PACKAGE LEAFLET: **INFORMATION FOR THE USER**

Clexane[®] 60mg/0.6ml Syringes (enoxaparin sodium)

Read all of this leaflet carefully before you start using this medicine

- Keep this leaflet. You may need to read it again
- If you have any further questions, ask your doctor or pharmacist
- This medicine has been prescribed for you. Do not pass it on to others. It may harm them, even if their symptoms are the same as yours
- If any of the side effects get serious, or if ٠ you notice any side effects not listed in this leaflet, please tell your doctor or pharmacist

Please note that the leaflet also contains information about other strengths, Clexane 20mg, 40mg, 80mg and 100mg Syringes.

In this leaflet:

- 1. What Clexane is and what it is used for
- 2. Before you use Clexane
- 3. How to use Clexane
- 4. Possible side effects
- 5. How to store Clexane
- 6. Further information

1. What Clexane is and what it is used for

The name of your medicine is Clexane 60mg/0.6ml Syringes but it will be referred as Clexane throughout this leaflet. Clexane contains a medicine called enoxaparin sodium. This belongs to a group of medicines called Low Molecular Weight Heparins.

Clexane works in two ways.

- 1) Stopping existing blood clots from getting any bigger. This helps your body to break them down and stop them causing you harm
- 2) Stopping blood clots forming in your blood.

Clexane can be used to:

- Treat blood clots that are in your blood Stop blood clots forming in your blood in the following situations:
 - Unstable angina (where not enough blood gets to your heart)
 - After an operation or long periods of bed rest due to illness
 - After you have had a heart attack
- Stop blood clots forming in the tubes of your dialysis machine (used for people with kidney problems)

2. Before you use Clexane

Do not have this medicine and tell your doctor, pharmacist or nurse if:

You are allergic (hypersensitive) to х enoxaparin sodium or any of the other ingredients of Clexane (listed in Section 6: 'Further information') Signs of an allergic reaction include: a rash, swallowing or breathing problems, swelling of

your lips, face, throat or tongue You are allergic to heparin or other Low

- х Molecular Weight Heparins such as tinzaparin or dalteparin
- You have a problem with bruising or × bleeding too easily
- You have an ulcer in your stomach or gut (intestine)
- You have had a stroke caused by bleeding in the brain
- You have an infection in your heart х
- You are using the medicine called heparin to treat blood clots

Do not have this medicine if any of the above apply to you. If you are not sure, talk to your doctor, pharmacist or nurse before having Clexane.

Take special care with Clexane

Check with your doctor or pharmacist or nurse before using this medicine if:

- ▲ You have high blood pressure
- ▲ You have kidney problems
- You have had a heart valve fitted
- ▲ You have ever had bruising and bleeding caused by the medicine 'heparin'
- You have ever had a stroke
- ▲ You have ever had a stomach ulcer
- You have recently had an operation on your eyes or brain
- You are a diabetic or have an illness known as 'diabetic retinopathy' (problems with the blood vessels in the eye caused by diabetes)
- ▲ You have any problems with your blood
- ▲ You are underweight or overweight
- ▲ You are elderly (over 65 years old) and

especially if you are aged over 75 years old If you are not sure if any of the above applies to you, talk to your doctor or pharmacist or nurse before using Clexane.

Taking or using other medicines

Please tell your doctor, pharmacist or nurse if you are taking or have recently taken any other medicines. This includes medicines you buy without a prescription, including herbal medicines. This is because Clexane can affect the way some other medicines work. Also some medicines can affect the way Clexane works.

In particular, do not have this medicine and tell your doctor if:

- × You are using the medicine called heparin to treat blood clots Tell your doctor if you are taking any of the following medicines:
- Warfarin used for thinning the blood
- Aspirin, dipyridamole, clopidogrel or other medicines - used to stop blood clots forming

THE FOLLOWING INFORMATION IS INTENDED FOR HEALTHCARE PROFESSIONALS ONLY Clexane[®] 60mg0.6/ml Syringes (enoxaparin sodium) The following information is extracted from the SPC

Technical information for the administration of Clexane Syringes

1 NAME OF THE MEDICINAL PRODUCT

Clexane[®] 60mg/0.6ml Syringes

2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Pre-filled syringes:

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60mg Injection Enoxaparin sodium 60mg (equivalent to 6,000IU anti-Xa activity) in 0.6ml Water for Injections

For full list of excipients, see section 6.1 **3 PHARMACEUTICAL FORM**

Solution for injection.

Clear, colourless to pale yellow solution.

4.2 Posology and method of administration

Adults:

Prophylaxis of venous thromboembolism:

In patients with a low to moderate risk of venous thromboembolism the recommended dosage is 20mg (2,000IU) once daily by subcutaneous injection for 7 to 10 days, or until the risk of thromboembolism has diminished. In patients undergoing surgery, the initial dose should be given approximately 2 hours pre-operatively. In patients with a higher risk, such as in orthopaedic surgery, the dosage should be 40mg (4,000IU) daily by subcutaneous injection with the initial dose administered approximately 12 hours before surgery.

In patients with a high-risk of venous thromboembolism who undergo abdominal or pelvic surgery for cancer and are not otherwise at risk for major bleeding complications, the recommended dosage is 40mg (4,000IU) once daily by subcutaneous injection for 4 weeks with the initial dose administered approximately 12 hours before surgery.

Prophylaxis of venous thromboembolism in medical patients:

Dosage chart for 1.5mg/kg SC treatment of DVT, PE or both						
Patient Kg Syringe label Dose (mg) Injectio weight						
	70	120mg / 0.8ml	105 od	0.70		
150mg/ml	75	120mg / 0.8ml	112.5 od	0.76		
Solution for Injection	80	120mg / 0.8ml	120 od	0.80		
CLEXANE Forte	85	150mg / 1ml	127.5 od	0.86		
syringes	90	150mg / 1ml	135 od	0.90		
	95	150mg / 1ml	142.5 od	0.96		
	100	150mg/ 1ml	150 od	1.00		

Please be aware that in some cases it is not possible to achieve an exact dose due to the graduations on the syringe and so some of the volumes recommended in this table have been rounded up to the nearest graduation.

<u>Treatment of unstable angina and non-Q-wave myocardial infarction</u> The recommended dose is 1mg/kg Clexane every 12 hours by subcutaneous injection, administered concurrently with oral aspirin (100 to 325mg once daily). Treatment with Clexane in these patients should be prescribed for a minimum of 2 days and continued until clinical stabilisation. The usual duration of treatment is 2 to 8 days.

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The recommended dose of enoxaparin sodium is 40mg (4.000 IU) once daily by subcutaneous injection. Treatment with enoxaparin sodium is prescribed for a minimum of 6 days and continued until the return to full ambulation, for a maximum of 14 days.

Treatment of venous thromboembolism:

Clexane should be administered subcutaneously as a single daily injection of 1.5mg/kg (150IU/kg). Clexane treatment is usually prescribed for at least 5 days and until adequate oral anticoagulation is established.

