrCl <30 mL/min) after the last dose of dabigatran etexilate

capsules before initiating treatment with a parenteral anticoagulant [see *Clinical Pharmacology* (12.3)].

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2.8 Discontinuation for Surgery and Other Interventions

If possible, discontinue dabigatran etexilate capsules in adults 1 to 2 days (CrCl \geq 50 mL/min) or 3 to 5 days (CrCl <50 mL/min) before invasive or surgical procedures because of the increased risk of bleeding. Consider longer times for patients undergoing major surgery, spinal puncture, or placement of a spinal or epidural catheter or port, in whom complete hemostasis may be required [see *Use in Specific Populations* (8.6) and *Clinical Pharmacology* (12.3)].

If surgery cannot be delayed, there is an increased risk of bleeding [see *Warnings and Precautions* (5.2)]. This risk of bleeding should be weighed against the urgency of intervention [see *Warnings and Precautions* (5.1, 5.3)]. Use a specific reversal agent (idarucizumab) in case of emergency surgery or urgent procedures when reversal of the anticoagulant effect of dabigatran is needed in adults. Efficacy and safety of idarucizumab have not been established in pediatric patients [see *Warnings and Precautions* (5.2)]. Refer to the idarucizumab prescribing information for additional information. Restart dabigatran etexilate capsules as soon as medically appropriate.

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3 DOSAGE FORMS AND STRENGTHS

75 mg capsules: White opaque cap / white opaque body, size '2' HPMC capsules having imprinting "A" on cap with black ink and "329" on body with black ink filled with off white to yellowish pellets.

150 mg capsules: Light blue opaque cap/ white opaque body, size '0' HPMC capsules having imprinting "A" on cap with black ink and "316" on body with black ink filled with off white to yellowish pellets.

4 CONTRAINDICATIONS

Dabigatran etexilate capsules are contraindicated in patients with:

- Active pathological bleeding [see *Warnings and Precautions* (5.2) and *Adverse Reactions* (6.1)]
- History of a serious hypersensitivity reaction to dabigatran, dabigatran etexilate, or to one of the excipients of the product (e.g., anaphylactic reaction or anaphylactic shock) [see *Adverse Reactions* (6.1)]
- Mechanical prosthetic heart valve [see *Warnings and Precautions* (5.4)]

5 WARNINGS AND PRECAUTIONS

5.1 Increased Risk of Thrombotic Events after Premature Discontinuation

Premature discontinuation of any oral anticoagulant, including dabigatran etexilate, in the absence of adequate alternative anticoagulation increases the risk of thrombotic events. If dabigatran etexilate capsules are discontinued for a reason other than pathological bleeding or completion of a course of therapy, consider coverage with another anticoagulant and restart dabigatran etexilate capsules as soon as medically appropriate [see *Dosage and Administration* (2.6, 2.7, 2.8)].

5.2 Risk of Bleeding

Dabigatran etexilate increases the risk of bleeding and can cause significant and, sometimes, fatal bleeding. Promptly evaluate any signs or symptoms of blood loss (e.g., a drop in hemoglobin and/or hematocrit or hypotension). Discontinue dabigatran etexilate capsules in patients with active pathological bleeding [see *Dosage and Administration* (2.4)].

Risk factors for bleeding include the concomitant use of other drugs that increase the risk of bleeding (e.g., anti-platelet agents, heparin, fibrinolytic therapy, and chronic use of NSAIDs). Dabigatran etexilate's anticoagulant activity and half-life are increased in patients with renal impairment [see *Clinical Pharmacology* (12.2)].

Reversal of Anticoagulant Effect:

In adults, a specific reversal agent (idarucizumab) for dabigatran etexilate is available when reversal of the anticoagulant effect of dabigatran is needed:

- For emergency surgery/urgent procedures
- In life-threatening or uncontrolled bleeding

In pediatric patients, the efficacy and safety of idarucizumab have not been established.

Hemodialysis can remove dabigatran; however the clinical experience supporting the use of hemodialysis as a treatment for bleeding is limited [see *Overdosage* (10)].

Prothrombin complex concentrates, or recombinant Factor VIIa may be considered but their use has not been evaluated in clinical trials. Protamine sulfate and vitamin K are not expected to affect the anticoagulant activity of dabigatran. Consider administration of platelet concentrates in cases where thrombocytopenia is present or long-acting antiplatelet drugs have been used.

5.3 Spinal/Epidural Anesthesia or Puncture

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

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

Should the physician decide to administer anticoagulation in the context of epidural or spinal anesthesia/analgesia or lumbar puncture, monitor frequently to detect any signs or symptoms of neurological impairment, such as midline back pain, sensory and motor deficits (numbness, tingling, or weakness in lower limbs), bowel and/or bladder dysfunction. Instruct patients to immediately report if they experience any of the above signs or symptoms. If signs or symptoms of spinal hematoma are suspected, initiate

urgent diagnosis and treatment including consideration for spinal cord decompression even though such treatment may not prevent or reverse neurological sequelae.

5.4 Thromboembolic and Bleeding Events in Patients with Prosthetic Heart Valves

The safety and efficacy of dabigatran etexilate capsules in adult patients with bileaflet mechanical prosthetic heart valves was evaluated in the RE-ALIGN trial, in which patients with bileaflet mechanical prosthetic heart valves (recently implanted or implanted more than three months prior to enrollment) were randomized to dose adjusted warfarin or 150 mg, 220 mg, or 300 mg of dabigatran etexilate capsules twice a day. RE-ALIGN was terminated early due to the occurrence of significantly more thromboembolic events (valve thrombosis, stroke, transient ischemic attack, and myocardial infarction) and an excess of major bleeding (predominantly postoperative pericardial effusions requiring intervention for hemodynamic compromise) in the dabigatran etexilate capsules treatment arm as compared to the warfarin treatment arm. These bleeding and thromboembolic events were seen both in patients who were initiated on dabigatran etexilate capsules post-operatively within three days of mechanical bileaflet valve implantation, as well as in patients whose valves had been implanted more than three months prior to enrollment. Therefore, the use of dabigatran etexilate is contraindicated in all patients with mechanical prosthetic valves [see *Contraindications (4)*].

The use of dabigatran etexilate for the prophylaxis of thromboembolic events in patients with atrial fibrillation in the setting of other forms of valvular heart disease, including the presence of a bioprosthetic heart valve, has not been studied and is not recommended.

5.5 Effect of P-gp Inducers and Inhibitors on Dabigatran Exposure

The concomitant use of dabigatran etexilate with P-gp inducers (e.g., rifampin) reduces exposure to dabigatran and should generally be avoided [see *Clinical Pharmacology (12.3)*].

P-gp inhibition and impaired renal function are the major independent factors that result in increased exposure to dabigatran [see *Clinical Pharmacology (12.3)*]. Concomitant use of P-gp inhibitors in patients with renal impairment is expected to produce increased exposure of dabigatran compared to that seen with either factor alone.

Reduction of Risk of Stroke and Systemic Embolism in Non-valvular Atrial Fibrillation in Adult Patients

Reduce the dosage of dabigatran etexilate capsules to 75 mg twice daily when dronedarone or systemic ketoconazole is co-administered with dabigatran etexilate capsules in patients with moderate renal impairment (CrCl 30 to 50 mL/min). Avoid use of dabigatran etexilate capsules and P-gp inhibitors in patients with severe renal impairment (CrCl 15 to 30 mL/min) [see *Drug Interactions (7.1)* and *Use in Specific Populations (8.6)*].

Treatment and Reduction in the Risk of Recurrence of Deep Venous Thrombosis and Pulmonary Embolism in Adult Patients

Avoid use of dabigatran etexilate capsules and concomitant P-gp inhibitors in patients with CrCl <50 mL/min [see *Drug Interactions (7.2)* and *Use in Specific Populations (8.6)*].

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5.6 Increased Risk of Thrombosis in Patients with Triple-Positive Antiphospholipid Syndrome

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

6 ADVERSE REACTIONS

The following clinically significant adverse reactions are described elsewhere in the labeling:

- Increased Risk of Thrombotic Events after Premature Discontinuation [see *Warnings and Precautions (5.1)*]
- Risk of Bleeding [see *Warnings and Precautions (5.2)*]
- Spinal/Epidural Anesthesia or Puncture [see *Warnings and Precautions (5.3)*]
- Thromboembolic and Bleeding Events in Patients with Prosthetic Heart Valves [see *Warnings and Precautions (5.4)*]
- Increased Risk of Thrombosis in Patients with Triple-Positive Antiphospholipid Syndrome [see *Warnings and Precautions (5.6)*]

The most serious adverse reactions reported with dabigatran etexilate were related to bleeding [see *Warnings and Precautions (5.2)*].

6.1 Clinical Trials Experience

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

Adult Trials

Reduction of Risk of Stroke and Systemic Embolism in Non-valvular Atrial Fibrillation

The RE-LY (Randomized Evaluation of Long-term Anticoagulant Therapy) study provided safety information on the use of two doses of dabigatran etexilate capsules and warfarin [see *Clinical Studies (14.1)*]. The numbers of patients and their exposures are described in Table 2. Limited information is presented on the 110 mg dosing arm because this dose is not approved.

Table 2: Summary of Treatment Exposure in RE-LY

	Dabigatran Etexilate Capsules 110 mg twice daily	Dabigatran Etexilate Capsules 150 mg twice daily	Warfarin
Total number treated	5,983	6,059	5,998
Exposure			
> 12 months	4,936	4,939	5,193
> 24 months	2,387	2,405	2,470
Mean exposure (months)	20.5	20.3	21.3
Total patient-years	10,242	10,261	10,659

Drug Discontinuation in RE-LY

The rates of adverse reactions leading to treatment discontinuation were 21% for dabigatran etexilate capsules 150 mg and 16% for warfarin. The most frequent adverse reactions leading to discontinuation of dabigatran etexilate capsules were bleeding and gastrointestinal events (i.e., dyspepsia, nausea, upper abdominal pain, gastrointestinal hemorrhage, and diarrhea).

Bleeding [see Warnings and Precautions (5.2)]

Table 3 shows the number of adjudicated major bleeding events during the treatment period in the RE-LY study, with the bleeding rate per 100 subject-years (%). Major bleeding is defined as bleeding accompanied by one or more of the following: a decrease in hemoglobin of ≥ 2 g/dL, a transfusion of ≥ 2 units of packed red blood cells, bleeding at a critical site or with a fatal outcome. Intracranial hemorrhage included intracerebral (hemorrhagic stroke), subarachnoid, and subdural bleeds.

Table 3: Adjudicated Major Bleeding Events in Treated Patients^a

Event	Dabigatran Etexilate Capsules 150 mg N = 6,059 n (%/year^b)	Warfarin N = 5,998 n (%/year^b)	Dabigatran Etexilate Capsules 150 mg vs. Warfarin HR (95% CI)
Major Bleeding ^c	350 (3.47)	374 (3.58)	0.97 (0.84, 1.12)
Intracranial Hemorrhage (ICH) ^d	23 (0.22)	82 (0.77)	0.29 (0.18, 0.46)
Hemorrhagic Stroke ^e	6 (0.06)	40 (0.37)	0.16 (0.07, 0.37)
Other ICH			

	17 (0.17)	46 (0.43)	0.38 (0.22, 0.67)
Gastrointestinal	162 (1.59)	111 (1.05)	1.51 (1.19, 1.92)
Fatal Bleeding ^f	7 (0.07)	16 (0.15)	0.45 (0.19, 1.1)
ICH	3 (0.03)	9 (0.08)	0.35 (0.09, 1.28)
Non-intracranial ^g	4 (0.04)	7 (0.07)	0.59 (0.17, 2.02)

^aPatients during treatment or within 2 days of stopping study treatment. Major bleeding events within each subcategory were counted once per patient, but patients may have contributed events to multiple subcategories.

^bAnnual event rate per 100 pt-years = 100 * number of subjects with event/subject-years. Subject-years is defined as cumulative number of days from first drug intake to event date, date of last drug intake + 2, death date (whatever occurred first) across all treated subjects divided by 365.25. In case of recurrent events of the same category, the first event was considered.

