

ARIXTRA™ Fondaparinux sodium (fondaparinux)

QUALITATIVE AND QUANTITATIVE COMPOSITION
Each syringe contains 2.5 mg of fondaparinux sodium in 0.5 ml solution for injection. The solution is a clear and colorless liquid.

Each syringe contains 5.0 mg of fondaparinux sodium in 0.4 ml solution for injection. The solution is clear and colorless to slightly yellow.

Each syringe contains 7.5 mg of fondaparinux sodium in 0.6 ml solution for injection. The solution is clear and colorless to slightly yellow.

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Medical patients at risk of thromboembolic complications: the recommended dose of ARIXTRA is 2.5 mg once daily administered by subcutaneous injection. A treatment duration of 6 to 14 days has been clinically studied in medical patients (see Clinical Studies).

TREATMENT OF DVT AND PE
The recommended dose of ARIXTRA to be administered by subcutaneous injection once daily is:

- 5 mg for body weight less than 50 kg;
- 7.5 mg for body weight 50 kg to 100 kg;
- 10 mg for body weight greater than 100 kg.

Patients with a body weight less than 50 kg should be administered 5 mg once daily. In patients with a body weight greater than 100 kg, the use of ARIXTRA for the sole anticoagulant during POC is not recommended; therefore UFH should be used according to standard practice (see Dosage and Administration).

PCU and risk of guiding catheter thrombosis - In STEM patients undergoing primary POC for reperfusion, the use of ARIXTRA prior to and during POC is not recommended; in UANSTEM and STEM patients undergoing non-primary POC, the use of ARIXTRA for the sole anticoagulant during POC is not recommended; therefore UFH should be used according to standard practice (see Dosage and Administration).

In a clinical trial comparing two doses of regimen of UFH during non-primary POC, fondaparinux-treated UANSTEM patients were randomized to receive either "standard dose UFH" (median dose 500kg) or "low dose UFH" (median dose 500kg). The incidence of per-PCU major bleeding was 1.2% with standard dose UFH and 1.4% with "low dose UFH" (see Clinical Studies).

Clinical trials have shown a low but increased risk of guiding catheter thrombosis in patients treated solely with ARIXTRA for anticoagulation during POC compared to control. Incidences in non-primary POC in UANSTEM were 1.0% vs 0.3% (ARIXTRA vs. enoxaparin) and in primary POC in STEM were 1.2% vs 0% (ARIXTRA vs. control). In fondaparinux-treated UANSTEM patients randomized to receive "standard dose" or "low dose" regimens of UFH during non-primary POC, the incidences of catheter thrombosis were 0.1% and 0.5%, respectively (see Clinical Studies).

Haemorrhage - ARIXTRA like other anticoagulants must be used with caution in conditions with an increased risk of haemorrhage, (such as congenital or acquired bleeding disorders, active ulcerative gastrointestinal disease, recent intracranial haemorrhage, shortly after brain, spinal or ophthalmic surgery).

Prevention and treatment of VTE
Other medicinal products enhancing the risk of haemorrhage, with the exception of vitamin K antagonists used concomitantly for treatment of VTE, should not be administered with ARIXTRA. If co-administration is essential, close monitoring is recommended (see Interactions).

Prevention of VTE following surgery (timing of first ARIXTRA injection)
The timing of the first injection requires strict adherence. The first dose should be given no earlier than 6 hours following surgical closure, and only after haemostasis has been established. Administration before 6 hours has been associated with an increased risk of major bleeding. Patient groups at particular risk are those from 15 years of age, body weight of less than 50 kg, or renal impairment with creatinine clearance less than 30 ml/min.

Treatment of UANSTEM and STEM
ARIXTRA should be used with caution in patients who are being treated concomitantly with other medicinal products that increase the risk of haemorrhage (such as GPIIb/IIIa inhibitors or thrombolytics).

Spinal/epidural anaesthesia/spinal puncture - Epidural or spinal haematomas that may result in long-term or permanent paralysis can occur with the use of anticoagulants and spinal/epidural anaesthesia or spinal puncture. The risk of these rare events may be higher with post-operative use of indwelling epidural catheters or the concomitant use of other medicinal products affecting haemostasis.