Dosage	Dosage chart for 1.5mg/kg SC treatment of DVT, PE or both						
Patient weight	Kg	Syringe label	Dose (mg)	Injection volume (ml)			
	40	60mg / 0.6ml	60 od	0.60			
100mg/ml	45	80mg / 0.8ml	67.5 od	0.675			
Solution for Injection	50	80mg / 0.8ml	75 od	0.75			
CLEXANE	55	100mg / 1ml	82.5 od	0.825			
eygee	60	100mg / 1ml	90 od	0.90			
	65	100mg / 1ml	97.5 od	0.975			

Patient weight	Kg	Syringe label	Dose (mg)	Injection volume (ml)
	40	40mg / 0.4ml	40 bd	0.40
	45	60mg / 0.6ml	45 bd	0.45
	50	60mg / 0.6ml	50 bd	0.50
	55	60mg / 0.6ml	55 bd	0.55
	60	60mg / 0.6ml	60 bd	0.60
100mg/ml Solution for	65	80mg / 0.8ml	65 bd	0.65
Injection	70	80mg / 0.8ml	70 bd	0.70
syringes	75	80mg / 0.8ml	75 bd	0.75
	80	80mg / 0.8ml	80 bd	0.80
	85	100mg / 1ml	85 bd	0.85
	90	100mg / 1ml	90 bd	0.90
	95	100mg / 1ml	95 bd	0.95
	100	100mg / 1ml	100 bd	1.00

- Dextran injection used as a blood replacer
- Ibuprofen, diclofenac, ketorolac or other medicines - used to treat pain and swelling in arthritis and other illnesses
- Prednisolone, dexamethasone or other medicines - used to treat asthma, rheumatoid arthritis and other conditions
- Water tablets (diuretics) such as spironolactone, triamterene or amiloride. These may increase the levels of potassium in your blood when taken with Clexane

Your doctor may change one of your medicines or take regular blood tests to check that taking these medicines with Clexane is not causing you any harm.

Operations and anaesthetics

If you are going to have a spinal puncture or an operation where an epidural or spinal anaesthetic is used, tell your doctor that you are using Clexane. Tell also your doctor if you have any problem with your spine or if you have ever had spinal surgery.

Pregnancy and breast-feeding

Talk to your doctor before you use this medicine if you are pregnant, might become pregnant, or think you may be pregnant.

You should not use this medicine if you are pregnant and have a mechanical heart valve as you may be at increased risk of developing blood clots. Your doctor should discuss this with you.

You should not breast-feed whilst using Clexane. If you are planning to breast-feed, talk to your doctor, pharmacist or nurse.

Ask your doctor or pharmacist for advice before taking any medicine if you are pregnant or breast-feeding.

3. How to use Clexane

Having this medicine

- Before you use Clexane your doctor or nurse may carry out a blood test
- While you are in hospital your doctor or nurse will normally give you Clexane. This is because it needs to be given as an injection

- When you go home you may need to continue to use Clexane and give it to yourself (see below instructions on how to do this)
- Clexane is usually given by injection • underneath the skin (subcutaneous)
- Do not inject Clexane into a muscle (intramuscular)

If you are not sure why you are receiving Clexane or have any questions about how much Clexane is being given to you, speak to your doctor, pharmacist or nurse.

How much will be given to you

- Your doctor will decide how much to give you. The amount of Clexane given to you will depend on the reason it is being used
- If you have problems with your kidneys, you may be given a smaller amount of Clexane
- 1) Treating blood clots that are in your blood
- The usual dose is 1.5mg for every kilogram of your weight, each day
- Clexane will usually be given for at least 5 davs
- 2) Stopping blood clots forming in your blood in the following situations: a) Unstable angina
- The usual amount is 1mg for every kilogram of weight, every 12 hours
- Clexane will usually be given for 2 to 8 days. Your doctor will normally ask you to take aspirin as well
- b) After an operation or long periods of bedrest due to illness

The usual dose is 20mg or 40mg each day. The dose will depend on how likely you are to develop a clot

- If you have a low to medium risk of getting a • clot, you will be given 20mg of Clexane each day for 7 to 10 days. If you are going to have an operation, your first injection will usually be given 2 hours before your operation
- If you have a higher risk of getting a clot, you will be given 40mg each day for 7 to 28 days. If you are going to have an operation, your first injection will usually be given 12 hours before your operation

• If you are bedridden due to illness, you will be normally be given 40mg of Clexane each day for 6 to 14 days

c) After you have had a heart attack

Clexane can be used for two different types of heart attack called NSTEMI or STEMI. The amount of Clexane given to you will depend on your age and the kind of heart attack you have had.

i) NSTEMI type of heart attack

- The usual amount is 1mg for every kilogram of weight, every 12 hours
- Clexane will usually be given for 2 to 8 days. Your doctor will normally ask you to take aspirin as well

ii) STEMI type of heart attack

If you are under 75 years old

- 30mg of Clexane will be given as an injection into your vein (intravenous injection using Clexane Multidose Vial or 60, 80 or 100mg Pre-filled syringes)
- At the same time, you will also be given Clexane as an injection under your skin (subcutaneous injection). The usual dose is 1mg for every kilogram of your weight.
- Then you will be given 1mg for every kilogram of your weight every 12 hours
- The maximum amount of Clexane given for the first two injections is 100mg
- The injections will normally be given for up to 8 days

If you are aged 75 years or older

- Your doctor or nurse will give you injections of Clexane under your skin (subcutaneous injection)
- The usual dose is 0.75mg for every kilogram of your weight, every 12 hours
- The maximum amount of Clexane given for the first two injections is 75mg

For patients having an operation called Percutaneous Coronary Intervention (PCI)

Depending on when you were last given • Clexane, your doctor may decide to give an additional dose of Clexane before a PCI operation. This is by injection into your vein (intravenous using Clexane Multidose Vial or 60, 80 or 100mg Pre-filled syringes)

Dosage chart for 1mg/kg SC treatment of UA or NSTEMI						
Patient weight	Kg	Syringe label	Dose (mg)	Injection volume (ml)		
	105	120mg / 0.8ml	105 bd	0.70		
	110	120mg / 0.8ml	110 bd	0.74		
	115	120mg / 0.8ml	115 bd	0.78		
150mg/ml Solution for Injection	120	120mg / 0.8ml	120 bd	0.80		
CLEXANE	125	150mg / 1ml	125 bd	0.84		
Forte syringes	130	150mg / 1ml	130 bd	0.88		
	135	150mg / 1ml	135 bd	0.90		
	140	150mg / 1ml	140 bd	0.94		
	145	150mg / 1ml	145 bd	0.98		
	150	150mg / 1ml	150 bd	1.00		

Please be aware that in some cases it is not possible to achieve an exact dose due to the graduations on the syringe and so some of the volumes recommended in this table have been rounded up to the nearest graduation.

Treatment of acute ST-segment Elevation Myocardial Infarction

The recommended dose of enoxaparin sodium is a single IV bolus of 30mg plus a 1mg/kg SC dose followed by 1mg/kg administered SC every 12 hours (max 100mg for the first two doses only, followed by 1mg/kg dosing for the remaining doses). For dosage in patients ≥75 years of age, see section 4.2 'Posology and method of administration: Elderly'.

Dosage chart for 1mg/kg SC treatment of STEMI							
Patient weight	Kg	Syringe label	Dose (mg)	Injection volume (ml)			
	105	120mg / 0.8ml (1)	105 bd (1)	0.70 (1)			
	110	120mg / 0.8ml (1)	110 bd (1)	0.74 (1)			
	115	120mg / 0.8ml (1)	115 bd (1)	0.78 (1)			
150mg/ml Solution for	120	120mg / 0.8ml (1)	120 bd (1)	0.80 (1)			
Injection CLEXANE	125	150mg / 1ml (1)	125 bd (1)	0.84 (1)			
Forte syringes	130	150mg / 1ml (1)	130 bd (1)	0.88 (1)			
-,	135	150mg / 1ml (1)	135 bd (1)	0.90 (1)			
	140	150mg / 1ml (1)	140 bd (1)	0.94 (1)			
	145	150mg / 1ml (1)	145 bd (1)	0.98 (1)			
	150	150mg / 1ml (1)	150 bd (1)	1.00 (1)			

(1) Not to be given for the first two doses - (maximum 100mg for the first two doses only, followed by 1mg/kg dosing for the remaining doses) Please be aware that in some cases it is not possible to achieve an exact dose due to the graduations

on the syringe and so some of the volumes recommended in this table have been rounded up to the nearest graduation.