^cDefined as bleeding accompanied by one or more of the following: a decrease in hemoglobin of ≥ 2 g/dL, a transfusion of 2 or more units of packed red blood cells, bleeding at a critical site or with fatal outcome.

^dIntracranial bleed included intracerebral (hemorrhagic stroke), subarachnoid, and subdural bleeds.

^eOn-treatment analysis based on the safety population, compared to ITT analysis presented in Section 14 Clinical Studies.

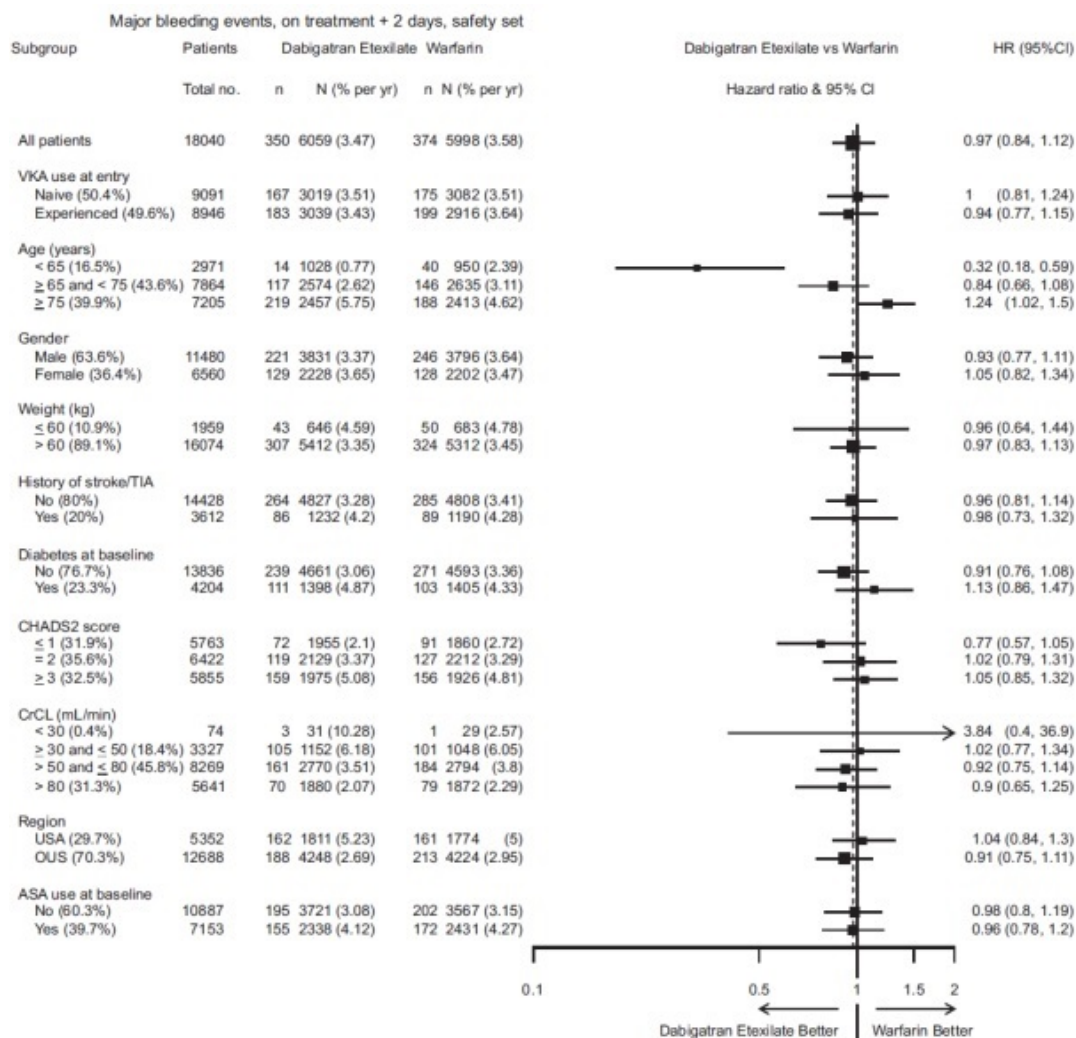
^fFatal bleed: Adjudicated major bleed as defined above with investigator reported fatal outcome and adjudicated death with primary cause from bleeding.

^gNon-intracranial fatal bleed: Adjudicated major bleed as defined above and adjudicated death with primary cause from bleeding but without symptomatic intracranial bleed based on investigator's clinical assessment.

There was a higher rate of any gastrointestinal bleeds in patients receiving dabigatran etexilate capsules 150 mg than in patients receiving warfarin (6.6% vs 4.2%, respectively).

The risk of major bleeds was similar with dabigatran etexilate capsules 150 mg and warfarin across major subgroups defined by baseline characteristics (see Figure 1), with the exception of age, where there was a trend toward a higher incidence of major bleeding on dabigatran etexilate capsules (hazard ratio 1.2, 95% CI: 1 to 1.5) for patients ≥ 75 years of age.

Figure 1: Adjudicated Major Bleeding by Baseline Characteristics Including Hemorrhagic Stroke Treated Patients



Note: The figure above presents effects in various subgroups all of which are baseline characteristics and all of which were pre-specified. The 95% confidence limits that are shown do not take into account how many comparisons were made, nor do they reflect the effect of a particular factor after adjustment for all other factors. Apparent homogeneity or heterogeneity among groups should not be over-interpreted.

Gastrointestinal Adverse Reactions

Patients on dabigatran etexilate capsules 150 mg had an increased incidence of gastrointestinal adverse reactions (35% vs. 24% on warfarin). These were commonly dyspepsia (including abdominal pain upper, abdominal pain, abdominal discomfort, and epigastric discomfort) and gastritis-like symptoms (including GERD, esophagitis, erosive gastritis, gastric hemorrhage, hemorrhagic gastritis, hemorrhagic erosive gastritis, and gastrointestinal ulcer).

Hypersensitivity Reactions

In the RE-LY study, drug hypersensitivity (including urticaria, rash, and pruritus), allergic edema, anaphylactic reaction, and anaphylactic shock were reported in <0.1% of patients receiving dabigatran etexilate capsules.

Treatment and Reduction in the Risk of Recurrence of Deep Venous Thrombosis and Pulmonary Embolism

Dabigatran etexilate capsules were studied in 4,387 patients in 4 pivotal, parallel, randomized, double-blind trials. Three of these trials were active-controlled (warfarin)

(RE-COVER, RE-COVER II, and RE-MEDY), and one study (RE-SONATE) was placebo-controlled. The demographic characteristics were similar among the 4 pivotal studies and between the treatment groups within these studies. Approximately 60% of the treated patients were male, with a mean age of 55.1 years. The majority of the patients were white (87.7%), 10.3% were Asian, and 1.9% were black with a mean CrCl of 105.6 mL/min.

Bleeding events for the 4 pivotal studies were classified as major bleeding events if at least one of the following criteria applied: fatal bleeding, symptomatic bleeding in a critical area or organ (intraocular, intracranial, intraspinal or intramuscular with compartment syndrome, retroperitoneal bleeding, intra-articular bleeding, or pericardial bleeding), bleeding causing a fall in hemoglobin level of 2 g/dL (1.24 mmol/L or more, or leading to transfusion of 2 or more units of whole blood or red cells).

RE-COVER and RE-COVER II studies compared dabigatran etexilate capsules 150 mg twice daily and warfarin for the treatment of deep vein thrombosis and pulmonary embolism. Patients received 5 to 10 days of an approved parenteral anticoagulant therapy followed by 6 months, with mean exposure of 164 days, of oral only treatment; warfarin was overlapped with parenteral therapy. Table 4 shows the number of patients experiencing bleeding events in the pooled analysis of RE-COVER and RE-COVER II studies during the full treatment including parenteral and oral only treatment periods after randomization.

Table 4: Bleeding Events in RE-COVER and RE-COVER II Treated Patients

	Bleeding Events-Full Treatment Period Including Parenteral Treatment		
	Dabigatran Etexilate Capsules 150 mg twice daily N (%)	Warfarin N (%)	Hazard Ratio (95% CI)^c
Patients	N=2,553	N=2,554	
Major bleeding event ^a	37 (1.4)	51 (2)	0.73 (0.48, 1.11)
Fatal bleeding	1 (0.04)	2 (0.1)	
Bleeding in a critical area or organ	7 (0.3)	15 (0.6)	
Fall in hemoglobin \geq 2 g/dL or transfusion \geq 2 units of whole blood or packed red blood cells	32 (1.3)	38 (1.5)	
Bleeding sites for MBE ^b			
Intracranial	2 (0.1)	5 (0.2)	
Retroperitoneal	2 (0.1)	1 (0.04)	
Intraarticular	2 (0.1)	4 (0.2)	
Intramuscular	2 (0.1)	6 (0.2)	
Gastrointestinal	15 (0.6)	14 (0.5)	
Urogenital	7 (0.3)	14 (0.5)	
Other	8 (0.3)	8 (0.3)	
Clinically relevant non-major bleeding	101 (4)	170 (6.7)	0.58 (0.46, 0.75)
Any bleeding	411 (16.1)	567 (22.7)	0.7 (0.61, 0.79)

Note: MBE can belong to more than one criterion.

^aPatients with at least one MBE.

^bBleeding site based on investigator assessment. Patients can have more than one site of bleeding.

^cConfidence interval

The rate of any gastrointestinal bleeds in patients receiving dabigatran etexilate capsules 150 mg in the full treatment period was 3.1% (2.4% on warfarin).

The RE-MEDY and RE-SONATE studies provided safety information on the use of dabigatran etexilate capsules for the reduction in the risk of recurrence of deep vein thrombosis and pulmonary embolism.

RE-MEDY was an active-controlled study (warfarin) in which 1,430 patients received dabigatran etexilate capsules 150 mg twice daily following 3 to 12 months of oral anticoagulant regimen. Patients in the treatment studies who rolled over into the RE-MEDY study had a combined treatment duration of up to more than 3 years, with mean exposure of 473 days. Table 5 shows the number of patients experiencing bleeding events in the study.

Table 5: Bleeding Events in RE-MEDY Treated Patients

	Dabigatran Etexilate Capsules 150 mg twice daily N (%)	Warfarin N (%)	Hazard Ratio (95% CI)^c
Patients	N=1,430	N=1,426	
Major bleeding event ^a	13 (0.9)	25 (1.8)	0.54 (0.25, 1.16)
Fatal bleeding	0	1 (0.1)	
Bleeding in a critical area or organ	7 (0.5)	11 (0.8)	
Fall in hemoglobin \geq 2 g/dL or transfusion \geq 2 units of whole blood or packed red blood cells	7 (0.5)	16 (1.1)	
Bleeding sites for MBE ^b			
Intracranial	2 (0.1)	4 (0.3)	
Intraocular	4 (0.3)	2 (0.1)	
Retroperitoneal	0	1 (0.1)	
Intraarticular	0	2 (0.1)	
Intramuscular	0	4 (0.3)	
Gastrointestinal	4 (0.3)	8 (0.6)	
Urogenital	1 (0.1)	1 (0.1)	
Other	2 (0.1)	4 (0.3)	
Clinically relevant non-major bleeding	71 (5)	125 (8.8)	0.56 (0.42, 0.75)
Any bleeding	278 (19.4)	373 (26.2)	0.71 (0.61, 0.83)

Note: MBE can belong to more than one criterion.

^aPatients with at least one MBE.

^bBleeding site based on investigator assessment. Patients can have more than one site of bleeding.

^cConfidence interval

In the RE-MEDY study, the rate of any gastrointestinal bleeds in patients receiving

dabigatran etexilate capsules 150 mg was 3.1% (2.2% on warfarin).

RE-SONATE was a placebo-controlled study in which 684 patients received dabigatran etexilate capsules 150 mg twice daily following 6 to 18 months of oral anticoagulant regimen. Patients in the treatment studies who rolled over into the RE-SONATE study had combined treatment duration up to 9 months, with mean exposure of 165 days. Table 6 shows the number of patients experiencing bleeding events in the study.