Elderly patients - The elderly population is at increased risk of bleeding. As renal function generally decreases with age, elderly patients may show reduced elimination and increased exposure of ARIXTRA. ARIXTRA should be used with caution in elderly patients (see Dosage and Administration).

Low body weight - Patients with body weight less than 50 kg are at increased risk of bleeding. Elimination of ARIXTRA decreases with weight decrease. ARIXTRA should be used with caution in these patients (see Dosage and Administration).

Renal impairment - The plasma clearance of fondaparinux decreases with the severity of renal impairment, and is associated with an increased risk of haemorrhage (see Pharmacokinetics).

Patients with renal impairment, particularly those with a creatinine clearance of less than 30 ml/min are at increased risk of both major bleeding episodes and VTE.

Prevention of VTE
There are limited clinical data available for the use of fondaparinux for prevention of VTE in patients with creatinine clearance less than 30 ml/min. Therefore, ARIXTRA is not recommended for prevention of VTE in these patients (see Dosage and Administration, Pharmacokinetics).

Treatment of VTE
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Treatment of UANSTEM and STEM
ARIXTRA is not recommended for use in patients with a creatinine clearance of less than 20 ml/min (see Warnings and Precautions). No dosage reduction is required for patients with a creatinine clearance greater than or equal to 20 ml/min.

• Hepatic impairment
No dosage adjustment of ARIXTRA is necessary in patients with mild to moderate hepatic impairment (see Pharmacokinetics). In patients with severe hepatic impairment, ARIXTRA should be used with caution (see Warnings and Precautions).

Contraindications
- known hypersensitivity to ARIXTRA or any of the excipients.

- active clinically significant bleeding;
- acute bacterial endocarditis.

Warnings and Precautions
Health of administration - ARIXTRA must be administered intramuscularly (see Dosage and Administration).

PCU and risk of guiding catheter thrombosis - In STEM patients undergoing primary POC for reperfusion, the use of ARIXTRA prior to and during POC is not recommended; in UANSTEM and STEM patients undergoing non-primary POC, the use of ARIXTRA for the sole anticoagulant during POC is not recommended; therefore UFH should be used according to standard practice (see Dosage and Administration).

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• Hepatic impairment
No dosage adjustment of ARIXTRA is necessary in patients with mild to moderate hepatic impairment (see Pharmacokinetics). In patients with severe hepatic impairment, ARIXTRA should be used with caution (see Warnings and Precautions).

Heparin Induced Thrombocytopenia - ARIXTRA does not bind to platelet factor 4 and does not cross-react with sera from patients with Heparin Induced Thrombocytopenia (HIT)-type II. It should be used with caution in patients with a history of HIT. The efficacy and safety of ARIXTRA have not been formally studied in HIT-type II. Rare spontaneous reports of HIT in patients treated with ARIXTRA have been received. To date a causal association between treatment with ARIXTRA and the occurrence of HIT has not been established.

Latex Allergy - The needle shield of the pre-filled syringe contains dry natural latex rubber that has the potential to cause allergic reactions in latex sensitive individuals.

Interactions
Fondaparinux does not markedly inhibit CYP450s (CYP1A2, CYP2A6, CYP2C9, CYP2C19, CYP2D6, CYP2E1 or CYP3A4) in vitro. Thus, ARIXTRA is not expected to interact with other medicinal products in vivo by inhibition of CYP-mediated metabolism.

Since fondaparinux does not bind significantly to plasma proteins other than ATIII, no interaction with other medicinal products by protein binding displacement is expected.

In clinical studies performed with fondaparinux, the concomitant use of warfarin (oral anticoagulant), acetylsalicylic acid (platelet inhibitor, prostanoid non-steroidal anti-inflammatory), and digoxin (cardiac glycoside) did not significantly affect the pharmacokinetics or pharmacodynamics of fondaparinux. In addition fondaparinux neither influenced the INR activity of warfarin, nor the bleeding time under acetylsalicylic acid or prostanoid treatment, or the pharmacokinetics or pharmacodynamics of digoxin at steady state.

Pregnancy and Lactation
Pregnancy
There are limited clinical data available on exposed pregnancies. ARIXTRA should not be prescribed to pregnant women unless the benefit outweighs the risk (see Non-Clinical Indomtor).

Lactation
Fondaparinux is excreted in rat milk but it is not known whether fondaparinux is excreted in human milk. Breast-feeding is not recommended during treatment with ARIXTRA.