	Dosage chart for 1mg/kg SC treatment of STEMI						
Patient weight	Kg	Syringe label	Dose (mg)	Injection volume (ml)			
	40	40mg / 0.4ml	40 bd	0.40			
	45	60mg / 0.6ml	45 bd	0.45			
	50	60mg / 0.6ml	50 bd	0.50			
	55	60mg / 0.6ml	55 bd	0.55			
100mg/ml Solution for	60	60mg / 0.6ml	60 bd	0.60			
Injection	65	80mg / 0.8ml	65 bd	0.65			
syringes	70	80mg / 0.8ml	70 bd	0.70			
	75	80mg / 0.8ml	75 bd	0.75			
	80	80mg / 0.8ml	80 bd	0.80			
	85	100mg / 1ml	85 bd	0.85			
	90	100mg / 1ml	90 bd	0.90			
	95	100mg / 1ml	95 bd	0.95			
	100	100mg / 1ml	100 bd	1.00			

When administered in conjunction with a thrombolytic (fibrin specific or non-fibrin specific) enoxaparin sodium should be given between 15 minutes before and 30 minutes after the start of fibrinolytic therapy. All patients should receive acetylsalicylic acid (ASA) as soon as they are identified as having STEMI and maintained under (75 to 325mg once daily) unless contraindicated.

The recommended duration of enoxaparin sodium treatment is 8 days or until hospital discharge, whichever comes first.

For patients managed with Percutaneous Coronary Intervention (PCI): If the last enoxaparin sodium SC administration was given less than 8 hours before balloon inflation, no additional dosing is needed. If the last SC administration was given more than 8 hours before balloon inflation, an IV bolus of 0.3mg/kg of enoxaparin sodium should be administered.

<u>Prevention of extracorporeal thrombus formation during haemodialysis:</u> A dose equivalent to 1 mg/kg (100 IU/kg) introduced into the arterial line at the beginning of a dialysis session is usually sufficient for a 4 hour session. If fibrin rings are found, such as after a longer than normal session, a further dose of 0.5 to 1mg/kg (50 to 100 IU/kg) may be given. For patients at a high risk of haemorrhage the dose should be reduced to 0.5 mg/kg (50 IU/kg) for double vascular access or 0.75 mg/kg (75 IU/kg) for single vascular access.

<u>Elderly:</u> For treatment of acute ST-segment Elevation Myocardial Infarction in elderly patients ≥75 years of age, do not use an initial IV bolus. Initiate dosing with 0.75mg/kg SC every 12 hours (maximum 75mg for the first two doses only, followed by 0.75mg/kg dosing for the remaining doses)

For other indications, no dosage adjustments are necessary in the elderly, unless kidney function is impaired (see also section 4.2 'Posology and method of administration: *Renal impairment*,' section 4.4 Special warnings and precautions for use: Haemorrhage in the elderly; Renal impairment, and Monitoring', section 5.2 'Pharmacokinetic properties').

- 3) Stopping blood clots forming in the tubes of your dialysis machine
- The usual dose is 1mg for every kilogram of your weight
- Clexane is added to the tube leaving the body (arterial line) at the start of the dialysis session
- This amount is usually enough for a 4 hour session. However, your doctor may give you a further dose of 0.5 to 1mg for every kilogram of your weight if necessary

How to give yourself an injection of Clexane

If you are able to give Clexane to yourself, your doctor or nurse will show you how to do this. Do not try to inject yourself if you have not been trained how to do so. If you are not sure what to do, talk to your doctor or nurse immediately.

Before injecting yourself with Clexane

- Check the expiry date on the medicine. Do not use if the date has passed
- Check the syringe is not damaged and the medicine in it is a clear solution. If not, use another syringe
- Make sure you know how much you are going to inject
- Check your abdomen to see if the last injection caused any redness, change in skin colour, swelling, oozing or is still painful, if so talk to your doctor or nurse
- Decide where you are going to inject the medicine. Change the place where you inject each time from the right to the left side of your stomach. Clexane should be injected just under the skin on your stomach, but not too near the belly button or any scar tissue (at least 5 cm away from these)

Instructions on injecting yourself with **Clexane:**

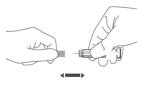
1) Wash your hands and the area that you will inject with soap and water. Dry them.



2) Sit or lie in a comfortable position so you are relaxed. Make sure you can see the place you are going to inject. A lounge chair, recliner,

or bed propped up with pillows is ideal.

- 3) Choose an area on the right or left side of your stomach. This should be at least 5 centimetres away from your belly button and out towards your sides. Remember: Do not inject yourself within 5 centimetres of your belly button or around existing scars or bruises. Change the place where you inject between the left and right sides of your stomach, depending on the area you were last injected.
- 4) Carefully pull off the needle cap from the Clexane syringe. Throw away the cap. The syringe is pre-filled and ready to use.



Do not press on the plunger before injecting yourself to get rid of air bubbles. This can lead to a loss of the medicine. Once you have removed the cap, do not allow the needle to touch anything. This is to make sure the needle stays clean (sterile).

5) Hold the syringe in the hand you write with (like a pencil) and with your other hand, gently pinch the cleaned area of your abdomen between your forefinger and thumb to make a fold in the skin



Make sure you hold the skin fold throughout the injection.

- 6) Hold the syringe so that the needle is pointing downwards (vertically at a 90° angle). Insert the full length of the needle into the skin fold.
- 7) Press down on the plunger with your thumb. This will send the medication into the fatty tissue of the stomach. Make sure you hold the skin fold throughout the injection.



- Remove the needle by pulling it straight out. You can now let go of the skin fold. To avoid bruising, do not rub the injection site after you have injected yourself.
- 9) Drop the used syringe into the sharps bin provided. Close the container lid tightly and place the container out of reach of children.

When the container is full, give it to your doctor or home care nurse for disposal. Do not put it in the household rubbish.

If you have too much or too little Clexane If you think that you have used too much or too little Clexane, tell your doctor, nurse or pharmacist immediately, even if you have no signs of a problem. If a child accidentally injects or swallows Clexane, take them to a hospital casualty department straight away.

If you forget to use Clexane

If you forget to give yourself a dose, have it as soon as you remember. Do not give yourself a double dose on the same day to make up for a forgotten dose. Keeping a diary will help to make sure you do not miss a dose

If you stop using Clexane

It is important for you to keep having Clexane injections until your doctor decides to stop them. If you stop, you could get a blood clot which can be very dangerous.

Blood Tests

Using Clexane may affect the results of some blood tests. If you are going to have a blood test, it is important to tell your doctor you are having Clexane.