Table 6: Bleeding Events in RE-SONATE Treated Patients

	Dabigatran Etexilate Capsules 150 mg twice daily N (%)	Placebo N (%)	Hazard Ratio (95% CI)^c
Patients	N=684	N=659	
Major bleeding event ^a	2 (0.3)	0	
Bleeding in a critical area or organ	0	0	
Gastrointestinal ^b	2 (0.3)	0	
Clinically relevant non-major bleeding	34 (5)	13 (2)	2.54 (1.34, 4.82)
Any bleeding	72 (10.5)	40 (6.1)	1.77 (1.2, 2.61)

Note: MBE can belong to more than one criterion.

^aPatients with at least one MBE.

^bBleeding site based on investigator assessment. Patients can have more than one site of bleeding.

^cConfidence interval

In the RE-SONATE study, the rate of any gastrointestinal bleeds in patients receiving dabigatran etexilate capsules 150 mg was 0.7% (0.3% on placebo).

Clinical Myocardial Infarction Events

In the active-controlled VTE studies, a higher rate of clinical myocardial infarction was reported in patients who received dabigatran etexilate capsules [20 (0.66 per 100 patient-years)] than in those who received warfarin [5 (0.17 per 100 patient-years)]. In the placebo-controlled study, a similar rate of nonfatal and fatal clinical myocardial infarction was reported in patients who received dabigatran etexilate capsules [1 (0.32 per 100 patient-years)] and in those who received placebo [1 (0.34 per 100 patient-years)].

Gastrointestinal Adverse Reactions

In the four pivotal studies, patients on dabigatran etexilate capsules 150 mg had a similar incidence of gastrointestinal adverse reactions (24.7% vs 22.7% on warfarin). Dyspepsia (including abdominal pain upper, abdominal pain, abdominal discomfort, and epigastric discomfort) occurred in patients on dabigatran etexilate capsules in 7.5% vs 5.5% on warfarin, and gastritis-like symptoms (including gastritis, GERD, esophagitis, erosive gastritis and gastric hemorrhage) occurred at 3% vs 1.7%, respectively.

Hypersensitivity Reactions

In the 4 pivotal studies, drug hypersensitivity (including urticaria, rash, and pruritus), allergic edema, anaphylactic reaction, and anaphylactic shock were reported in 0.1% of patients receiving dabigatran etexilate capsules.

Pediatric use information is approved for Boehringer Ingelheim Pharmaceuticals, Inc.'s Pradaxa (dabigatran etexilate) capsules. However, due to Boehringer Ingelheim Pharmaceuticals, Inc.'s marketing exclusivity rights, this drug product is not labeled with that information.

6.2 Postmarketing Experience

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

Blood and Lymphatic System Disorders: Agranulocytosis, neutropenia, thrombocytopenia

Gastrointestinal Disorders: Esophageal ulcer

Immune System Disorders: Angioedema

Renal and Urinary Disorders: Anticoagulant-related nephropathy

Skin and Subcutaneous Tissue Disorders: Alopecia

7 DRUG INTERACTIONS

7.1 Reduction of Risk of Stroke and Systemic Embolism in Non-valvular Atrial Fibrillation in Adult Patients

The concomitant use of dabigatran etexilate with P-gp inducers (e.g., rifampin) reduces exposure to dabigatran and should generally be avoided [see *Clinical Pharmacology (12.3)*].

P-gp inhibition and impaired renal function are the major independent factors that result in increased exposure to dabigatran [see *Clinical Pharmacology (12.3)*]. Concomitant use of P-gp inhibitors in patients with renal impairment is expected to produce increased exposure of dabigatran compared to that seen with either factor alone.

In patients with moderate renal impairment (CrCl 30 to 50 mL/min), reduce the dosage of dabigatran etexilate to 75 mg twice daily when administered concomitantly with the P-gp inhibitors dronedarone or systemic ketoconazole. The use of the P-gp inhibitors verapamil, amiodarone, quinidine, clarithromycin, and ticagrelor does not require a dosage adjustment of dabigatran etexilate. These results should not be extrapolated to other P-gp inhibitors [see *Warnings and Precautions (5.5)*, *Use in Specific Populations (8.6)*, and *Clinical Pharmacology (12.3)*].

The concomitant use of dabigatran etexilate and P-gp inhibitors in patients with severe renal impairment (CrCl 15 to 30 mL/min) should be avoided [see *Warnings and Precautions (5.5)*, *Use in Specific Populations (8.6)*, and *Clinical Pharmacology (12.3)*].

7.2 Treatment and Reduction in the Risk of Recurrence of Deep Venous Thrombosis and Pulmonary Embolism In Adult Patients

Avoid use of dabigatran etexilate and P-gp inhibitors in patients with CrCl <50 mL/min [see *Warnings and Precautions (5.5)*, *Use in Specific Populations (8.6)*, and *Clinical Pharmacology (12.3)*].

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8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

The limited available data on dabigatran etexilate use in pregnant women are insufficient to determine drug-associated risks for adverse developmental outcomes. There are risks to the mother associated with untreated venous thromboembolism in pregnancy and a risk of hemorrhage in the mother and fetus associated with the use of anticoagulants (*see Clinical Considerations*). In pregnant rats treated from implantation until weaning, dabigatran increased the number of dead offspring and caused excess vaginal/uterine bleeding close to parturition at an exposure 2.6 times the human exposure. At a similar exposure, dabigatran decreased the number of implantations when rats were treated prior to mating and up to implantation (gestation Day 6). Dabigatran administered to pregnant rats and rabbits during organogenesis up to exposures 8 and 13 times the human exposure, respectively, did not induce major malformations. However, the incidence of delayed or irregular ossification of fetal skull bones and vertebrae was increased in the rat (*see Data*).

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Clinical Considerations

Disease-associated maternal and/or embryo/fetal risk

Pregnancy confers an increased risk for thromboembolism that is higher for women with underlying thromboembolic disease and certain high-risk pregnancy conditions. Published data describe that women with a previous history of venous thrombosis are at high risk for recurrence during pregnancy.

Fetal/Neonatal adverse reaction

Use of anticoagulants, including dabigatran etexilate, may increase the risk of bleeding in the fetus and neonate. Monitor neonates for bleeding [*see Warnings and Precautions (5.2)*].

Labor or delivery

All patients receiving anticoagulants, including pregnant women, are at risk for bleeding. Dabigatran etexilate use during labor or delivery in women who are receiving neuraxial anesthesia may result in epidural or spinal hematomas. Consider discontinuation or use of shorter acting anticoagulant as delivery approaches [*see Warnings and Precautions (5.2, 5.3)*].

Data

Animal Data

Dabigatran has been shown to decrease the number of implantations when male and female rats were treated at a dosage of 70 mg/kg (about 2.6 to 3 times the human exposure at MRHD of 300 mg/day based on area under the curve [AUC] comparisons) prior to mating and up to implantation (gestation Day 6). Treatment of pregnant rats after implantation with dabigatran at the same dose increased the number of dead offspring and caused excess vaginal/uterine bleeding close to parturition. Dabigatran administered to pregnant rats and rabbits during organogenesis up to maternally toxic doses of 200 mg/kg (8 and 13 times the human exposure, respectively, at a MRHD of 300 mg/day based on AUC comparisons) did not induce major malformations, but increased the incidence of delayed or irregular ossification of fetal skull bones and vertebrae in the rat.

Death of offspring and mother rats during labor in association with uterine bleeding occurred during treatment of pregnant rats from implantation (gestation Day 7) to weaning (lactation Day 21) with dabigatran at a dose of 70 mg/kg (about 2.6 times the human exposure at MRHD of 300 mg/day based on AUC comparisons).

8.2 Lactation

Risk Summary

There are no data on the presence of dabigatran in human milk, the effects on the breastfed child, or on milk production. Dabigatran and/or its metabolites were present in rat milk. Breastfeeding is not recommended during treatment with dabigatran etexilate.

8.3 Females and Males of Reproductive Potential

Females of reproductive potential requiring anticoagulation should discuss pregnancy planning with their physician.

The risk of clinically significant uterine bleeding, potentially requiring gynecological surgical interventions, identified with oral anticoagulants including dabigatran etexilate should be assessed in females of reproductive potential and those with abnormal uterine bleeding.

8.4 Pediatric Use

Safety and effectiveness of dabigatran etexilate capsules have not been established in pediatric patients with non-valvular atrial fibrillation or those who have undergone hip replacement surgery.

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8.5 Geriatric Use

Of the total number of patients in the RE-LY study, 82% were 65 and over, while 40% were 75 and over. The risk of stroke and bleeding increases with age, but the risk-benefit profile is favorable in all age groups [see *Warnings and Precautions (5)*, *Adverse Reactions (6.1)*, and *Clinical Studies (14.1)*].

8.6 Renal Impairment

Reduction of Risk of Stroke and Systemic Embolism in Non-valvular Atrial Fibrillation in Adult Patients

No dose adjustment of dabigatran etexilate is recommended in patients with mild or moderate renal impairment [see *Clinical Pharmacology (12.3)*]. Reduce the dose of dabigatran etexilate in patients with severe renal impairment (CrCl 15 to 30 mL/min) [see

Dosage and Administration (2.2, 2.4) and Clinical Pharmacology (12.3)]. Dosing recommendations for patients with CrCl <15 mL/min or on dialysis cannot be provided.

Adjust dose appropriately in patients with renal impairment receiving concomitant P-gp inhibitors [see Warnings and Precautions (5.5), Drug Interactions (7.1), and Clinical Pharmacology (12.3)].

Treatment and Reduction in the Risk of Recurrence of Deep Venous Thrombosis and Pulmonary Embolism in Adult Patients

Patients with severe renal impairment (CrCl \leq 30 mL/min) were excluded from RECOVER.

Dosing recommendations for patients with CrCl \leq 30 mL/min or on dialysis cannot be provided. Avoid use of dabigatran etexilate with concomitant P-gp inhibitors in patients with CrCl <50 mL/min [see Warnings and Precautions (5.5), Drug Interactions (7.2), and Clinical Pharmacology (12.3)].

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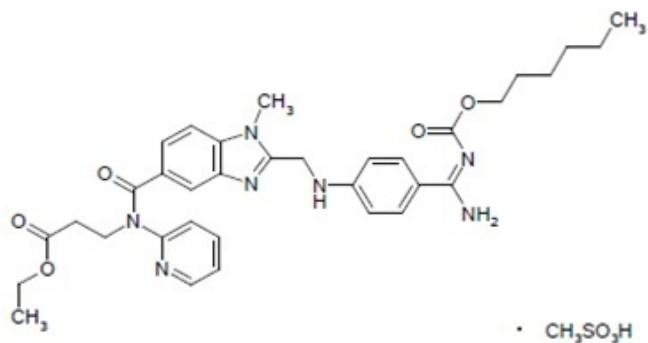
10 OVERDOSAGE

Accidental overdose may lead to hemorrhagic complications. In the event of hemorrhagic complications, initiate appropriate clinical support, discontinue treatment with dabigatran etexilate, and investigate the source of bleeding. A specific reversal agent (idarucizumab) is available for adult patients.

Dabigatran is primarily eliminated by the kidneys with a low plasma protein binding of approximately 35%. Hemodialysis can remove dabigatran; however, data supporting this approach are limited. Using a high-flux dialyzer, blood flow rate of 200 mL/min, and dialysate flow rate of 700 mL/min, approximately 49% of total dabigatran can be cleared from plasma over 4 hours. At the same dialysate flow rate, approximately 57% can be cleared using a dialyzer blood flow rate of 300 mL/min, with no appreciable increase in clearance observed at higher blood flow rates. Upon cessation of hemodialysis, a redistribution effect of approximately 7% to 15% is seen. The effect of dialysis on dabigatran's plasma concentration would be expected to vary based on patient specific characteristics. Measurement of aPTT or ECT may help guide therapy [see Warnings and Precautions (5.2) and Clinical Pharmacology (12.2)].

11 DESCRIPTION

The chemical name for dabigatran etexilate mesylate, a direct thrombin inhibitor, is β -Alanine, N-[[2-[[[4-[[[(hexyloxy)carbonyl]amino]iminomethyl]phenyl]amino]methyl]-1-methyl-1H-benzimidazol-5-yl]carbonyl]-N-2-pyridinyl-,ethyl ester, methanesulfonate. The empirical formula is C₃₄H₄₁N₇O₅·CH₄O₃S and the molecular weight is 723.86 (mesylate salt), 627.75 (free base). The structural formula is:



Dabigatran etexilate mesylate is off-white to yellowish powder. It is freely soluble in methanol and ethanol; practically insoluble in acetone, ethyl acetate, water.

