Drug class[1]

Anticoagulant

Pharmacology

Enoxaparin has several actions on the coagulation pathway through its binding to antithrombin III. The antithrombotic activity is related to inhibition of thrombin generation and inhibition of two key coagulation factors: factor Xa and thrombin.[1]

Metabolism

Hepatic but mostly eliminated unchanged.[1]

• Patients with STEMI (as defined by the relevant QAS coronary artery reperfusion checklist) who have received QAS tenecteplase (as an adjunct medication to aspirin and clopidogrel)[2-3]



- Allergy AND/OR Adverse Drug Reaction
- Patients contraindicated for pre-hospital fibrinolysis administration



- Renal/hepatic impairment
- Low bodyweight (women < 45 kg and men < 57 kg)
- Older people



- Haemorrhage
- Thrombocytopenia

- Injection (pre-filled syringe with graduated markings), 60 mg/o.6 mL enoxaparin sodium
- Injection (pre-filled syringe with graduated markings), 100 mg/1 mL enoxaparin sodium

Onset (IV)	Duration (IV)	Half-life
Immediate (peak 3 hours)	12–24 hours	4.4 hours for 40 mg dose

Schedule

• S4 (Restricted drugs).

Subcutaneous injection (SUBCUT)



Intravenous injection (IV)



- Ambulance officers must only administer medications for the listed indications and dosing range. Any consideration for treatment outside the listed scope of practice requires mandatory approval via the QAS Clinical Consultation and Advice Line.
- For all IV administrations an enoxaparin 60 mg/o.6 mL graduated pre-filled syringe must be used. The volume to be injected (30 mg/0.3 mL) should be measured precisely using the markings on the syringe. The air bubble **MUST NOT** be administered with the medication.
- For all SUBCUT administrations an enoxaparin 100 mg/1 mL graduated pre-filled syringe must be used. The volume to be injected (1 mg/kg) should be measured precisely using the markings on the syringe. When adjusting to the correct dose, hold the syringe with the needle tip pointing down. Depress the plunger so the bottom of the air bubble is level with the marking on the syringe that corresponds to the dose required. The air bubble is required to be administered with the medication.

Adult dosages[1-3]

Patients with STEMI (as defined by the relevant QAS coronary artery reperfusion checklist) who have received **QAS tenecteplase** (as an adjunct medication to aspiring and clopidogrel)





Loading dose - 30 mg

To be administered 15 minutes prior to SUBCUT maintenance dose (listed below).

SUBCUT

Maintenance dose - 1 mg/kg Single dose only, not to exceed 100 mg.

To be administered 15 minutes following IV enoxaparin loading dose (listed above).

Paediatric dosages

QAS officers are **NOT** authorised to administer enoxaparin to paediatric patients.

Priming of the Microbore Extension Set

- Remove the Microbore Extension Set from the packaging.
- Clean the blue male luer-lock valve with an appropriate antimicrobial swab.
- Insert a 10 mL Luer-Lok™ syringe containing 10 mL sodium chloride 0.9% into the needleless valve and rotate clockwise to secure the connection.
- Gently prime the tubing until fluid drips from the patient connection port. Priming slowly helps minimise turbulence that can cause air bubbles to form.

- Disconnect the syringe's luer by securely holding the valve while turning the syringe counter-clockwise.
- Inspect the Microbore Extension Set, including valves and Y-injection port, to ensure no air bubbles are visible. If air bubbles are present, repeat the priming procedure until all air bubbles are dislodged and have been released from the tubing.
- Remove the Microbore Extension Set's patient connection port cap.
- Connect the Microbore Extension Set to the SmartSite™ valve on the patient's cannula.
- Administer medications AND/OR fluids as required.

JEN PRINTE

Tubing is primed Fluid drips from the patient connection port

Clexane® Pre-filled Safety Lock Syringe Instructions For Use

Clexane® (enoxaparin) pre-filled syringes are now supplied with safety lock. Clexane® Safety Lock is a safety syringe with an inbuilt safety device that completely shields the needle after use. This page provides instructions on the use of the Clexane® Safety Lock Syringe for intravenous (IV) loading dose and subcutaneous (SUBCUT) maintenance dose injections.

Undeployed Deployed

Instructions of IV injection (loading dose)

- 1. Apply required infection control measures (refer to the *QAS Infection Control Framework*).
- Remove the safety cap from a 60 mg/o.6 mL graduated pre-filled safety lock syringe.
- 3. While holding upright, expel the air bubble and the unrequired enoxaparin, leaving only the required loading dose in the syringe (0.3 mL).
- 4. Inject the required dose of enoxaparin via the cleaned Y-injection port on the patient's Microbore Extension Set.



- 5. After injecting, withdraw the syringe and needle straight out, keeping your thumb on the plunger.
 - 6. Face the needle away from the patient and others and activate the safety lock by firmly pressing the plunger.

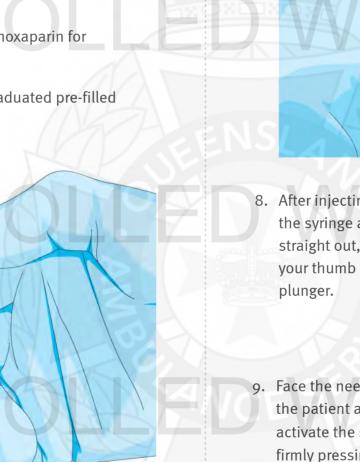
- 7. Dispose of the syringe into a sharps container.
- 8. Flush the Microbore male luer-lock with sodium chloride 0.9%.

Clexane® Pre-filled Safety Lock Syringe Instructions For Use

Instructions for SUBCUT injection (maintenance dose)

- 1. Apply required infection control measures (refer to the QAS Infection Control Framework).
- 2. Posture the patient in a comfortable position (supine or semi-reclined).
- 3. Identify and clean a suitable insertion site with a 2% Chlorhexidine/ 70% Isopropyl Alcohol antiseptic swab.
- Calculate the required maintenance dose of enoxaparin for the patient (1 mg/kg not to exceed 100 mg).
- 5. Remove the safety cap from a 100 mg/1 mL graduated pre-filled safety lock syringe.

6. Hold the syringe with the needle tip pointing down. Depress the plunger so the bottom of the air bubble is level with the marking on the syringe that corresponds to the dose required. The air bubble is required to be administered with the medication.



7. Inject the enoxaparin using the standard subcutaneous injection technique. 8. After injecting, withdraw the syringe and needle straight out, keeping your thumb on the 9. Face the needle away from the patient and others and activate the safety lock by firmly pressing the plunger. Bottom of air bubble level with required dosage marking 10. Dispose of the syringe into