Dosage chart f	Dosage chart for 0.75mg/kg SC treatment of STEMI (elderly patients aged ≥75 years					
Patient weight	Kg	Syringe label	0.75mg/kg Dose (mg)	Adjusted dosing (mg)	Injection volume (ml)	
	40	60mg / 0.6ml	30 bd	30 bd	0.30	
	45	60mg / 0.6ml	33.75 bd	35 bd	0.35	
	50	60mg / 0.6ml	37.5 bd	37.5 bd	0.375	
	55	60mg / 0.6ml	41.25 bd	42.5 bd	0.425	
	60	60mg / 0.6ml	45 bd	45 bd	0.45	
	65	60mg / 0.6ml	48.75 bd	50 bd	0.5	
	70	60mg / 0.6ml	52.5 bd	52.5 bd	0.525	
	75	60mg / 0.6ml	56.25 bd	57.5 bd	0.575	
100mg/ml Solution for	80	60mg / 0.6ml	60 bd	60 bd	0.60	
Injection CLEXANE	85	80mg / 0.8ml	63.75 bd	65 bd	0.65	
syringes	90	80mg / 0.8ml	67.5 bd	67.5 bd	0.675	
	95	80mg / 0.8ml	71.25 bd	72.5 bd	0.725	
	100	80mg / 0.8ml	75 bd	75 bd	0.75	
	105	80mg / 0.8ml	78.75 bd (1)	80 bd (1)	0.80 (1)	
	110	100mg / 1ml	82.5 bd (1)	82.5 bd (1)	0.825 (1)	
	115	100mg / 1ml	86.25 bd (1)	87.5 bd (1)	0.875 (1)	

Dosage adjustments for the rapeutic dosage range

Dosage adjustments for therapeutic dosage range						
Standard dosing	Severe renal impairment					
1mg/kg SC twice daily	1mg/kg SC once daily					
1.5mg/kg SC once daily	1mg/kg SC once daily					
For treatment of acute STEMI in patier	nts <75 years of age					
30mg-single IV bolus plus a 1mg/kg SC dose followed by 1mg/kg twice daily.	30mg-single IV bolus plus a 1mg/kg SC dose followed by 1mg/kg once daily					
(Max 100mg for each of the first two SC doses)	(Max 100mg for first SC dose only)					
For treatment of acute STEMI in elderly pa	atients ≥75 years of age					
0.75mg/kg SC twice daily without initial bolus.	1mg/kg SC once daily without initial bolus.					
(Max 75mg for each of the first two SC doses)	(Max 100mg for first SC dose only)					

Dosage adjustments for prophylactic dosage ranges

Standard dosing	Severe renal impairment
40mg SC once daily	20mg SC once daily
20mg SC once daily	20mg SC once daily

The recommended dosage adjustments do not apply to the haemodialysis indication.

Moderate and mild renal impairment:

	120	100mg / 1ml	90 bd (1)	90 bd (1)	0.90 (1)
	125	100mg / 1ml	93.75 bd (1)	95 bd (1)	0.95 (1)
	130	100mg / 1ml	97.5 bd (1)	97.5 bd (1)	0.975 (1)
150mg/ml Solution for	135	120mg / 0.8ml	101.25 bd (1)	102 bd (1)	0.68 (1)
Injection	140	120mg / 0.8ml	105 bd (1)	105 bd (1)	0.7 (1)
CLEXANE Forte	145	120mg / 0.8ml	108.75 bd (1)	111 bd (1)	0.74 (1)
syringes	150	120mg / 0.8ml	112.5 bd (1)	114 bd (1)	0.76 (1)

(1) not to be given for the first two doses - (maximum 75mg for the first two doses only, followed by

0.75mg/kg dosing for the remaining doses)

Please be aware that in some cases it is not possible to achieve an exact dose due to the graduations on the syringe and so some of the volumes recommended in this table have been rounded up to the nearest graduation.

Children: Not recommended, as dosage not established.

Renal impairment: (See also section 4.4 'Special warnings and precautions for use: Renal impairment and Monitoring', section 5.2 'Pharmacokinetic properties').

Severe renal impairment.

A dosage adjustment is required for patients with severe renal impairment

(creatinine clearance < 30 ml/min), according to the following tables, since enoxaparin sodium exposure is significantly increased in this patient population:

Although no dosage adjustments are recommended in patients with moderate renal impairment (creatinine clearance 30-50 ml/min) or mild renal impairment (creatinine clearance 50-80 ml/min), careful clinical monitoring is advised.

Spinal/epidural anaesthesia:

For patients receiving spinal/epidural anaesthesia see section 4.4 'Special warnings and precautions for use:' Spinal/epidural anaesthesia.

Hepatic impairment: In the absence of clinical studies, caution should be exercised. Body weight:

No dosage adjustments are recommended in obesity or low body weight (see also section 4.4 'Special warnings and precautions for use: 'Low body weight and Monitoring', section 5.2 'Pharmacokinetic properties').

Clexane is administered by subcutaneous injection for the prevention of venous thromboembolic disease, treatment of deep vein thrombosis or for the treatment of unstable angina, non-Q-wave myocardial infarction and acute ST elevation myocardial infarction (STEMI); through the arterial line of a dialysis circuit for the prevention of thrombus formation in the extra-corporeal circulation during haemodialysis; and via intravenous (bolus) injection through an intravenous line only for the initial dose of acute STEMI indication and before PCI when needed. It must not be administered by the intramuscular route.

4. Possible side effects

Like all medicines, Clexane can cause side effects, although not everybody gets them. Tell a nurse or doctor or go to hospital straight away if you notice any of the following side effects:

Very common (affects more than 1 in 10 people)

Bleeding a lot from a wound.

Common (affects 1 to 10 people in a 100)

 A painful rash of dark red spots under the skin which do not go away when you put pressure on them. You may also notice pink patches on your skin. These are more likely to appear in the area you have been injected with Clexane.

Uncommon (affects 1 to 10 people in a 1,000)

- Sudden severe headache. This could be a sign of bleeding in the brain.
- A feeling of tenderness and swelling in your stomach. You may have bleeding inside your stomach.

Rare (affects less than 1 in a 1000 people)

• If you have an allergic reaction. The signs may include: a rash, swallowing or breathing problems, swelling of your lips, face, throat or tongue.

Frequency unknown

 If you have had a spinal puncture or a spinal anaesthetic and notice tingling, numbness and muscular weakness, particularly in the lower part of your body. Also if you lose control over your bladder or bowel (so you cannot control when you go to the toilet).

Tell a nurse or doctor as soon as possible if you notice any of the following side effects:

Common (affects 1 to 10 people in a 100)

- You bruise more easily than usual. This could be because of a blood problem (thrombocytopenia).
- You have pain, swelling or irritation in the area you have been injected with Clexane. This normally gets better after a few days.

Rare (affects less than 1 in a 1000 people)

If you have a mechanical heart valve, treatment with Clexane might not be sufficient to prevent blood clots. You may notice that you have difficulty breathing, tiredness or difficulty exercising, chest pain, numbness, feeling sick or loss of consciousness. This could be due to a blood clot on the heart valve

Frequency unknown

- Feeling tired, faint, dizzy, having pale skin. These could be symptoms of anaemia.
- You notice yellowing of your skin or eyes and your urine becomes darker in colour. This could be a liver problem.

Other side effects that you should discuss with your nurse or doctor if you are concerned about them:

Very common (affects more than 1 in 10 people)

- Changes in the results of blood tests done to check how your liver is working. These usually go back to normal after you stop having Clexane.
- Rare (affects less than 1 in a 1000 people)
- Changes in the potassium levels in your blood. This is more likely to happen in people with kidney problems or diabetes. Your doctor will be able to check this by carrying out a blood test.

Frequency unknown

- If Clexane is used for a long period of time (more than 3 months), it may increase the risk of you getting a condition called 'osteoporosis'. This is when your bones are more likely to break
- Headache
- Hair loss

Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the Yellow Card Scheme at: www.mhra.gov.uk/yellowcard. By reporting side effects, you can help provide more information on the safety of this medicine.

5. How to store Clexane

Keep out of the sight and reach of children. Do not use Clexane after the expiry date which is stated on the carton and blister label after 'Exp'. The expiry date refers to the last day of that month.