Effects on Ability to Drive and Use Machines
No studies on the effect on the ability to drive and to use machines have been performed.

Adverse Reactions
Adverse reactions are listed below by system organ class and frequency and indication. Frequencies are defined as: very common (> 1/10), common (> 1/100, <1/10), uncommon (> 1/1,000, <1/100), rare (> 1/10,000, <1/1,000), very rare (< 1/10,000). These adverse reactions should be interpreted within the surgical or medical context of the indications.

Clinical Trial Data
Indications and Intestations

ARIXTRA is indicated for the treatment of VTE in patients with creatinine clearance of less than 30 ml/min (see Warnings and Precautions).

Blood and lymphatic system disorders
Rare: Allergic reaction.

Immun system disorders
Rare: Hypokalaemia.

Metabolism and nutrition disorders
Rare: Hypokalaemia.

Nervous system disorders
Common: Headache.

Vascular disorders
Rare: Anxiety, confusion, dizziness, somnolence, vertigo.

Respiratory, thoracic and mediastinal disorders
Rare: Dyspnoea, coughing.

Gastrointestinal disorders
Common: Nausea, vomiting.

Uncommon disorders
Abnormal liver function tests, hepatic enzymes increased.

Skin and subcutaneous tissue disorders
Uncommon: Rash, pruritus, urticarial reaction.

General disorders and administration site reactions
Common: Oedema.

Uncommon disorders
Fever.

Rare
Reaction at injection site, chest pain, leg pain, fatigue, flushing, syncope.

Overdose
Symptoms and Signs

ARIXTRA doses above the recommended regimen may lead to an increased risk of bleeding.

Treatment
Overdose associated with bleeding complications should lead to treatment discontinuation and search for the primary cause. Initiation of appropriate therapy which may include surgical haemostasis, blood replacements, fresh plasma transfusion, platepheresis should be considered.

PHARMACOLOGICAL PROPERTIES
Pharmacodynamics
Pharmacotherapeutic group: antithrombotic agents.

ATC Code
SO5AD05

Mechanism of Action
Fondaparinux is a synthetic and selective inhibitor of activated Factor X (aX). The antithrombotic activity of fondaparinux is the result of antithrombin III (ATIII) mediated selective inhibition of Factor Xa. By binding selectively to ATIII, fondaparinux potentiates (about 300 times) the inerte neutralization of Factor Xa by ATIII. Neutralization of Factor Xa interrupts the blood coagulation cascade and inhibits both thrombin formation and thrombus development.

Fondaparinux does not inactivate thrombin (activated Factor II) and has no known effect on plasmin function.

Pharmacodynamic Effects
At the 2.5 mg dose, fondaparinux does not have a clinically relevant effect on routine coagulation tests, such as activated partial thromboplastin time (APTT), activated clotting time (ACT) or prothrombin time (PT)/International Normalized Ratio (INR) tests in plasma, nor bleeding time or fibrinolytic activity. However, rare spontaneous reports of elevated INR have been received at the 2.5mg dose.

Fondaparinux does not cross-react with sera from patients with Heparin Induced Thrombocytopenia (HIT) type II.

Anti-Xa activity
The pharmacodynamics/pharmacokinetics of fondaparinux are derived from fondaparinux plasma concentrations quantified via anti-factor Xa activity. Only fondaparinux can be used to calibrate the anti-Xa assay. The international standards of heparin or low molecular weight heparins (LMWH) are not appropriate for this use. As a result, the concentration of fondaparinux is expressed as milligrams of the fondaparinux calibrator/100L.

Absorption
After subcutaneous dosing, fondaparinux is completely and rapidly absorbed (absolute bioavailability 100%). Following a single subcutaneous injection of ARIXTRA 2.5 mg to young healthy subjects, peak plasma concentration, mean C_{max} of 0.34 mg/L, is reached at approximately 2 hours. Plasma concentrations of a half the mean C_{max} values are reached 25 minly post-dosing.

In elderly healthy subjects, pharmacokinetics of fondaparinux are linear in the range of 2 to 8 mg by subcutaneous route. Following once daily subcutaneous dosing, steady state of plasma levels is obtained after 3 to 4 days with a 1.3-fold increase in C_{max} and AUC. Following a single 1-c bolus administration to healthy elderly subjects, the pharmacokinetics of fondaparinux are linear over the therapeutic range.