Dabigatran etexilate capsules are supplied in 75 mg and 150 mg strengths for oral administration. Each capsule contains dabigatran etexilate mesylate as the active ingredient:

75 mg dabigatran etexilate (equivalent to 86.48 mg dabigatran etexilate mesylate) or 150 mg dabigatran etexilate (equivalent to 172.95 mg dabigatran etexilate mesylate) along with the following inactive ingredients: pelletized tartaric acid, hypromellose phthalate, talc, hydroxypropyl cellulose. The capsule shell is composed of titanium dioxide, carrageenan, potassium chloride, hypromellose. Additionally, 150 mg capsule shell also contains FD&C Blue No. 2.

The empty hard hypromellose capsule shells are printed with edible black ink containing shellac, iron oxide black and potassium hydroxide.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Dabigatran and its acyl glucuronides are competitive, direct thrombin inhibitors. Because thrombin (serine protease) enables the conversion of fibrinogen into fibrin during the coagulation cascade, its inhibition prevents the development of a thrombus. Both free and clot-bound thrombin, and thrombin-induced platelet aggregation are inhibited by the active moieties.

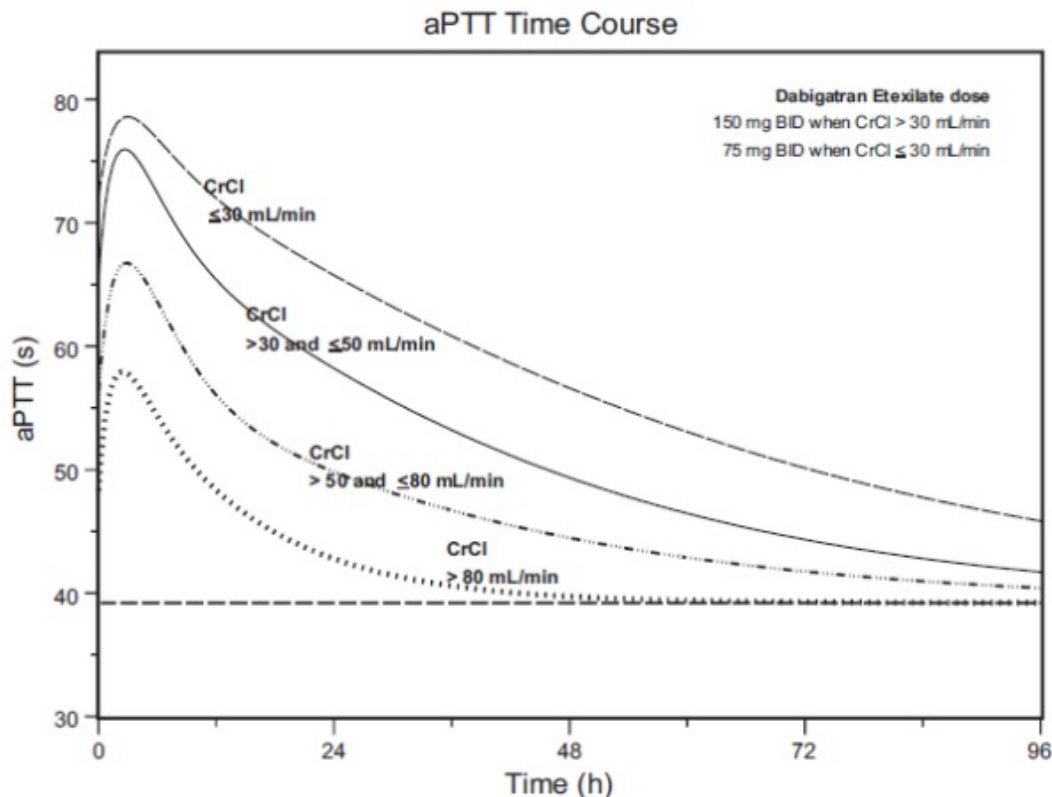
12.2 Pharmacodynamics

At recommended therapeutic doses, dabigatran etexilate prolongs the coagulation markers such as aPTT, ECT, TT, and dTT. INR is relatively insensitive to the exposure to dabigatran and cannot be interpreted the same way as used for warfarin monitoring.

Adults

The aPTT test provides an approximation of dabigatran etexilate's anticoagulant effect. The average time course for effects on aPTT, following approved dosing regimens in patients with various degrees of renal impairment is shown in Figure 2. The curves represent mean levels without confidence intervals; variations should be expected when measuring aPTT. While advice cannot be provided on the level of recovery of aPTT needed in any particular clinical setting, the curves can be used to estimate the time to get to a particular level of recovery, even when the time since the last dose of dabigatran etexilate is not precisely known. In the RE-LY trial, the median (10th to 90th percentile) trough aPTT in patients receiving the 150 mg dose was 52 (40 to 76) seconds.

Figure 2: Average Time Course for Effects of Dabigatran on aPTT, Following Approved DABIGATRAN Dosing Regimens in Adult Patients with Various Degrees of Renal Impairment*



*Simulations based on PK data from a study in subjects with renal impairment and PK/aPTT relationships derived from the RE-LY study; aPTT prolongation in RE-LY was measured centrally in citrate plasma using PTT Reagent Roche Diagnostics GmbH, Mannheim, Germany. There may be quantitative differences between various established methods for aPTT assessment.

The degree of anticoagulant activity can also be assessed by the ecarin clotting time (ECT). This test is a more specific measure of the effect of dabigatran than activated partial thromboplastin time (aPTT). In the RE-LY trial, the median (10th to 90th percentile) trough ECT in patients receiving the 150 mg dose was 63 (44 to 103) seconds.

Cardiac Electrophysiology

No prolongation of the QTc interval was observed with dabigatran etexilate at doses up to 600 mg.

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12.3 Pharmacokinetics

Dabigatran etexilate mesylate is absorbed as the dabigatran etexilate ester. The ester is then hydrolyzed, forming dabigatran, the active moiety. Dabigatran is metabolized to four different acyl glucuronides and both the glucuronides and dabigatran have similar pharmacological activity. Pharmacokinetics described here refer to the sum of dabigatran and its glucuronides. Dabigatran displays dose-proportional pharmacokinetics in healthy adult subjects and adult patients in the range of doses from 10 to 400 mg. Given twice daily, dabigatran's accumulation factor in adults is approximately two.

Absorption

The absolute bioavailability of dabigatran following oral administration of dabigatran etexilate is approximately 3% to 7%. Dabigatran etexilate is a substrate of the efflux transporter P-gp. After oral administration of dabigatran etexilate in healthy volunteers, C_{max} occurs at 1-hour post-administration in the fasted state. Coadministration of dabigatran etexilate with a high-fat meal delays the time to C_{max} by approximately 2 hours but has no effect on the bioavailability of dabigatran; dabigatran etexilate may be administered with or without food.

The oral bioavailability of dabigatran etexilate increases by 75% when the pellets are taken without the capsule shell compared to the intact capsule formulation based on a single-dose relative bioavailability study. Dabigatran etexilate capsules should therefore not be broken, chewed, or opened before administration.

Distribution

Dabigatran is approximately 35% bound to human plasma proteins. The red blood cell to plasma partitioning of dabigatran measured as total radioactivity is less than 0.3. The volume of distribution of dabigatran is 50 to 70 L.

Elimination

Dabigatran is eliminated primarily in the urine. Renal clearance of dabigatran is 80% of total clearance after intravenous administration. After oral administration of radiolabeled dabigatran, 7% of radioactivity is recovered in urine and 86% in feces. The half-life of dabigatran in healthy adult subjects is 12 to 17 hours.

Metabolism

After oral administration, dabigatran etexilate is converted to dabigatran. The cleavage of the dabigatran etexilate by esterase-catalyzed hydrolysis to the active principal dabigatran is the predominant metabolic reaction. Dabigatran is not a substrate, inhibitor, or inducer of CYP450 enzymes. Dabigatran is subject to conjugation, forming pharmacologically active acyl glucuronides. Four positional isomers, 1-O, 2-O, 3-O, and 4-O-acylglucuronide exist, and each accounts for less than 10% of total dabigatran in plasma.

Specific Populations

Renal Impairment

An open, parallel-group, single-center study compared dabigatran pharmacokinetics in healthy adult subjects and adult patients with mild to moderate renal impairment receiving a single dose of dabigatran etexilate 150 mg. Exposure to dabigatran increases with severity of renal function impairment (Table 10). Similar findings were observed in the RE-LY, RE-COVER and RE-NOVATE II trials.

Table 10: Impact of Renal Impairment on Dabigatran Pharmacokinetics

Renal Function	CrCl (mL/min)	Increase in AUC	Increase in C_{max}	$t_{1/2}$ (h)
Normal	≥ 80	1x	1x	13
Mild	50 to 80	1.5x	1.1x	15
Moderate	30 to 50	3.2x	1.7x	18
Severe⁺	15 to 30	6.3x	2.1x	27

+Patients with severe renal impairment were not studied in RE-LY, RE-COVER and RE-NOVATE II. Dosing recommendations in subjects with severe renal impairment are based on pharmacokinetic modeling [see Dosage and Administration (2.2, 2.4) and Use in Specific Populations (8.6)].

Hepatic Impairment

Administration of dabigatran etexilate capsules in adult patients with moderate hepatic impairment (Child-Pugh B) showed a large inter-subject variability, but no evidence of a consistent change in exposure or pharmacodynamics.

Drug Interactions

A summary of the effect of coadministered drugs on dabigatran exposure in healthy adult subjects is shown in Figures 3.1 and 3.2.

Figure 3.1: Effect of P-gp Inhibitor or Inducer (rifampicin) Drugs on Peak and Total Exposure to Dabigatran (C_{max} and AUC). Shown are the Geometric Mean Ratios (Ratio) and 90% Confidence Interval (90% CI). The Perpetrator and Dabigatran Etexilate Dosage and Dosage Frequency are given as well as the Time of Perpetrator Dosage in Relation to Dabigatran Etexilate Dosage (Time Difference)