Do not store above 25°C.

Do not refrigerate. Do not freeze. Medicines should not be disposed of via wastewater or household waste. If you are using this medicine at home you will be given a container (a sharps bin) to use for disposal. Return the sharps bin or any used or unused syringes to your doctor or nurse or pharmacist for disposal. These measures will help to protect the environment.

6. Further Information

What Clexane contains

The active ingredient in clexane is enoxaparin sodium. Each pre-filled syringe contains 60mg enoxaparin sodium (equivalent to 6,000 IU anti-Xa activity) in 0.6ml water for injections. The other inactive ingredient is water for injections.

What Clexane looks like and contents of the pack

Clexane clear, colourless to pale yellow solution for injection in a glass pre-filled syringe fitted with an injection needle and needle cap. It is supplied in packs of 10 syringes.

Manufactured by: Sanofi Winthrop Industrie, 180 rue Jean-Jaures, 94702 Maisons Alfort France. Or

Sanofi Winthrop Industrie, Boulevard Industriel, 76580 Le Trait, France.

Procured from within the EU and repackaged by the Product Licence holder: B&S Healthcare, Unit 4, Bradfield Road, Ruislip, Middlesex, HA4 0NU, UK.

Clexane[®] 60mg/0.6ml Syringes PL 18799/2375



Leaflet date: 12.02.2016 Clexane is a registered trade mark of sanofi-aventis.

Subcutaneous injection technique

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The pre-filled disposable syringe is ready for immediate use. Clexane should be administered when the patient is lying down by deep subcutaneous injection. The administration should be alternated between the left and right anterolateral or posterolateral abdominal wall. The whole length of the needle should be introduced vertically into a skin fold held between the thumb and index finger. The skin fold should not be released until the injection is complete.

Once the plunger is fully pressed down the safety device is activated automatically. This protects the used needle.

Note: The plunger has to be pressed down all the way for the safety device to be activated. Do not rub the injection site after administration.

Intravenous (Bolus) Injection Technique (for acute STEMI indication only):

For intravenous injection, either the Multidose Vial or 60mg, 80mg or 100mg pre-filled syringes can be used. Enoxaparin sodium should be administered through an intravenous line. It should not be mixed or co-administered with other medications. To avoid the possible mixture of enoxaparin sodium with all other drugs, the intravenous access chosen should be flushed with a sufficient amount of saline or dextrose solution prior to and following the intravenous bolus administration of enoxaparin sodium to clear the port of drug. Enoxaparin sodium may be safely administered with normal saline solution (0.9%) or 5% dextrose in water.

Initial 30mg bolus

For the initial 30mg bolus, using an enoxaparin sodium graduated pre-filled syringe (60, 80 or 100mg), expel the excessive volume to retain only 30mg (0.3ml) in the syringe. The 30mg dose can then be directly injected into an injection site in the intravenous line.

Additional bolus for PCI when last SC administration was given more than 8 hours before balloon insertion

For patients being managed with Percutaneous Coronary Intervention (PCI), an additional IV bolus of 0.3mg/kg is to be administered if last SC administration was given more than 8 hours before balloon inflation (see section 4.2 'Posology and method of administration': 'Treatment of acute STsegment Elevation Myocardial Infarction').

Weight	Required dose (0.3mg/kg)	Volume to inject when diluted to a final concentration of 3mg/ml	Weight	Required dose (0.3mg/kg)	Volume to inject when diluted to a final concentration of 3mg/ml
(Kg)	(mg)	(ml)	(Kg)	(mg)	(ml)
45	13.5	4.5	100	30	10
50	15	5	105	31.5	10.5
55	16.5	5.5	110	33	11
60	18	6	115	34.5	11.5
65	19.5	6.5	120	36	12
70	21	7	125	37.5	12.5
75	22.5	7.5	130	39	13
80	24	8	135	40.5	13.5
85	25.5	8.5	140	42	14
90	27	9	145	43.5	14.5
95	28.5	9.5	150	45	15

In order to assure the accuracy of the small volume to be injected, it is recommended to dilute the drug to 3mg/ml.

To obtain a 3mg/ml solution, using a 60mg enoxaparin sodium pre-filled syringe, it is recommended to use a 50ml infusion bag (i.e. using either normal saline solution (0.9%) or 5% dextrose in water) as follows:

Withdraw 30ml from the infusion bag with a syringe and discard the liquid. Inject the complete contents of the 60mg enoxaparin sodium pre-filled syringe into the 20ml remaining in the bag. Gently mix the contents of the bag. Withdraw the required volume of diluted solution with a syringe for administration into the intravenous line (using an appropriate injection site or port). After dilution is completed, the volume to be injected can be calculated using the following formula [Volume of diluted solution (ml) = Patient weight (kg) x 0.1] or using the table below. It is recommended to prepare the dilution immediately before use and to discard any remaining solution immediately after use. Volume to be injected through intravenous line after dilution is completed

6 PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Water for Injections

6.2 Incompatibilities

Subcutaneous Injection

Clexane should not be mixed with any other injections or infusions.

Intravenous (Bolus) Injection for acute STEMI indication only

Enoxaparin sodium may be safely administered with normal saline solution (0.9%) or 5% in dextrose in water.

6.3 Shelf life

36 months

6.4 Special precautions for storage

Do not store above 25°C. Do not refrigerate or freeze. Clexane pre-filled syringes are single dose containers - discard any unused product

6.5 Nature and contents of container

Solution for injection in Type I glass pre-filled syringe in pack of 10.

6.6 Special precautions for disposal

See section 4.2 Posology and method of administration.

7 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

8 DATE OF REVISION OF THE TEXT: 12.02.2016

PACKAGE LEAFLET: **INFORMATION FOR THE USER**

Enoxaparin sodium 60mg/0.6ml Syringes

Read all of this leaflet carefully before you start using this medicine

- · Keep this leaflet. You may need to read it again
- If you have any further questions, ask your doctor or pharmacist
- This medicine has been prescribed for you. Do not pass it on to others. It may harm them, even if their symptoms are the same as yours
- If any of the side effects get serious, or if you notice any side effects not listed in this leaflet, please tell your doctor or pharmacist

Please note that the leaflet also contains information about other strengths, Enoxaparin sodium 20mg, 40mg and 80mg and 100mg Syringes.

In this leaflet:

- 1. What Enoxaparin sodium is and what it is used for
- 2. Before you use Enoxaparin sodium
- 3. How to use Enoxaparin sodium
- 4. Possible side effects
- 5. How to store Enoxaparin sodium
- 6. Further information

1. What Enoxaparin sodium is and what it is used for

The name of your medicine is Enoxaparin sodium 60mg/0.6ml Syringes but it will be referred as Enoxaparin sodium throughout this leaflet. Enoxaparin sodium contains a medicine called enoxaparin sodium. This belongs to a group of medicines called Low Molecular Weight Heparins.

Enoxaparin sodium works in two ways.

- 1) Stopping existing blood clots from getting any bigger. This helps your body to break them down and stop them causing you harm
- 2) Stopping blood clots forming in your blood.