In patients undergoing hip replacement surgery receiving ARIXTRA 2.5 mg once daily subcutaneously, the peak steady-state plasma concentration is, on average, 0.39 to 0.50 mg/L and is reached approximately 3 hours post-dose.

In patients with symptomatic deep vein thrombosis and primary embolism undergoing treatment with ARIXTRA 5 mg (body weight less than 50 kg), 7.5 mg (body weight 50 to 100 kg) and 10 mg (body weight greater than 100 kg) subcutaneously once daily, the body-weight-adjusted doses provide similar mean steady-state peaks and minimum plasma concentrations across all body weight categories. The mean peak steady-state plasma concentration is in the range of 1.02 to 1.26 mg/L. In these patients, the mean minimum steady-state plasma concentration is in the range of 0.46 to 0.62 mg/L.

Distribution
In healthy adults, intravenously or subcutaneously administered fondaparinux distributes mainly in blood and only to a minor extent in extravascular fluid, as demonstrated by steady state and non-steady state apparent volume of distribution of 1 to 1 L. In vivo, fondaparinux is highly (at least 94%) and specifically bound to antithrombin III (ATIII) and does not bind significantly to other plasma proteins, including platelet Factor 4 (PF4) or red blood cells.

Metabolism
In vivo metabolism of fondaparinux has not been investigated since the majority of the administered dose is eliminated unchanged in urine in individuals with normal kidney function.

Elimination
Fondaparinux is eliminated in urine mainly as unchanged drug. In healthy individuals, 64 to 77% of a single subcutaneous or intravenous dose is eliminated in urine in 72 hours. The elimination half-life is about 17 hours in healthy young subjects and about 21 hours in healthy elderly subjects. In patients with normal renal function, the mean fondaparinux clearance is 1.82 mL/min.

Special Patient Populations
• Renal impairment
Fondaparinux elimination is prolonged in patients with renal impairment such as the major route of elimination is urinary excretion of unchanged drug. In patients undergoing prophylaxis following elective hip surgery or the fixation of a urinary tract stone, the total clearance of fondaparinux is approximately 25% lower in patients with mild renal impairment (creatinine clearance 50 to 80 ml/min), approximately 40% lower in patients with moderate renal impairment (creatinine clearance 30 to 50 ml/min) and approximately 55% lower in patients with severe renal impairment (creatinine clearance less than 30 ml/min), compared to patients with normal renal function. The associated terminal half-life values were 29 hours in moderate and 72 hours in patients with severe renal impairment. A similar relationship between fondaparinux clearance and extent of renal impairment was observed in DVT treatment patients.

Prevention of VTE
A population pharmacokinetic model was developed using data obtained from patients undergoing major orthopaedic surgery of the lower limbs (MSLL) receiving fondaparinux and included patients with creatinine clearance as low as 23.5 ml/min. Pharmacokinetic simulations using this model showed that predicted average exposures of fondaparinux in patients with creatinine clearance between 20-30 ml/min receiving 2.5 mg on alternate days were similar to those seen in patients with mild to moderate renal impairment (creatinine clearance 30 to 80 ml/min) receiving 2.5 mg once daily (see Dosage and Administration, Warnings and Precautions).

• Hepatic impairment
Unbound concentrations of fondaparinux are expected to be unchanged in patients with mild to moderate hepatic impairment, and therefore, no dose adjustment is necessary based on pharmacokinetics. Following a single, subcutaneous dose of fondaparinux in subjects with moderate hepatic impairment (Child-Pugh Category B), C_{max} and AUC were decreased by 22% and 39%, respectively, as compared to subjects with normal liver function. The lower plasma concentrations of fondaparinux were attributed to reduced binding to ATIII secondary to the lower ATIII plasma concentrations in subjects with hepatic impairment thereby resulting in increased renal clearance of fondaparinux.

• Gender
No gender differences were observed after adjustment for body weight.

• Race
Pharmacokinetic differences due to race have not been studied prospectively. However, studies performed in Asian (Japanese) healthy subjects did not reveal a different pharmacokinetic profile compared to Caucasian healthy subjects. Similarly, based on the results of population pharmacokinetic analysis conducted in patients undergoing orthopaedic surgery, no plasma clearance differences were observed between black and Caucasian patients.