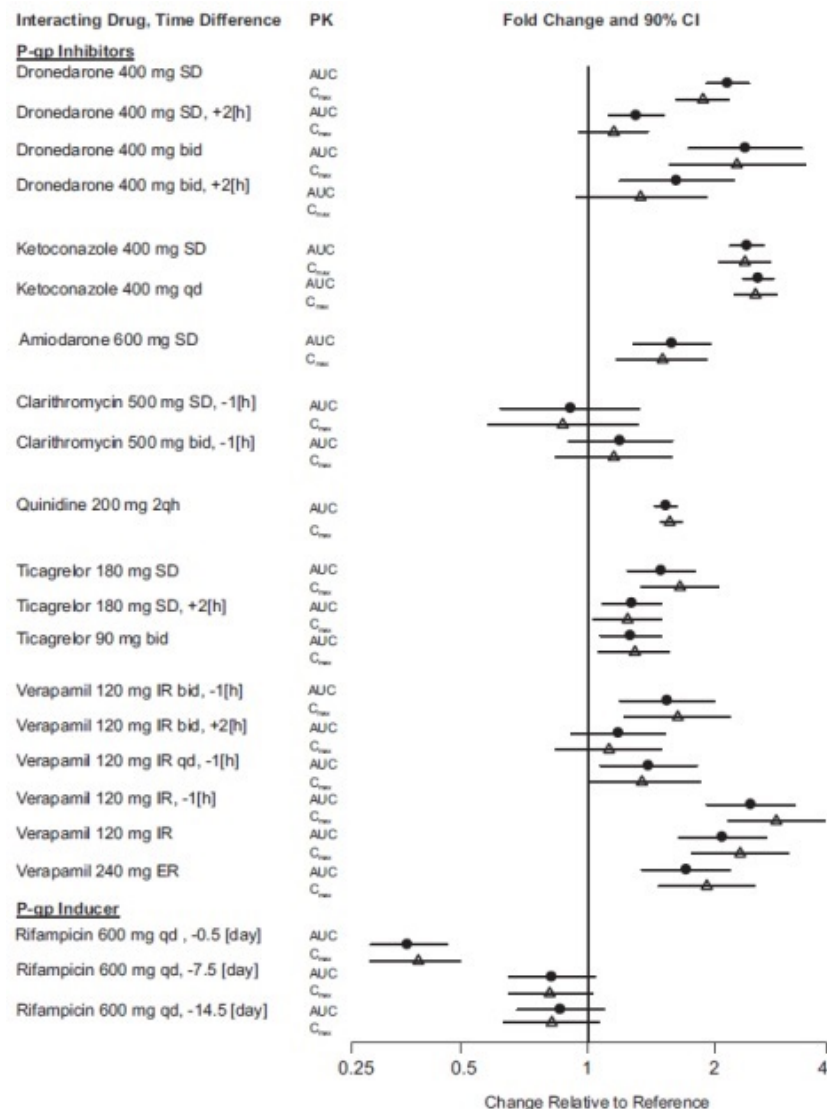
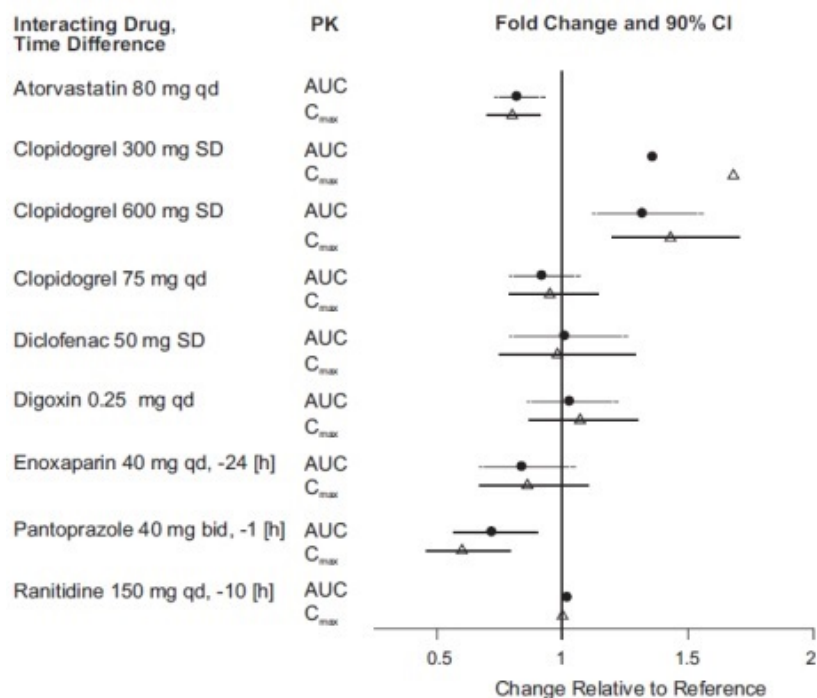


Figure 3.2: Effect of Non-P-gp Inhibitor or Inducer, Other Drugs, on Peak and Total Exposure to Dabigatran (C_{max} and AUC). Shown are the Geometric Mean Ratios (Ratio) and 90% Confidence Interval (90% CI). The Perpetrator and Dabigatran Etexilate Dosage and Dosage Frequency are given as well as the Time of Perpetrator Dosage in Relation to Dabigatran Etexilate Dosage (Time Difference)



In RE-LY, dabigatran plasma samples were also collected. The concomitant use of proton pump inhibitors, H2 antagonists, and digoxin did not appreciably change the trough concentration of dabigatran.

Impact of Dabigatran on Other Drugs

In clinical studies exploring CYP3A4, CYP2C9, P-gp and other pathways, dabigatran did not meaningfully alter the pharmacokinetics of amiodarone, atorvastatin, clarithromycin, diclofenac, clopidogrel, digoxin, pantoprazole, or ranitidine.

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13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Dabigatran was not carcinogenic when administered by oral gavage to mice and rats for up to 2 years. The highest doses tested (200 mg/kg/day) in mice and rats were approximately 3.6 and 6 times, respectively, the human exposure at MRHD of 300 mg/day based on AUC comparisons.

Dabigatran was not mutagenic in *in vitro* tests, including bacterial reversion tests, mouse lymphoma assay and chromosomal aberration assay in human lymphocytes, and the *in vivo* micronucleus assay in rats.

In the rat fertility study with oral gavage doses of 15, 70, and 200 mg/kg, males were treated for 29 days prior to mating, during mating up to scheduled termination, and

females were treated 15 days prior to mating through gestation Day 6. No adverse effects on male or female fertility were observed at 200 mg/kg or 9 to 12 times the human exposure at MRHD of 300 mg/day based on AUC comparisons. However, the number of implantations decreased in females receiving 70 mg/kg, or 3 times the human exposure at MRHD based on AUC comparisons.

14 CLINICAL STUDIES

14.1 Reduction of Risk of Stroke and Systemic Embolism in Non-valvular Atrial Fibrillation in Adult Patients

The clinical evidence for the efficacy of dabigatran etexilate capsules was derived from RE-LY (Randomized Evaluation of Long-term Anticoagulant Therapy), a multi-center, multi-national, randomized, parallel group trial comparing two blinded dosages of dabigatran etexilate capsules (110 mg twice daily and 150 mg twice daily) with open-label warfarin (dosed to target INR of 2 to 3) in patients with non-valvular, persistent, paroxysmal, or permanent atrial fibrillation and one or more of the following additional risk factors:

- Previous stroke, transient ischemic attack (TIA), or systemic embolism
- Left ventricular ejection fraction <40%
- Symptomatic heart failure, \geq New York Heart Association Class 2
- Age \geq 75 years
- Age \geq 65 years and one of the following: diabetes mellitus, coronary artery disease (CAD), or hypertension

The primary objective of this study was to determine if dabigatran etexilate capsules was non-inferior to warfarin in reducing the occurrence of the composite endpoint, stroke (ischemic and hemorrhagic) and systemic embolism. The study was designed to ensure that dabigatran etexilate capsules preserved more than 50% of warfarin's effect as established by previous randomized, placebo-controlled trials of warfarin in atrial fibrillation. Statistical superiority was also analyzed.

A total of 18,113 patients were randomized and followed for a median of 2 years. The patients' mean age was 71.5 years and the mean CHADS2 score was 2.1. The patient population was 64% male, 70% Caucasian, 16% Asian, and 1% black. Twenty percent of patients had a history of a stroke or TIA and 50% were vitamin K antagonist (VKA) naïve, defined as less than 2 months total lifetime exposure to a VKA. Thirty-two percent of the population had never been exposed to a VKA. Concomitant diseases of patients in this trial included hypertension 79%, diabetes 23%, and CAD 28%. At baseline, 40% of patients were on aspirin and 6% were on clopidogrel. For patients randomized to warfarin, the mean percentage of time in therapeutic range (INR 2 to 3) was 64%.

Relative to warfarin and to dabigatran etexilate capsules 110 mg twice daily, dabigatran etexilate capsules 150 mg twice daily significantly reduced the primary composite endpoint of stroke and systemic embolism (see Table 11 and Figure 4).

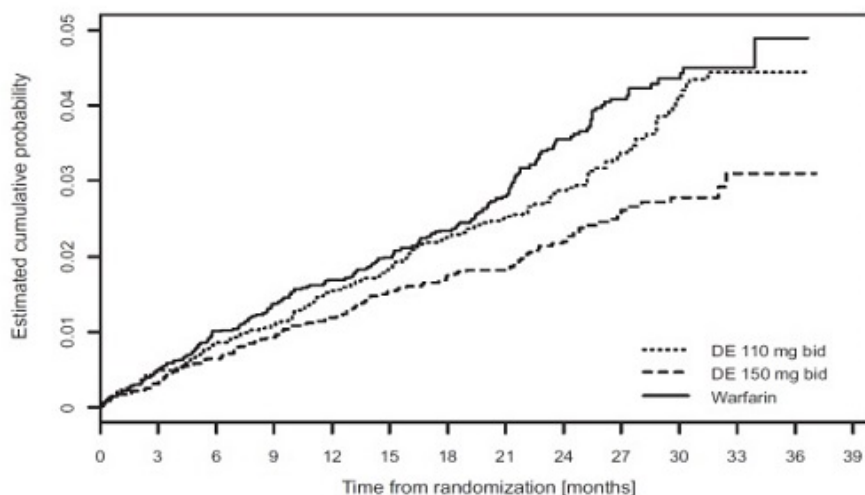
Table 11: First Occurrence of Stroke or Systemic Embolism in the RE-LY Study*

	Dabigatran Etexilate Capsules 150 mg twice daily	Dabigatran Etexilate Capsules 110 mg twice daily	Warfarin
Patients randomized	6,076	6,015	6,022

Patients (% per yr) with events	135 (1.12%)	183 (1.54%)	203 (1.72%)
Hazard ratio vs warfarin (95% CI)	0.65 (0.52, 0.81)	0.89 (0.73, 1.09)	
P-value for superiority	0.0001	0.27	
Hazard ratio vs dabigatran 110 mg (95% CI)	0.72 (0.58, 0.91)		
P-value for superiority	0.005		

* Randomized ITT

Figure 4: Kaplan-Meier Curve Estimate of Time to First Stroke or Systemic Embolism



Subjects at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39
DE 110 mg bid	6015	5927	5862	5797	5713	5481	4615	3778	3132	2386	1446	495	87	
DE 150 bid mg	6076	6010	5940	5861	5782	5555	4700	3847	3238	2428	1481	494	90	
Warfarin	6022	5937	5862	5782	5719	5438	4615	3702	3091	2338	1364	383	76	

The contributions of the components of the composite endpoint, including stroke by subtype, are shown in Table 12. The treatment effect was primarily a reduction in stroke. Dabigatran etexilate capsules 150 mg twice daily was superior in reducing ischemic and hemorrhagic strokes relative to warfarin.

Table 12: Strokes and Systemic Embolism in the RE-LY Study

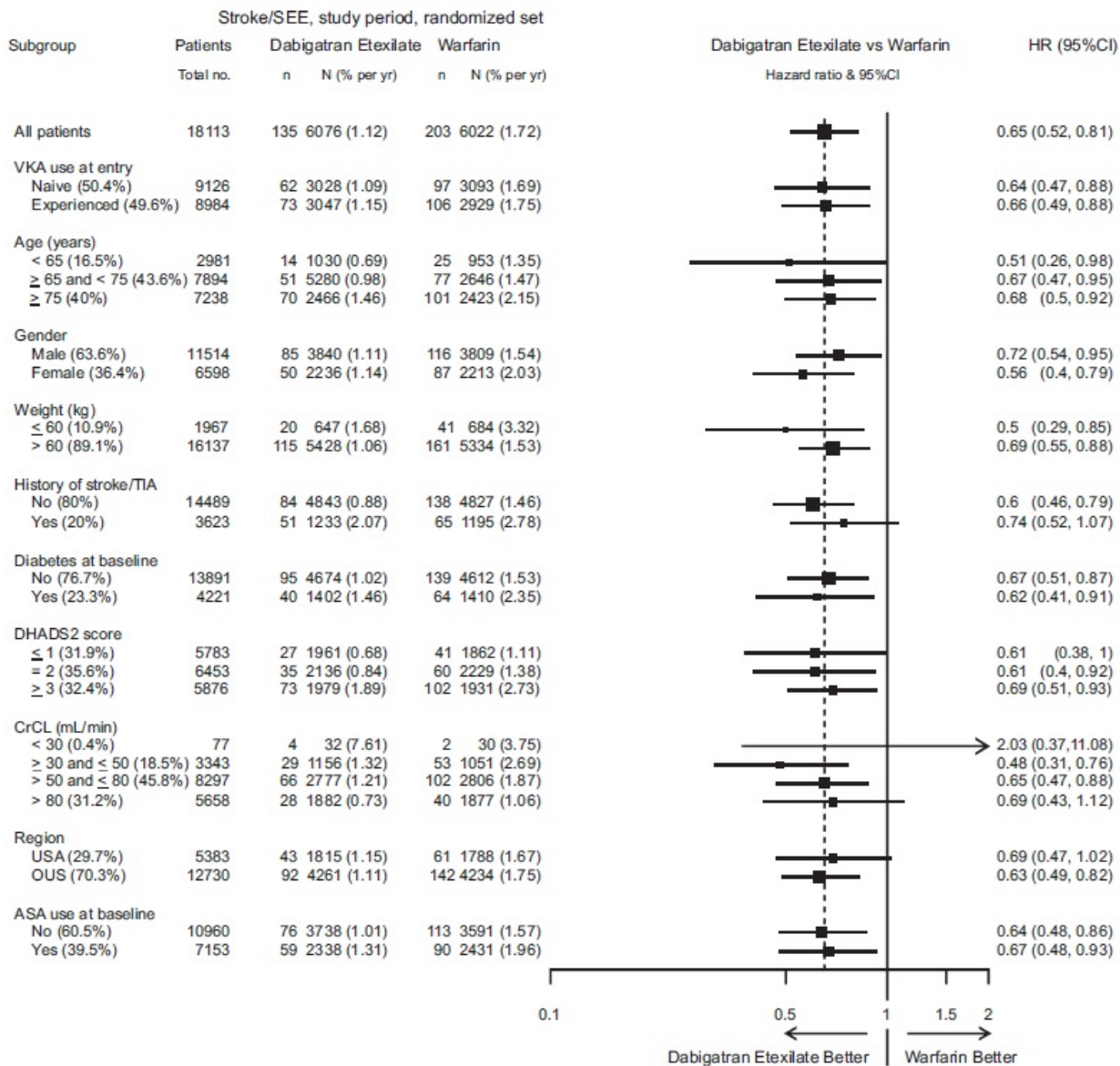
	Dabigatran Etexilate Capsules 150 mg twice daily	Warfarin	Hazard ratio vs warfarin (95% CI)
Patients randomized	6,076	6,022	
Stroke	123	187	0.64 (0.51, 0.81)
Ischemic stroke	104	134	0.76 (0.59, 0.98)
Hemorrhagic stroke	12	45	0.26 (0.14, 0.49)
Systemic embolism	13	21	0.61 (0.3, 1.21)