Enoxaparin sodium can be used to:

- Treat blood clots that are in your blood Stop blood clots forming in your blood in the following situations:
 - Unstable angina (where not enough blood gets to your heart)
 - After an operation or long periods of bed rest due to illness
 - After you have had a heart attack
- Stop blood clots forming in the tubes of your dialysis machine (used for people with kidney problems)

2. Before you use Enoxaparin sodium

Do not have this medicine and tell your doctor, pharmacist or nurse if:

- You are allergic (hypersensitive) to х enoxaparin sodium or any of the other ingredients of Enoxaparin sodium (listed in Section 6: 'Further information') Signs of an allergic reaction include: a rash, swallowing or breathing problems, swelling of your lips, face, throat or tongue
- You are allergic to heparin or other Low × Molecular Weight Heparins such as tinzaparin or dalteparin
- You have a problem with bruising or × bleeding too easily
- You have an ulcer in your stomach or gut (intestine)
- You have had a stroke caused by bleeding × in the brain
- You have an infection in your heart х
- You are using the medicine called heparin to × treat blood clots

Do not have this medicine if any of the above apply to you. If you are not sure, talk to your doctor, pharmacist or nurse before having Enoxaparin sodium.

Take special care with Enoxaparin sodium

Check with your doctor or pharmacist or nurse before using this medicine if:

- ▲ You have high blood pressure
- ▲ You have kidney problems
- You have had a heart valve fitted
- You have ever had bruising and bleeding caused by the medicine 'heparin'
- ▲ You have ever had a stroke
- You have ever had a stomach ulcer
- You have recently had an operation on your eyes or brain
- You are a diabetic or have an illness known as 'diabetic retinopathy' (problems with the blood vessels in the eye caused by diabetes)
- You have any problems with your blood
- ▲ You are underweight or overweight
- You are elderly (over 65 years old) and especially if you are aged over 75 years old If you are not sure if any of the above applies to you, talk to your doctor or pharmacist or nurse before using Enoxaparin sodium.

Taking or using other medicines

Please tell your doctor, pharmacist or nurse if you are taking or have recently taken any other medicines. This includes medicines you buy without a prescription, including herbal medicines. This is because Enoxaparin sodium can affect the way some other medicines work. Also some medicines can affect the way Enoxaparin sodium works.

In particular, do not have this medicine and tell your doctor if:

× You are using the medicine called heparin to treat blood clots

Tell your doctor if you are taking any of the following medicines:

- Warfarin used for thinning the blood
- Aspirin, dipyridamole, clopidogrel or other medicines - used to stop blood clots forming

THE FOLLOWING INFORMATION IS INTENDED FOR HEALTHCARE PROFESSIONALS ONLY Enoxaparin sodium 60mg/0.6ml Syringes

The following information is extracted from the SPC Technical information for the administration of Enoxaparin sodium Syringes

1 NAME OF THE MEDICINAL PRODUCT

Enoxaparin sodium 60mg/0.6ml Syringes 2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Pre-filled syringes:

60mg Injection Enoxaparin sodium 60mg (equivalent to 6,000 IU anti-Xa activity) in 0.6ml Water for Injections

For full list of excipients, see section 6.1

3 PHARMACEUTICAL FORM Solution for injection.

Clear, colourless to pale yellow solution.

4.2 Posology and method of administration

Adults:

Prophylaxis of venous thromboembolism:

In patients with a low to moderate risk of venous thromboembolism the recommended dosage is 20mg (2,000IU) once daily by subcutaneous injection for 7 to 10 days, or until the risk of thromboembolism has diminished. In patients undergoing surgery, the initial dose should be given approximately 2 hours pre-operatively. In patients with a higher risk, such as in orthopaedic surgery, the dosage should be 40mg (4,000IU) daily by subcutaneous injection with the initial dose administered approximately 12 hours before surgery.

In patients with a high-risk of venous thromboembolism who undergo abdominal or pelvic surgery for

Dosage chart for 1.5mg/kg SC treatment of DVT, PE or both								
Patient weight	Kg	Syringe label	Dose (mg)	Injection volume (ml)				
	70	120mg / 0.8ml	105 od	0.70				
150mg/ml Solution for	75	120mg / 0.8ml	112.5 od	0.76				
Injection ENOXAPARIN	80	120mg / 0.8ml	120 od	0.80				
SODIUM	85	150mg / 1ml	127.5 od	0.86				
Forte syringes	90	150mg / 1ml	135 od	0.90				
	95	150mg / 1ml	142.5 od	0.96				
	100	150mg/ 1ml	150 od	1.00				

Please be aware that in some cases it is not possible to achieve an exact dose due to the graduations on the syringe and so some of the volumes recommended in this table have been rounded up to the nearest graduation.

Treatment of unstable angina and non-Q-wave myocardial infarction

The recommended dose is 1mg/kg Enoxaparin sodium every 12 hours by subcutaneous injection, administered concurrently with oral aspirin (100 to 325mg once daily). Treatment with Enoxaparin sodium in these patients should be prescribed for a minimum of 2 days and continued until clinical stabilisation. The usual duration of treatment is 2 to 8 days.

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cancer and are not otherwise at risk for major bleeding complications, the recommended dosage is 40mg (4,000IU) once daily by subcutaneous injection for 4 weeks with the initial dose administered approximately 12 hours before surgery.

Prophylaxis of venous thromboembolism in medical patients: The recommended dose of enoxaparin sodium is 40mg (4,000 IU) once daily by subcutaneous injection. Treatment with enoxaparin sodium is prescribed for a minimum of 6 days and continued until the return to full ambulation, for a maximum of 14 days.

Treatment of venous thromboembolism:

Enoxaparin sodium should be administered subcutaneously as a single daily injection of 1.5mg/kg (150IU/kg). Enoxaparin sodium treatment is usually prescribed for at least 5 days and until adequate oral anticoagulation is established.

Dosage chart for 1.5mg/kg SC treatment of DVT, PE or both							
Patient weight	Kg	Syringe label	Dose (mg)	Injection volume (ml)			
	40	60mg / 0.6ml	60 od	0.60			
100mg/ml	45	80mg / 0.8ml	67.5 od	0.675			
Solution for Injection	50	80mg / 0.8ml	75 od	0.75			
ENOXAPARIN SODIUM syringes	55	100mg / 1ml	82.5 od	0.825			
eygee	60	100mg / 1ml	90 od	0.90			
	65	100mg / 1ml	97.5 od	0.975			

Dosage chart for 1mg/kg SC treatment of UA or NSTEMI							
Patient weight	Kg	Syringe label	Dose (mg)	Injection volume (ml)			
	40	40mg / 0.4ml	40 bd	0.40			
	45	60mg / 0.6ml	45 bd	0.45			
	50	60mg / 0.6ml	50 bd	0.50			
	55	60mg / 0.6ml	55 bd	0.55			
	60	60mg / 0.6ml	60 bd	0.60			
100mg/ml Solution for	65	80mg / 0.8ml	65 bd	0.65			
Injection ENOXAPARIN	70	80mg / 0.8ml	70 bd	0.70			
SODIUM syringes	75	80mg / 0.8ml	75 bd	0.75			
	80	80mg / 0.8ml	80 bd	0.80			
	85	100mg / 1ml	85 bd	0.85			
	90	100mg / 1ml	90 bd	0.90			
	95	100mg / 1ml	95 bd	0.95			
	100	100mg / 1ml	100 bd	1.00			

- Dextran injection used as a blood replacer
- Ibuprofen, diclofenac, ketorolac or other medicines - used to treat pain and swelling in arthritis and other illnesses
- Prednisolone, dexamethasone or other medicines - used to treat asthma, rheumatoid arthritis and other conditions
- Water tablets (diuretics) such as spironolactone, triamterene or amiloride. These may increase the levels of potassium in your blood when taken with Enoxaparin sodium

Your doctor may change one of your medicines or take regular blood tests to check that taking these medicines with Enoxaparin sodium is not causing you any harm.

Operations and anaesthetics

If you are going to have a spinal puncture or an operation where an epidural or spinal anaesthetic is used, tell your doctor that you are using Enoxaparin sodium. Tell also your doctor if you have any problem with your spine or if you have ever had spinal surgery.