• Body weight
In patients weighing less than 50 kg the total clearance of fondaparinux sodium is decreased by approximately 30% (see Warnings and Precautions).

Clinical Studies
Prevention of versus thromboembolic events (VTE) in patients undergoing major orthopaedic surgery of the lower limbs treated up to 6 days

The clinical program included patients undergoing major orthopaedic surgery of the lower limbs such as hip fracture, major knee or hip replacement surgery. ARIXTRA 2.5 mg once daily started 6 to 8 hours postoperatively was compared with enoxaparin 40 mg once daily started 12 hours before surgery, or 30 mg twice daily started 12 to 24 hours after surgery. Both treatments were administered for 7 to 8 days.

In a pooled analysis of these studies, ARIXTRA was associated with a significant decrease in VTE compared to enoxaparin (6.8% versus 13.7%, respectively), irrespective of the type of surgery performed. The majority of endpoint events consisted mainly of distal DVT, but the incidence of proximal DVT was also significantly reduced. The incidence of symptomatic VTE, including PE, was not significantly different between treatment groups.

In studies versus enoxaparin 40 mg once daily started 12 hours before surgery, major bleeding was observed in 3.3% of ARIXTRA patients treated with the recommended dose, compared to 2.8% with enoxaparin. In patients treated with ARIXTRA according to the recommended regimen 6 hours after surgery, the rate of major bleeding was 2.8%. In studies versus enoxaparin 30 mg twice daily started 12 to 24 hours after surgery, major bleeding was observed in 1.9% of ARIXTRA patients treated with the recommended dose, compared to 1.1% with enoxaparin.

Extended prophylaxis: Prevention of venous thromboembolic events (VTE) in patients undergoing hip fracture surgery treated for up to 24 days following an initial prophylaxis of 1 week

Following treatment with 2.5 mg ARX704 for 1 to 7 days, no fracture surgery patients were randomized to receive ARX704 2.5 mg once daily or placebo for an additional 21 ± 2 days.

Treatment of unstable angina (UA) or non-ST segment elevation myocardial infarction (STEMI) in patients who underwent subsequent PCI with adjunctive UFI

In a study of 3225 high-risk UA/STEMI patients scheduled for angiography and treated with open-label fondaparinux (GAS5) or ARX704, the 2025 patients indicated for PCI were randomized to receive one of two double-blind dose regimens of adjunctive UFI. All enrolled patients received fondaparinux 2.5 mg subcutaneously, once daily for up to 6 days, or until hospital discharge. Randomized patients received either 'low dose' UFI regimen (50 U/ml irrespective of patient GPIIb/IIIa use; non-ACI guided) or 'standard dose' UFI regimen (no GPIIb/IIIa use; 65 U/kg, ACI guided; planned GPIIb/IIIa use; 60 U/kg, ACT guided) immediately prior to the start of the PCI.

The baseline characteristics and duration of fondaparinux treatment were comparable in both UFI groups. The primary outcome was a composite of post-PCI (defined as time of randomization up to 48 hours post-PCI) adjudicated major or minor bleeding, or major vascular access site complications.

In patients undergoing CABG surgery, the incidence of major bleeding at Day 9 was similar on ARX704 and enoxaparin (6.7% and 6.8%, respectively).

In ARX704-treated STEMI patients undergoing non-primary PCI (n=311 (31% procedure)), the incidence of severe haemorrhage at Day 9 was 1.2% on ARX704 and 1.1% on control. In patients for whom primary PCI was chosen as the reperfusion strategy, the incidence of severe haemorrhage at Day 9 was 1.0% on ARX704 and 0.4% on control. In patients who were treated without primary PCI or thrombolytic, the incidence of severe haemorrhage at Day 9 was 1.2% on ARX704 and 1.5% on control.

In patients (n=254) undergoing non-primary PCI, where it was recorded that they received adjunct UFI for anticoagulation during the procedure (238 procedure), the incidence of severe haemorrhage occurring post-PCI was low and similar for ARX704 (2.1%; 5 cases) and control (1.3%; 3 cases) at Day 9.