In the RE-LY trial, the rate of all-cause mortality was lower on dabigatran etexilate capsules 150 mg than on warfarin (3.6% per year versus 4.1% per year). The rate of

vascular death was lower on dabigatran etexilate capsules 150 mg compared to warfarin (2.3% per year versus 2.7% per year). Non-vascular death rates were similar in the treatment arms.

The efficacy of dabigatran etexilate capsules 150 mg twice daily was generally consistent across major subgroups (see Figure 5).

Figure 5: Stroke and Systemic Embolism Hazard Ratios by Baseline Characteristics*



* Randomized ITT

Note: The figure above presents effects in various subgroups all of which are baseline characteristics and all of which were pre-specified. The 95% confidence limits that are shown do not take into account how many comparisons were made, nor do they reflect the effect of a particular factor after adjustment for all other factors. Apparent homogeneity or heterogeneity among groups should not be over-interpreted.

In RE-LY, a higher rate of clinical myocardial infarction was reported in patients who received dabigatran etexilate capsules (0.7 per 100 patient-years for 150 mg dose) than in those who received warfarin (0.6).

14.2 Treatment and Reduction in the Risk of Recurrence of Deep Venous Thrombosis and Pulmonary Embolism in Adult Patients

In the randomized, parallel group, double-blind trials, RE-COVER and RE-COVER II, patients with deep vein thrombosis and pulmonary embolism received dabigatran etexilate capsules 150 mg twice daily or warfarin (dosed to target INR of 2 to 3) following initial treatment with an approved parenteral anticoagulant for 5 to 10 days.

In RE-COVER, the median treatment duration during the oral only treatment period was 174 days. A total of 2,539 patients (30.9% patients with symptomatic PE with or without DVT and 68.9% with symptomatic DVT only) were treated with a mean age of 54.7 years. The patient population was 58.4% male, 94.8% white, 2.6% Asian, and 2.6% black. The concomitant diseases of patients in this trial included hypertension (35.9%), diabetes mellitus (8.3%), coronary artery disease (6.5%), active cancer (4.8%), and gastric or duodenal ulcer (4.4%). Concomitant medications included agents acting on renin-angiotensin system (25.2%), vasodilators (28.4%), serum lipid-reducing agents (18.2%), NSAIDs (21%), beta-blockers (14.8%), calcium channel blockers (8.5%), ASA (8.6%), and platelet inhibitors excluding ASA (0.6%). Patients randomized to warfarin had a mean percentage of time in the INR target range of 2 to 3 of 60% in RE-COVER study.

In RE-COVER II, the median treatment duration during the oral only treatment period was 174 days. A total of 2,568 patients (31.8% patients with symptomatic PE with or without DVT and 68.1% with symptomatic DVT only) were treated with a mean age of 54.9 years. The patient population was 60.6% male, 77.6% white, 20.9% Asian, and 1.5% black. The concomitant diseases of patients in this trial included hypertension (35.1%), diabetes mellitus (9.8%), coronary artery disease (7.1%), active cancer (3.9%), and gastric or duodenal ulcer (3.8%). Concomitant medications included agents acting on renin-angiotensin system (24.2%), vasodilators (28.6%), serum lipid-reducing agents (20%), NSAIDs (22.3%), beta-blockers (14.8%), calcium channel blockers (10.8%), ASA (9.8%), and platelet inhibitors excluding ASA (0.8%). Patients randomized to warfarin had a mean percentage of time in the INR target range of 2 to 3 of 57% in RE-COVER II study.

In studies RE-COVER and RE-COVER II, the protocol specified non-inferiority margin (2.75) for the hazard ratio was derived based on the upper limit of the 95% confidence interval of the historical warfarin effect. Dabigatran etexilate capsules was demonstrated to be non-inferior to warfarin (dosed to target INR of 2 to 3) (Table 13) based on the primary composite endpoint (fatal PE or symptomatic non-fatal PE and/or DVT) and retains at least 66.9% (RE-COVER) and 63.9% (RE-COVER II) of the historical warfarin effect, respectively.

Table 13: Primary Efficacy Endpoint for RE-COVER and RE-COVER II - Modified ITT^a Population

		Dabigatran Etexilate Capsules 150 mg twice daily N (%)	Warfarin N (%)	Hazard ratio vs warfarin (95% CI)
RE-COVER		N=1,274	N=1,265	
Primary Composite Endpoint ^b		34 (2.7)	32 (2.5)	1.05 (0.65, 1.7)
Fatal PE ^c		1 (0.1)	3 (0.2)	
Symptomatic non-fatal PE ^c		16 (1.3)	8 (0.6)	
Symptomatic recurrent DVT ^c		17 (1.3)	23 (1.8)	
RE-COVER II		N=1,279	N=1,289	
Primary Composite		34 (2.7)	30 (2.3)	1.13 (0.69,

Endpoint ^b			1.85)
Fatal PE ^c	3 (0.2)	0	
Symptomatic non-fatal PE ^c	9 (0.7)	15 (1.2)	
Symptomatic recurrent DVT ^c	30 (2.3)	17 (1.3)	

^aModified ITT analyses population consists of all randomized patients who received at least one dose of study medication.

^bNumber of patients with one or more event.

^cNumber of events. For patients with multiple events each event is counted independently.

In the randomized, parallel-group, double-blind, pivotal trial, RE-MEDY, patients received dabigatran etexilate capsules 150 mg twice daily or warfarin (dosed to target INR of 2 to 3) following 3 to 12 months of treatment with anticoagulation therapy for an acute VTE. The median treatment duration during the treatment period was 534 days. A total of 2,856 patients were treated with a mean age of 54.6 years. The patient population was 61% male, and 90.1% white, 7.9% Asian and 2% black. The concomitant diseases of patients in this trial included hypertension (38.6%), diabetes mellitus (9%), coronary artery disease (7.2%), active cancer (4.2%), and gastric or duodenal ulcer (3.8%). Concomitant medications included agents acting on renin-angiotensin system (27.9%), vasodilators (26.7%), serum lipid reducing agents (20.6%), NSAIDs (18.3%), beta-blockers (16.3%), calcium channel blockers (11.1%), aspirin (7.7%), and platelet inhibitors excluding ASA (0.9%). Patients randomized to warfarin had a mean percentage of time in the INR target range of 2 to 3 of 62% in the study.

In study RE-MEDY, the protocol specified non-inferiority margin (2.85) for the hazard ratio was derived based on the point estimate of the historical warfarin effect. Dabigatran etexilate capsules was demonstrated to be non-inferior to warfarin (dosed to target INR of 2 to 3) (Table 14) based on the primary composite endpoint (fatal PE or symptomatic non-fatal PE and/or DVT) and retains at least 63% of the historical warfarin effect. If the non-inferiority margin was derived based on the 50% retention of the upper limit of the 95% confidence interval, dabigatran etexilate capsules was demonstrated to retain at least 33.4% of the historical warfarin effect based on the composite primary endpoint.

Table 14: Primary Efficacy Endpoint for RE-MEDY - Modified ITT^a Population

		Dabigatran Etexilate Capsules 150 mg twice daily N=1,430 N (%)	Warfarin N=1,426 N (%)	Hazard ratio vs warfarin (95% CI)
Primary Endpoint ^b	Composite	26 (1.8)	18 (1.3)	1.44 (0.78, 2.64)
Fatal PE ^c		1 (0.07)	1 (0.07)	
Symptomatic PE ^c	non-fatal	10 (0.7)	5 (0.4)	
Symptomatic DVT ^c	recurrent	17 (1.2)	13 (0.9)	

^aModified ITT analyses population consists of all randomized patients who received at least one dose of study medication.

^bNumber of patients with one or more event.

^cNumber of events. For patients with multiple events each event is counted independently.

In a randomized, parallel-group, double-blind, pivotal trial, RE-SONATE, patients received dabigatran etexilate capsules 150 mg twice daily or placebo following 6 to 18 months of treatment with anticoagulation therapy for an acute VTE. The median treatment duration was 182 days. A total of 1,343 patients were treated with a mean age of 55.8 years. The patient population was 55.5% male, 89% white, 9.3% Asian, and 1.7% black. The concomitant diseases of patients in this trial included hypertension (38.8%), diabetes mellitus (8%), coronary artery disease (6%), history of cancer (6%), gastric or duodenal ulcer (4.5%), and heart failure (4.6%). Concomitant medications included agents acting on renin-angiotensin system (28.7%), vasodilators (19.4%), beta-blockers (18.5%), serum lipid reducing agents (17.9%), NSAIDs (12.1%), calcium channel blockers (8.9%), aspirin (8.3%), and platelet inhibitors excluding ASA (0.7%). Based on the outcome of the primary composite endpoint (fatal PE, unexplained death, or symptomatic non-fatal PE and/or DVT), dabigatran etexilate was superior to placebo (Table 15).

Table 15: Primary Efficacy Endpoint for RE-SONATE - Modified ITT^a Population

	Dabigatran Etexilate Capsules 150 mg twice daily N=681 N (%)	Placebo N=662 N (%)	Hazard ratio vs placebo (95% CI)
Primary Composite Endpoint ^b	3 (0.4)	37 (5.6)	0.08 (0.02, 0.25) p-value <0.0001
Fatal PE and unexplained death ^c	0	2 (0.3)	
Symptomatic non-fatal PE ^c	1 (0.1)	14 (2.1)	
Symptomatic recurrent DVT ^c	2 (0.3)	23 (3.5)	

^aModified ITT analyses population consists of all randomized patients who received at least one dose of study medication.

^bNumber of patients with one or more events.

^cNumber of events. For patients with multiple events each event is counted independently.

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16 HOW SUPPLIED/STORAGE AND HANDLING

Dabigatran etexilate capsules 75 mg are with white opaque cap / white opaque body,

size '2' HPMC capsules having imprinting "A" on cap with black ink and "329" on body with black ink, filled with off white to yellowish pellets. The capsules are supplied in the packages listed:

Bottle of 60 capsules with child resistant closure, NDC 62332-634-60

Carton of 60 capsules (10 x 6 unit-dose blister cards), NDC 62332-634-06

Dabigatran etexilate capsules 150 mg are with light blue opaque cap / white opaque body, size '0' HPMC capsules having imprinting "A" on cap with black ink and "316" on body with black ink, filled with off white to yellowish pellets. The capsules are supplied in the packages listed:

Bottle of 60 capsules with child resistant closure, NDC 62332-636-60

Carton of 60 capsules (10 x 6 unit-dose blister cards), NDC 62332-636-06

Bottles

Store at 20°C to 25°C (68°F to 77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature]. Once opened, the product must be used within 4 months. Keep the bottle tightly closed. Store in the original package to protect from moisture.