Pregnancy and breast-feeding

Talk to your doctor before you use this medicine if you are pregnant, might become pregnant, or think you may be pregnant.

You should not use this medicine if you are pregnant and have a mechanical heart valve as you may be at increased risk of developing blood clots. Your doctor should discuss this with you.

You should not breast-feed whilst using Enoxaparin sodium. If you are planning to breast-feed, talk to your doctor, pharmacist or nurse.

Ask your doctor or pharmacist for advice before taking any medicine if you are pregnant or breast-feeding.

3. How to use Enoxaparin sodium

Having this medicine

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- Before you use Enoxaparin sodium your doctor or nurse may carry out a blood test
- While you are in hospital your doctor or nurse will normally give you Enoxaparin sodium. This is because it needs to be given as an injection

- When you go home you may need to continue to use Enoxaparin sodium and give it to yourself (see below instructions on how to do this)
- Enoxaparin sodium is usually given by • injection underneath the skin (subcutaneous)
- Do not inject Enoxaparin sodium into a muscle (intramuscular)

If you are not sure why you are receiving Enoxaparin sodium or have any questions about how much Enoxaparin sodium is being given to you, speak to your doctor, pharmacist or nurse.

How much will be given to you

- Your doctor will decide how much to give you. The amount of Enoxaparin sodium given to you will depend on the reason it is being used
- If you have problems with your kidneys, you • may be given a smaller amount of Enoxaparin sodium

1) Treating blood clots that are in your blood

- The usual dose is 1.5mg for every kilogram
- of your weight, each day Enoxaparin sodium will usually be given for at least 5 days
- 2) Stopping blood clots forming in your blood in the following situations:
- a) Unstable angina
- The usual amount is 1mg for every kilogram of weight, every 12 hours
- Enoxaparin sodium will usually be given for 2 to 8 days. Your doctor will normally ask you to take aspirin as well
- b) After an operation or long periods of bedrest due to illness

The usual dose is 20mg or 40mg each day. The dose will depend on how likely you are to develop a clot

- If you have a low to medium risk of getting a clot, you will be given 20mg of Enoxaparin sodium each day for 7 to 10 days. If you are going to have an operation, your first injection will usually be given 2 hours before your operation
- If you have a higher risk of getting a clot, you will be given 40mg each day for 7 to 28 days. If you are going to have an operation, your first injection will usually be given 12 hours before your operation

 If you are bedridden due to illness, you will be normally be given 40mg of Enoxaparin sodium each day for 6 to 14 days

c) After you have had a heart attack Enoxaparin sodium can be used for two different types of heart attack called NSTEMI or STEMI.

The amount of Enoxaparin sodium given to you will depend on your age and the kind of heart attack you have had.

i) NSTEMI type of heart attack

- The usual amount is 1mg for every kilogram of weight, every 12 hours
- Enoxaparin sodium will usually be given for 2 to 8 days. Your doctor will normally ask you to take aspirin as well
- ii) STEMI type of heart attack

If you are under 75 years old

- 30mg of Enoxaparin sodium will be given as an injection into your vein (intravenous injection using Enoxaparin sodium Multidose Vial or 60, 80 or 100mg Pre-filled syringes)
- At the same time, you will also be given Enoxaparin sodium as an injection under your skin (subcutaneous injection). The usual dose is 1mg for every kilogram of your weight.
- Then you will be given 1mg for every kilogram of your weight every 12 hours
- The maximum amount of Enoxaparin sodium given for the first two injections is 100mg
- The injections will normally be given for up to 8 days

If you are aged 75 years or older

- Your doctor or nurse will give you injections of Enoxaparin sodium under your skin (subcutaneous injection)
- The usual dose is 0.75mg for every kilogram of your weight, every 12 hours
- The maximum amount of Enoxaparin sodium given for the first two injections is 75mg

For patients having an operation called Percutaneous Coronary Intervention (PCI)

Depending on when you were last given Enoxaparin sodium, your doctor may decide to give an additional dose of Enoxaparin sodium before a PCI operation. This is by injection into your vein (intravenous using Enoxaparin sodium Multidose Vial or 60, 80 or 100mg Pre-filled syringes)

Dosage chart for 1mg/kg SC treatment of UA or NSTEMI						
Patient weight	Kg	Syringe label	Dose (mg)	Injection volume (ml)		
	105	120mg / 0.8ml	105 bd	0.70		
	110	120mg / 0.8ml	110 bd	0.74		
150mg/ml	115	120mg / 0.8ml	115 bd	0.78		
Solution for Injection	120	120mg / 0.8ml	120 bd	0.80		
NOXAPARIN	125	150mg / 1ml	125 bd	0.84		
Forte	130	150mg / 1ml	130 bd	0.88		
syringes	135	150mg / 1ml	135 bd	0.90		
	140	150mg / 1ml	140 bd	0.94		
	145	150mg / 1ml	145 bd	0.98		
	150	150mg / 1ml	150 bd	1.00		

Please be aware that in some cases it is not possible to achieve an exact dose due to the graduations on the syringe and so some of the volumes recommended in this table have been rounded up to the nearest graduation.

Treatment of acute ST-segment Elevation Myocardial Infarction

Dosage chart for 1mg/kg SC treatment of STEMI						
Patient weight	Kg	Syringe label	Dose (mg)	Injection volume (ml)		
	105	120mg / 0.8ml (1)	105 bd (1)	0.70 (1)		
	110	120mg / 0.8ml (1)	110 bd (1)	0.74 (1)		
150mg/ml	115	120mg / 0.8ml (1)	115 bd (1)	0.78 (1)		
Solution for Injection	120	120mg / 0.8ml (1)	120 bd (1)	0.80 (1)		
NOXAPARIN	125	150mg / 1ml (1)	125 bd (1)	0.84 (1)		
SODIUM Forte	130	150mg / 1ml (1)	130 bd (1)	0.88 (1)		
syringes	135	150mg / 1ml (1)	135 bd (1)	0.90 (1)		
	140	150mg / 1ml (1)	140 bd (1)	0.94 (1)		
	145	150mg / 1ml (1)	145 bd (1)	0.98 (1)		
	150	150mg / 1ml (1)	150 bd (1)	1.00 (1)		

(1) Not to be given for the first two doses - (maximum 100mg for the first two doses only, followed by

The recommended dose of enoxaparin sodium is a single IV bolus of 30mg plus a 1mg/kg SC dose followed by 1mg/kg administered SC every 12 hours (max 100mg for the first two doses only, followed by 1mg/kg dosing for the remaining doses). For dosage in patients ≥75 years of age, see section 4.2 'Posology and method of administration: Elderly'.

	Dosage chart for 1mg/kg SC treatment of STEMI						
Patient weight	Kg	Syringe label	Dose (mg)	Injection volume (ml)			
	40	40mg / 0.4ml	40 bd	0.40			
	45	60mg / 0.6ml	45 bd	0.45			
	50	60mg / 0.6ml	50 bd	0.50			
100mm/ml	55	60mg / 0.6ml	55 bd	0.55			
100mg/ml Solution for	60	60mg / 0.6ml	60 bd	0.60			
Injection ENOXAPARIN	65	80mg / 0.8ml	65 bd	0.65			
SODIUM syringes	70	80mg / 0.8ml	70 bd	0.70			
synnges	75	80mg / 0.8ml	75 bd	0.75			
	80	80mg / 0.8ml	80 bd	0.80			
	85	100mg / 1ml	85 bd	0.85			
	90	100mg / 1ml	90 bd	0.90			
	95	100mg / 1ml	95 bd	0.95			
	100	100mg / 1ml	100 bd	1.00			

mg/kg dosing for the remaining doses)

Please be aware that in some cases it is not possible to achieve an exact dose due to the graduations on the syringe and so some of the volumes recommended in this table have been rounded up to the nearest graduation.