In ARX704-treated STEMI patients undergoing non-primary PCI (n=311 (31% procedure)), in whom UFI was recommended for anticoagulation during the procedure, one event of guiding catheter thrombus was reported. However, this patient received UFI as treatment for the event of catheter thrombus rather than pre-PCI. Approximately 1% of patients underwent CABG surgery. In these patients the incidence of severe haemorrhage at Day 9 was 6.9% on ARX704 and 17.1% on control.

Use in Paediatric Patients
Safety and effectiveness of ARX704 in paediatric patients have not been established.

In an open-label study, 24 paediatric patients diagnosed with venous thrombosis at study entry (with the exception of one patient who had an arterial thrombosis) were administered ARX704. No patient had hepatic induced thrombocytopenia (HIT) although one patient had a medical history of HIT following extracorporeal circulation membrane oxygenation. The majority of patients were Hispanic (67%) and 58% were male. Ten patients were 1 to <5 years of age (weight range 6 to 20 kg), 7 patients were 6 to ≤12 years of age (weight range 17 to 47 kg), and 7 patients were 13 to ≥18 years of age (weight range 47 to 153 kg). ARX704 was administered at an initial dose of 0.1 mg/kg subcutaneously once daily. Dosing was adjusted to achieve peak fondaparinux sodium concentrations (0.5 to 1 mg/ml). One patient received concomitant warfarin and ARX704 for 3 days during the study. The median duration of treatment in this study was 3.5 days.

The purpose of this study was to evaluate the pharmacokinetics and safety of ARX704 in a paediatric population. The majority of patients (88%) achieved target fondaparinux concentrations after the first dose of fondaparinux. Pharmacokinetic modeling and simulation demonstrated that the 0.1 mg/kg once daily dose resulted in fondaparinux concentrations that were similar to those observed in adults receiving ARX704 for the treatment of DVT or PE. There were no apparent differences in achieving the target fondaparinux concentration range among age groups.

Two patients had reports of bleeding during the study. One experienced hypertensive encephalopathy accompanied by intracranial bleeding on day 5 of therapy resulting in discontinuation of ARX704. Minor gastrointestinal bleeding was reported in another patient on day 5 of therapy which resulted in temporary discontinuation of ARX704.

Pre-clinical Safety Data
No long-term studies in animals have been performed to evaluate the carcinogenic potential of fondaparinux sodium. Fondaparinux sodium was not genotoxic in the Ames test, the mouse lymphoma cell L5178Y/TK+/- forward mutation test, the human lymphocyte chromosome aberration test, the rat hepatocyte unscheduled DNA synthesis (UDS) test, or the rat micronucleus test.

Reproduction studies have been performed in rats and rabbits at subcutaneous doses up to 10 mg/kg/day (approximately 5 and 12 times human exposure at a dose of 2.5 mg, or 2 and 4 times human exposure at a dose of 7.5 mg, based on AUC) and have revealed no evidence of impaired fertility or harm to the foetus due to fondaparinux sodium. Because animal reproduction studies are not always predictive of human response, ARX704 should not be prescribed to pregnant women unless the risk of VTE outweighs the potential risk to the foetus.

PHARMACEUTICAL PARTICULARS
Wulfin for Injection
Sodium chloride
Hydrochloric acid or sodium hydroxide for pH adjustment as necessary.

Stability
The expiry date in the absence of compatibility studies, ARX704 must not be mixed with other medicinal products.

Shelf-Life
If ARX704 is added to a 0.9% saline mimbag® it should ideally be infused immediately, but can be stored at room temperature for up to 24 hours.

Special Precautions for Storage
Do not freeze.

5. Remove the needle shield, by first twisting it (picture B1) and then pulling it in a straight line away from the body of the syringe (picture B2).

Discard the needle shield.

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7. Hold the syringe firmly by the finger grip. Insert the full length of the needle at right angles into the skin fold (picture D).

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In patients who were treated without primary PCI or thrombolytic, ARX704 reduced the risk of death and re-MI at Day 30. Of the patients treated with ARX704 or control, 12.1% and 15.0% respectively experienced an event by

Day 30 (hazard ratio 0.79, 95% CI, 0.65, 0.97, p = 0.023). The efficacy findings were consistent across demographic subgroups, including elderly and renally impaired patients, and across the range of concomitant medications.

Treatment with ARX704 was not associated with an increased risk of bleeding in the overall population or in demographic subgroups, including the elderly and renally impaired, and when used concomitantly with aspirin and thienopyridines. Overall, 1.1% of patients treated with ARX704 and 1.4% of control patients experienced a severe haemorrhage, defined according to modified thrombolysis in myocardial infarction criteria (TIMI), by Day 9.