Blisters

Store at 20°C to 25°C (68°F to 77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature]. Store in the original package to protect from moisture.

17 PATIENT COUNSELING INFORMATION

Advise the patient or caregiver to read the FDA-approved patient labeling (Medication Guide).

Instructions for Patients

- Tell patients to take dabigatran etexilate capsules exactly as prescribed.
- Remind patients not to discontinue dabigatran etexilate capsules without talking to the healthcare provider who prescribed it.
- Keep dabigatran etexilate capsules in the original bottle to protect from moisture. Do not put dabigatran etexilate capsules in pill boxes or pill organizers.
- When more than one bottle is dispensed to the patient, instruct them to open only one bottle at a time.
- Instruct patient to remove only one capsule from the opened bottle at the time of use. The bottle should be immediately and tightly closed.
- Advise patients not to chew or break the capsules before swallowing them and not to open the capsules and take the pellets alone.
- Advise patients that the capsule should be taken with a full glass of water.

[see *Boxed Warning, Dosage and Administration (2.5)*]

Bleeding

Inform patients that they may bleed more easily, may bleed longer, and should call their healthcare provider for any signs or symptoms of bleeding [see *Warnings and Precautions (5.2)*].

Instruct patients to seek emergency care right away if they have any of the following, which may be a sign or symptom of serious bleeding:

- Unusual bruising (bruises that appear without known cause or that get bigger)
- Pink or brown urine
- Red or black, tarry stools

- Coughing up blood
- Vomiting blood, or vomit that looks like coffee grounds

Instruct patients to call their healthcare provider or to get prompt medical attention if they experience any signs or symptoms of bleeding:

- Pain, swelling or discomfort in a joint
- Headaches, dizziness, or weakness
- Reoccurring nose bleeds
- Unusual bleeding from gums
- Bleeding from a cut that takes a long time to stop
- Menstrual bleeding or vaginal bleeding that is heavier than normal

If patients have had neuraxial anesthesia or spinal puncture, and particularly, if they are taking concomitant NSAIDs or platelet inhibitors, advise patients to watch for signs and symptoms of spinal or epidural hematoma, such as back pain, tingling, numbness (especially in the lower limbs), muscle weakness, and stool or urine incontinence. If any of these symptoms occur, advise the patient to contact his or her physician immediately [see *Boxed Warning*].

Gastrointestinal Adverse Reactions

Instruct patients to call their healthcare provider if they experience any signs or symptoms of dyspepsia or gastritis:

- Dyspepsia (upset stomach), burning, or nausea
- Abdominal pain or discomfort
- Epigastric discomfort, GERD (gastric indigestion)

[see *Adverse Reactions (6.1)*]

Invasive or Surgical Procedures

Instruct patients to inform their healthcare provider that they are taking dabigatran etexilate capsules before any invasive procedure (including dental procedures) is scheduled [see *Dosage and Administration (2.8)*].

Concomitant Medications

Ask patients to list all prescription medications, over-the-counter medications, or dietary supplements they are taking or plan to take so their health care provider knows about other treatments that may affect bleeding risk (e.g., aspirin or NSAIDs) or dabigatran exposure (e.g., dronedarone or systemic ketoconazole) [see *Warnings and Precautions (5.2, 5.5)*].

Prosthetic Heart Valves

Instruct patients to inform their healthcare provider if they will have or have had surgery to place a prosthetic heart valve [see *Warnings and Precautions (5.4)*].

Allergic Reactions

Advise adult patients and caregivers that some adults taking dabigatran etexilate capsules have developed symptoms of an allergic reaction. Advise adult patients or caregivers to inform their healthcare provider if they develop symptoms of an allergic reaction, such as hives, rash, or itching. Advise adult patients or caregivers to seek emergency medical attention if they develop chest pain or tightness, swelling of the face or tongue, trouble breathing or wheezing, or feeling dizzy or faint.

Pregnancy

Advise patients to inform their healthcare provider immediately if they become pregnant or intend to become pregnant during treatment with dabigatran etexilate capsules[see *Use in Specific Populations (8.1)*].

Lactation

Advise patients not to breastfeed if they are taking dabigatran etexilate capsules[see *Use in Specific Populations (8.2)*].

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Medication Guide available at <https://www.alembicusa.com/medicationguide.aspx> or call 1-866-210-9797.

Manufactured by:

Alembic Pharmaceuticals Limited

(Formulation Division),

Panelav 389350, Gujarat, India

Manufactured for:

Alembic Pharmaceuticals, Inc.

Bedminster, NJ 07921, USA

Revised: 06/2024

<p style="text-align: center;">MEDICATION GUIDE Dabigatran Etexilate (DA-bi-GAT-ran E-tex-i-late) Capsules</p>

This Medication Guide is for dabigatran etexilate capsules.

Read this Medication Guide before you start taking dabigatran etexilate capsules and each time you get a refill. There may be new information. This Medication Guide does not take the place of talking with your healthcare provider about your medical condition or your treatment.

What is the most important information I should know about dabigatran etexilate capsules?

- People with atrial fibrillation (a type of irregular heartbeat) are at an increased risk of forming a blood clot in the heart, which can travel to the brain, causing a stroke, or to other parts of the body. Dabigatran etexilate capsule lowers your chance of having a stroke by helping to prevent clots from forming. If you stop taking dabigatran etexilate capsules, you may have increased risk of forming a clot in your blood.

Do not stop taking dabigatran etexilate capsules without talking to the healthcare provider who prescribes it for you. Stopping dabigatran etexilate capsules increases your risk of having a stroke.

Dabigatran etexilate capsules may need to be stopped, if possible, before surgery or a medical or dental procedure. Ask the healthcare provider who prescribed dabigatran etexilate capsules for you when you should stop taking it. Your healthcare provider will tell you when you may start taking dabigatran etexilate capsules again after your surgery or procedure. If you have to stop taking dabigatran etexilate capsules, your healthcare provider may prescribe another medicine to help

prevent a blood clot from forming.

- Dabigatran etexilate capsules can cause bleeding which can be serious, and sometimes lead to death. This is because dabigatran etexilate capsule is a blood thinner medicine that lowers the chance of blood clots forming in your body.

- **You may have a higher risk of bleeding if you take dabigatran etexilate capsules and:**
 - o are over 75 years old
 - o have kidney problems
 - o have stomach or intestine bleeding that is recent or keeps coming back, or you have a stomach ulcer

- o take other medicines that increase your risk of bleeding, including:
 - aspirin or aspirin-containing products
 - long-term (chronic) use of non-steroidal anti-inflammatory drugs (NSAIDs)
 - a medicine that contains warfarin sodium
 - a medicine that contains heparin
 - a medicine that contains clopidogrel bisulfate
 - a medicine that contains prasugrel
- o have certain kidney problems and also take a medicine that contains dronedarone or ketoconazole tablets.

Tell your healthcare provider if you take any of these medicines. Ask your healthcare provider or pharmacist if you are not sure if your medicine is one listed above.

- Dabigatran etexilate capsules can increase your risk of bleeding because it lessens the ability of your blood to clot. During treatment with dabigatran etexilate capsules:

- o you may bruise more easily
- o it may take longer for any bleeding to stop

Call your healthcare provider or get medical help right away if you have any of these signs or symptoms of bleeding:

- o unexpected bleeding or bleeding that lasts a long time, such as:
 - unusual bleeding from the gums
 - nose bleeds that happen often
 - menstrual bleeding or vaginal bleeding that is heavier than normal
- o bleeding that is severe or you cannot control
- o pink or brown urine
- o red or black stools (looks like tar)
- o bruises that happen without a known cause or get larger
- o cough up blood or blood clots
- o vomit blood or your vomit looks like “coffee grounds”
- o unexpected pain, swelling, or joint pain
- o headaches, feeling dizzy or weak

Take dabigatran etexilate capsules exactly as prescribed. Do not stop taking dabigatran etexilate capsules without first talking to the healthcare provider who prescribes it for you. Stopping dabigatran etexilate capsules may increase your risk of a stroke.

- **Spinal or epidural blood clots (hematoma).** People who take a blood thinner medicine (anticoagulant) like dabigatran etexilate capsules, and have medicine injected into their spinal and epidural area, or have a spinal puncture have a risk of forming a blood clot that can cause long-term or permanent loss of the ability to move (paralysis).

Your risk of developing a spinal or epidural blood clot is higher if:

- o a thin tube called an epidural catheter is placed in your back to give you certain medicine
- o you take NSAIDs or a medicine to prevent blood from clotting
- o you have a history of difficult or repeated epidural or spinal punctures
- o you have a history of problems with your spine or have had surgery on your spine

If you take dabigatran etexilate capsules and receive spinal anesthesia or have a spinal puncture, your healthcare provider should watch you closely for symptoms of spinal or epidural blood clots. Tell your healthcare provider right away if you have back pain, tingling, numbness, muscle weakness (especially in your legs and feet), loss of control of the bowels or bladder (incontinence).

See “What are the possible side effects of dabigatran etexilate capsules?” for more information about side effects.

What are dabigatran etexilate capsules?

Dabigatran etexilate capsules are a prescription medicine that is used to:

• **in adults:**

- o reduce the risk of stroke and blood clots in adults who have a medical condition called atrial fibrillation that is not caused by heart valve problem. With atrial fibrillation, part of the heart does not beat the way it should. This can lead to blood clots forming and increase your risk of a stroke.
- o treat blood clots in the veins of your legs (deep vein thrombosis) and lungs (pulmonary embolism) after you have been treated with an injectable medicine to treat your blood clots for 5 to 10 days.
- o reduce your risk of blood clots from happening again in the veins of your legs (deep vein thrombosis) and lungs (pulmonary embolism) after you have received treatment for blood clots.

It is not known if dabigatran etexilate capsules are safe and effective in children with atrial fibrillation not caused by a heart valve problem, or in children who have undergone hip replacement surgery.

Do not take dabigatran etexilate capsules if you:

- currently have certain types of abnormal bleeding. Talk to your healthcare provider before taking dabigatran etexilate capsules if you currently have unusual bleeding.
- have had a serious allergic reaction to any of the ingredients in dabigatran etexilate capsules. See the end of this Medication Guide for a complete list of ingredients in dabigatran etexilate capsules. Ask your healthcare provider if you are not sure.
- have ever had or plan to have a valve in your heart replaced with a mechanical (artificial) prosthetic heart valve

Before taking dabigatran etexilate capsules, tell your healthcare provider about all of your medical conditions, including if you:

- have kidney problems
- have ever had bleeding problems
- have ever had stomach ulcers
- have antiphospholipid syndrome (APS)
- are pregnant or plan to become pregnant. It is not known if dabigatran etexilate capsules will harm your unborn baby. Tell your healthcare provider right away if you become pregnant during treatment with dabigatran etexilate capsules.

Females who are able to become pregnant: Talk with your healthcare provider about pregnancy planning during treatment with dabigatran etexilate capsules. Talk with your healthcare provider about your risk for severe uterine bleeding if you are treated with blood thinner medicines, including dabigatran etexilate capsules.

- are breastfeeding or plan to breastfeed. It is not known if dabigatran passes into your breast milk. You should not breastfeed during treatment with dabigatran etexilate capsules. Talk to your healthcare provider about the best way to feed your baby during treatment with dabigatran etexilate capsules. Tell all of your healthcare providers and dentists that you are taking dabigatran etexilate capsules. They should talk to the healthcare provider who prescribed dabigatran etexilate capsules for you before you have **any** surgery or a medical or dental procedure.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

Some of your other medicines may affect the way dabigatran etexilate capsules works. Certain medicines may increase your risk of bleeding. See **“What is the most important information I should know about dabigatran etexilate capsules?”**

Especially tell your healthcare provider if you take a medicine that contains rifampin.