In patients for whom a thrombolytic was chosen as the reperfusion strategy, the incidence of severe haemorrhage at Day 9 was 1.3% on ARX704 and 2.0% on control. In patients for whom primary PCI was chosen as the reperfusion strategy, the incidence of severe haemorrhage at Day 9 was 1.0% on ARX704 and 0.4% on control. In patients who were treated without primary PCI or thrombolytic, the incidence of severe haemorrhage at Day 9 was 1.2% on ARX704 and 1.5% on control.

In patients (n=254) undergoing non-primary PCI, where it was recorded that they received adjunct UFI for anticoagulation during the procedure (238 procedure), the incidence of severe haemorrhage occurring post-PCI was low and similar for ARX704 (2.1%; 5 cases) and control (1.3%; 3 cases) at Day 9.

In ARX704-treated STEMI patients undergoing non-primary PCI (n=311 (31% procedure)), in whom UFI was recommended for anticoagulation during the procedure, one event of guiding catheter thrombus was reported. However, this patient received UFI as treatment for the event of catheter thrombus rather than pre-PCI. Approximately 1% of patients underwent CABG surgery. In these patients the incidence of severe haemorrhage at Day 9 was 6.9% on ARX704 and 17.1% on control.

Use in Paediatric Patients
Safety and effectiveness of ARX704 in paediatric patients have not been established.

In an open-label study, 24 paediatric patients diagnosed with venous thrombosis at study entry (with the exception of one patient who had an arterial thrombosis) were administered ARX704. No patient had hepatic induced thrombocytopenia (HIT) although one patient had a medical history of HIT following extracorporeal circulation membrane oxygenation. The majority of patients were Hispanic (67%) and 58% were male. Ten patients were 1 to <5 years of age (weight range 6 to 20 kg), 7 patients were 6 to ≤12 years of age (weight range 17 to 47 kg), and 7 patients were 13 to ≥18 years of age (weight range 47 to 153 kg). ARX704 was administered at an initial dose of 0.1 mg/kg subcutaneously once daily. Dosing was adjusted to achieve peak fondaparinux sodium concentrations (0.5 to 1 mg/ml). One patient received concomitant warfarin and ARX704 for 3 days during the study. The median duration of treatment in this study was 3.5 days.

The purpose of this study was to evaluate the pharmacokinetics and safety of ARX704 in a paediatric population. The majority of patients (88%) achieved target fondaparinux concentrations after the first dose of fondaparinux. Pharmacokinetic modeling and simulation demonstrated that the 0.1 mg/kg once daily dose resulted in fondaparinux concentrations that were similar to those observed in adults receiving ARX704 for the treatment of DVT or PE. There were no apparent differences in achieving the target fondaparinux concentration range among age groups.

Two patients had reports of bleeding during the study. One experienced hypertensive encephalopathy accompanied by intracranial bleeding on day 5 of therapy resulting in discontinuation of ARX704. Minor gastrointestinal bleeding was reported in another patient on day 5 of therapy which resulted in temporary discontinuation of ARX704.

Pre-clinical Safety Data
No long-term studies in animals have been performed to evaluate the carcinogenic potential of fondaparinux sodium. Fondaparinux sodium was not genotoxic in the Ames test, the mouse lymphoma cell L5178Y/TK+/- forward mutation test, the human lymphocyte chromosome aberration test, the rat hepatocyte unscheduled DNA synthesis (UDS) test, or the rat micronucleus test.

Reproduction studies have been performed in rats and rabbits at subcutaneous doses up to 10 mg/kg/day (approximately 5 and 12 times human exposure at a dose of 2.5 mg, or 2 and 4 times human exposure at a dose of 7.5 mg, based on AUC) and have revealed no evidence of impaired fertility or harm to the foetus due to fondaparinux sodium. Because animal reproduction studies are not always predictive of human response, ARX704 should not be prescribed to pregnant women unless the risk of VTE outweighs the potential risk to the foetus.

PHARMACEUTICAL PARTICULARS
Wulfin for Injection
Sodium chloride
Hydrochloric acid or sodium hydroxide for pH adjustment as necessary.

Stability
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