Know the medicines you take. Keep a list of them and show it to your healthcare provider and pharmacist when you get a new medicine.

How should I take dabigatran etexilate capsules?

- Your healthcare provider will decide how long you should take dabigatran etexilate capsules. **Do not stop taking dabigatran etexilate capsules without first talking with your healthcare provider. Stopping dabigatran etexilate capsules may increase your risk of having a stroke or forming blood clots.**
- **Take dabigatran etexilate capsules exactly as prescribed by your healthcare provider.**
- **In adults:** Take dabigatran etexilate capsules 2 times a day. If you are taking dabigatran etexilate capsules after hip replacement surgery, take dabigatran etexilate capsules 1 time a day.
- You can take dabigatran etexilate capsules with or without food. Taking dabigatran etexilate capsules with food may help if you have an upset stomach.
- Swallow dabigatran etexilate capsules whole with a full glass of water. Tell your healthcare provider if you are not able to swallow the capsules whole. Do not break, chew, or empty the pellets from the

capsule.

- **Do not** run out of dabigatran etexilate capsules. Refill your prescription before you run out. If you plan to have surgery, or a medical or a dental procedure, tell your healthcare provider and dentist that you are taking dabigatran etexilate capsules. You may have to stop taking dabigatran etexilate capsules for a short time. See **“What is the most important information I should know about dabigatran etexilate capsules?”**

- If you miss a dose of dabigatran etexilate capsules, take it as soon as you remember. If your next dose is less than 6 hours away, skip the missed dose. Do not take two doses of dabigatran etexilate capsules at the same time.

- If you take too much dabigatran etexilate capsules, go to the nearest hospital emergency room or call your healthcare provider.

- Call your healthcare provider right away if you fall or injure yourself, especially if you hit your head. Your healthcare provider may need to check you.

- Dabigatran etexilate capsules come in a bottle or in a blister package.

- Only open 1 bottle of dabigatran etexilate capsules at a time. Finish your opened bottle of dabigatran etexilate capsules before opening a new bottle.

- After opening a bottle of dabigatran etexilate capsules, use within 4 months. See **“How should I store dabigatran etexilate capsules?”**

- When it is time for you to take a dose of dabigatran etexilate capsules, only remove your prescribed dose of dabigatran etexilate capsules from your open bottle or blister package.

- Tightly close your bottle of dabigatran etexilate capsules right away after you take your dose.

What are the possible side effects of dabigatran etexilate capsules?

Dabigatran etexilate capsules can cause serious side effects. See **“What is the most important information I should know about dabigatran etexilate capsules?”**

- **Allergic Reactions.** Some adult taking, dabigatran etexilate capsules have developed symptoms of an allergic reaction.

o Call your healthcare provider if you get symptoms of an allergic reaction, such as:

- hives
- rash
- itching

o **Get medical help right away if you get any of the following symptoms of a serious allergic reaction with dabigatran etexilate capsules:**

- chest pain or chest tightness
- trouble breathing or wheezing
- swelling of your face or tongue
- feeling dizzy or faint

Common side effects of dabigatran etexilate capsules in adults include:

- indigestion, upset stomach, or burning
- stomach-area (abdominal) pain or discomfort

Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

These are not all of the possible side effects of dabigatran etexilate capsules. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store dabigatran etexilate capsules?

- Store dabigatran etexilate capsules at room temperature 68°F to 77°F (20°C to 25°C).

- After opening the bottle, use dabigatran etexilate capsules within 4 months. Safely throw away any unused dabigatran etexilate capsules after 4 months.

- **Keep dabigatran etexilate capsules in the original bottle or blister package to keep them dry (protect the capsules from moisture). Do not put dabigatran etexilate capsules in pill boxes or pill organizers.**

- **Tightly close your bottle of dabigatran etexilate capsules right away after you take your dose.**

Keep dabigatran etexilate capsules and all medicines out of the reach of children.

General information about the safe and effective use of dabigatran etexilate capsules

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use dabigatran etexilate capsules for a condition for which it was not prescribed. Do not give dabigatran etexilate capsules to other people, even if they have the same symptoms that you have. It may harm them.

This Medication Guide summarizes the most important information about dabigatran etexilate capsules. If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about dabigatran etexilate capsules that is written for health professionals.

What are the ingredients in dabigatran etexilate capsules?

Active ingredient: dabigatran etexilate mesylate

Inactive ingredients: pelletized tartaric acid, hypromellose phthalate, talc, hydroxypropyl cellulose. The capsule shell is composed of titanium dioxide, carrageenan, potassium chloride and hypromellose. Additionally, 150 mg capsule shell also contains FD&C Blue No. 2. The empty hard hypromellose capsule shells are printed with edible black ink containing shellac, iron oxide black and potassium hydroxide.

Pediatric use information is approved for Boehringer Ingelheim Pharmaceuticals, Inc.'s Pradaxa (dabigatran etexilate) capsules. However, due to Boehringer Ingelheim Pharmaceuticals, Inc.'s marketing exclusivity rights, this drug product is not labeled with that information.

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Medication Guide available at <https://www.alembicusa.com/medicationguide.aspx> or call 1-866-210-9797.

Manufactured by:

Alembic Pharmaceuticals Limited

(Formulation Division),

Panelav 389350, Gujarat, India

Manufactured for:

Alembic Pharmaceuticals, Inc.

Bedminster, NJ 07921, USA

For more information call Alembic Pharmaceuticals Limited at 1-866-210-9797.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

Revised: 06/2024

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 75 mg

NDC 62332-634-60

Dabigatran

Etexilate Capsules

75 mg

**DISPENSE IN THIS UNIT OF USE CONTAINER
WITH ENCLOSED MEDICATION GUIDE**

**Swallow capsule whole. Once opened, the
product must be used within 4 months.**

Dabigatran etexilate capsules are NOT
substitutable on a mg-to-mg basis with
other dabigatran etexilate dosage forms.

Rx only

60 Capsules

Each capsule contains 75 mg dabigatran etexilate equivalent to 86.48 mg dabigatran etexilate mesylate.
Usual Dosage: See package insert for dosage information.
 Store at 20°C to 25°C (68°F to 77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature].
 Store in the original package in order to protect from moisture.
 Keep the bottle tightly closed.



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NDC 62332-634-60

**Dabigatran
 Etexilate Capsules**

75 mg

**DISPENSE IN THIS UNIT OF USE CONTAINER
 WITH ENCLOSED MEDICATION GUIDE**

Swallow capsule whole. Once opened, the product must be used within 4 months.
 Dabigatran etexilate capsules are NOT substitutable on a mg-to-mg basis with other dabigatran etexilate dosage forms.
Rx only 60 Capsules

This package is child-resistant.
 Keep out of reach of children.
 Medication Guide available at
<https://www.alembicusa.com/medicationguide.aspx>
 or call 1-866-210-9797.
 Mfg. Lic. No. G/25/959 20029117 08/2023



GTIN: 00362332634606
 S.NO./EXP./LOT

Coding Area
 NOT TO BE
 PRINTED
 28x45 mm

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - 150 mg

NDC 62332-636-60

**Dabigatran
 Etexilate Capsules**

150 mg

**DISPENSE IN THIS UNIT OF USE CONTAINER
 WITH ENCLOSED MEDICATION GUIDE**

**Swallow capsule whole. Once opened, the
 product must be used within 4 months.**

Dabigatran etexilate capsules are NOT substitutable on a mg-to-mg basis with other dabigatran etexilate dosage forms.

**Rx only
 60 Capsules**

Each capsule contains 150 mg dabigatran etexilate equivalent to 172.95 mg dabigatran etexilate mesylate.
Usual Dosage: See package insert for dosage information.
 Store at 20°C to 25°C (68°F to 77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature].
 Store in the original package in order to protect from moisture.
 Keep the bottle tightly closed.



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NDC 62332-636-60

**Dabigatran
 Etexilate Capsules**

150 mg

**DISPENSE IN THIS UNIT OF USE CONTAINER
 WITH ENCLOSED MEDICATION GUIDE**

Swallow capsule whole. Once opened, the product must be used within 4 months.
 Dabigatran etexilate capsules are NOT substitutable on a mg-to-mg basis with other dabigatran etexilate dosage forms.
Rx only 60 Capsules

This package is child-resistant.
 Keep out of reach of children.
 Medication Guide available at
<https://www.alembicusa.com/medicationguide.aspx>
 or call 1-866-210-9797.
 Mfg. Lic. No. G/25/959 20029119 08/2023



GTIN: 00362332636600
 S.NO./EXP./LOT

Coding Area
 NOT TO BE
 PRINTED
 16x50 mm

DABIGATRAN ETEXILATE

dabigatran etexilate capsule

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:62332-634
Route of Administration	ORAL		

Active Ingredient/Active Moiety				
Ingredient Name		Basis of Strength	Strength	
DABIGATRAN ETEXILATE MESYLATE (UNII: SC7NUW5IIT) (DABIGATRAN - UNII:I0VM4M70GC)		DABIGATRAN ETEXILATE	75 mg	
Inactive Ingredients				
Ingredient Name		Strength		
TARTARIC ACID (UNII: W4888I119H)				
HYPROMELLOSE PHTHALATE (31% PHTHALATE, 40 CST) (UNII: G4U024CQK6)				
TALC (UNII: 7SEV7J4R1U)				
HYDROXYPROPYL CELLULOSE, UNSPECIFIED (UNII: 9XZ8H6N6OH)				
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)				
CARRAGEENAN (UNII: 5C69YCD2YJ)				
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)				
SHELLAC (UNII: 46N107B71O)				
FERROSFERRIC OXIDE (UNII: XM0M87F357)				
POTASSIUM HYDROXIDE (UNII: WZH3C48M4T)				
POTASSIUM CHLORIDE (UNII: 660YQ98I10)				
Product Characteristics				
Color	WHITE (White opaque)	Score	no score	
Shape	CAPSULE	Size	18mm	
Flavor		Imprint Code	A;329	
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:62332-634-60	60 in 1 BOTTLE; Type 0: Not a Combination Product	06/14/2024	
2	NDC:62332-634-06	10 in 1 CARTON	06/14/2024	
2		6 in 1 BLISTER PACK; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
ANDA	ANDA215233	06/14/2024		

DABIGATRAN ETEXILATE

dabigatran etexilate capsule

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:62332-636
Route of Administration	ORAL		

Active Ingredient/Active Moiety				
Ingredient Name		Basis of Strength	Strength	
DABIGATRAN ETEXILATE MESYLATE (UNII: SC7NUW5IIT) (DABIGATRAN - UNII:I0VM4M70GC)		DABIGATRAN ETEXILATE	150 mg	
Inactive Ingredients				
Ingredient Name		Strength		
TARTARIC ACID (UNII: W4888I119H)				
HYPROMELLOSE PHTHALATE (31% PHTHALATE, 40 CST) (UNII: G4U024CQK6)				
TALC (UNII: 7SEV7J4R1U)				
HYDROXYPROPYL CELLULOSE, UNSPECIFIED (UNII: 9XZ8H6N6OH)				
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)				
CARRAGEENAN (UNII: 5C69YCD2YJ)				
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)				
SHELLAC (UNII: 46N107B71O)				
FERROSFERRIC OXIDE (UNII: XM0M87F357)				
POTASSIUM HYDROXIDE (UNII: WZH3C48M4T)				
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)				
POTASSIUM CHLORIDE (UNII: 660YQ98I10)				
Product Characteristics				
Color	BLUE (Light blue opaque) , WHITE (White opaque)	Score	no score	
Shape	CAPSULE	Size	21mm	
Flavor		Imprint Code	A;316	
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:62332-636-60	60 in 1 BOTTLE; Type 0: Not a Combination Product	06/14/2024	
2	NDC:62332-636-06	10 in 1 CARTON	06/14/2024	
2		6 in 1 BLISTER PACK; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
ANDA	ANDA215233	06/14/2024		

Labeler - Alembic Pharmaceuticals Inc. (079288842)

Establishment

Name	Address	ID/FEI	Business Operations
Alembic Pharmaceuticals Limited		650574671	MANUFACTURE(62332-634, 62332-636)