When administered in conjunction with a thrombolytic (fibrin specific or non-fibrin specific) enoxaparin sodium should be given between 15 minutes before and 30 minutes after the start of fibrinolytic therapy. All patients should receive acetylsalicylic acid (ASA) as soon as they are identified as having STEMI and maintained under (75 to 325mg once daily) unless contraindicated.

The recommended duration of enoxaparin sodium treatment is 8 days or until hospital discharge, whichever comes first.

For patients managed with Percutaneous Coronary Intervention (PCI): If the last enoxaparin sodium SC administration was given less than 8 hours before balloon inflation, no additional dosing is needed. If the last SC administration was given more than 8 hours before balloon inflation, an IV bolus of 0.3mg/kg of enoxaparin sodium should be administered.

Prevention of extracorporeal thrombus formation during haemodialysis: A dose equivalent to 1 mg/kg (100 IU/kg) introduced into the arterial line at the beginning of a dialysis session is usually sufficient for a 4 hour session. If fibrin rings are found, such as after a longer than normal session, a further dose of 0.5 to 1mg/kg (50 to 100 IU/kg) may be given. For patients at a high risk of haemorrhage the dose should be reduced to 0.5 mg/kg (50 IU/kg) for double vascular access or 0.75 mg/kg (75 IU/kg) for single vascular access.

Elderly:

For treatment of acute ST-segment Elevation Myocardial Infarction in elderly patients ≥75 years of age, do not use an initial IV bolus. Initiate dosing with 0.75mg/kg SC every 12 hours (maximum 75mg for the first two doses only, followed by 0.75mg/kg dosing for the remaining doses). For other indications, no dosage adjustments are necessary in the elderly, unless kidney function is impaired (see also section 4.2 'Posology and method of administration: Kenal impairment;' section 4.4 Special warnings and precautions for use: Haemorrhage in the elderly; Renal impairment, and Monitoring', section 5.2 'Pharmacokinetic properties').

- 3) Stopping blood clots forming in the tubes of your dialysis machine
- The usual dose is 1mg for every kilogram of your weight
- Enoxaparin sodium is added to the tube leaving the body (arterial line) at the start of the dialysis session
- This amount is usually enough for a 4 hour session. However, your doctor may give you a further dose of 0.5 to 1mg for every kilogram of your weight if necessary

How to give yourself an injection of Enoxaparin sodium

If you are able to give Enoxaparin sodium to yourself, your doctor or nurse will show you how to do this. Do not try to inject yourself if you have not been trained how to do so. If you are not sure what to do, talk to your doctor or nurse immediately.

Before injecting yourself with Enoxaparin sodium

- Check the expiry date on the medicine. Do not use if the date has passed
- Check the syringe is not damaged and the medicine in it is a clear solution. If not, use another syringe
- Make sure you know how much you are going to inject
- Check your abdomen to see if the last injection caused any redness, change in skin colour, swelling, oozing or is still painful, if so talk to your doctor or nurse
- Decide where you are going to inject the medicine. Change the place where you inject each time from the right to the left side of your stomach. Enoxaparin sodium should be injected just under the skin on your stomach, but not too near the belly button or any scar tissue (at least 5 cm away from these)

Instructions on injecting yourself with Enoxaparin sodium:

1) Wash your hands and the area that you will inject with soap and water. Dry them.



- 2) Sit or lie in a comfortable position so you are relaxed. Make sure you can see the place you are going to inject. A lounge chair, recliner,
- or bed propped up with pillows is ideal. 3) Choose an area on the right or left side of
- your stomach. This should be at least 5 centimetres away from your belly button and out towards your sides. Remember: Do not inject yourself within 5 centimetres of your belly button or around

existing scars or bruises. Change the place where you inject between the left and right sides of your stomach, depending on the area you were last injected.

4) Carefully pull off the needle cap from the Enoxaparin sodium syringe. Throw away the cap. The syringe is pre-filled and ready to use.

Do not press on the plunger before injecting yourself to get rid of air bubbles. This can lead to a loss of the medicine. Once you have removed the cap, do not allow the needle to touch anything. This is to make sure the needle stays clean (sterile).

5) Hold the syringe in the hand you write with (like a pencil) and with your other hand, gently pinch the cleaned area of your abdomen between your forefinger and thumb to make a fold in the skin



Make sure you hold the skin fold throughout the injection.

- 6) Hold the syringe so that the needle is pointing downwards (vertically at a 90° angle). Insert the full length of the needle into the skin fold.
- 7) Press down on the plunger with your thumb. This will send the medication into the fatty tissue of the stomach. Make sure you hold the skin fold throughout the injection.



- Remove the needle by pulling it straight out. You can now let go of the skin fold. To avoid bruising, do not rub the injection site after you have injected yourself.
- 9) Drop the used syringe into the sharps bin provided. Close the container lid tightly and place the container out of reach of children.

When the container is full, give it to your doctor or home care nurse for disposal. Do not put it in the household rubbish.

If you have too much or too little Enoxaparin sodium

If you think that you have used too much or too little Enoxaparin sodium, tell your doctor, nurse or pharmacist immediately, even if you have no signs of a problem. If a child accidentally injects or swallows Enoxaparin sodium, take them to a hospital casualty department straight away.

If you forget to use Enoxaparin sodium

If you forget to give yourself a dose, have it as soon as you remember. Do not give yourself a double dose on the same day to make up for a forgotten dose. Keeping a diary will help to make sure you do not miss a dose

If you stop using Enoxaparin sodium

It is important for you to keep having Enoxaparin sodium injections until your doctor decides to stop them. If you stop, you could get a blood clot which can be very dangerous. Blood Tests

Using Enoxaparin sodium may affect the results of some blood tests. If you are going to have a blood test, it is important to tell your doctor you are having Enoxaparin sodium.

Dosage chart fo	Dosage chart for 0.75mg/kg SC treatment of STEMI (elderly patients aged ≥75 years only)						
Patient weight			0.75mg/kg Dose (mg)	Adjusted dosing (mg)	Injection volume (ml)		
	40	60mg / 0.6ml	30 bd	30 bd	0.30		
	45	60mg / 0.6ml	33.75 bd	35 bd	0.35		
	50	60mg / 0.6ml	37.5 bd	37.5 bd	0.375		
	55	60mg / 0.6ml	41.25 bd	42.5 bd	0.425		
	60	60mg / 0.6ml	45 bd	45 bd	0.45		
	65	60mg / 0.6ml	48.75 bd	50 bd	0.5		
	70	60mg / 0.6ml	52.5 bd	52.5 bd	0.525		
	75	60mg / 0.6ml	56.25 bd	57.5 bd	0.575		
100mg/ml Solution for	80	60mg / 0.6ml	60 bd	60 bd	0.60		
Injection ENOXAPARIN SODIUM	85	80mg / 0.8ml	63.75 bd	65 bd	0.65		
syringes	90	80mg / 0.8ml	67.5 bd	67.5 bd	0.675		
	95	80mg / 0.8ml	71.25 bd	72.5 bd	0.725		
	100	80mg / 0.8ml	75 bd	75 bd	0.75		

Dosage adjustments for therapeutic dosage range

Standard dosing	Severe renal impairment			
1mg/kg SC twice daily	1mg/kg SC once daily			
1.5mg/kg SC once daily	1mg/kg SC once daily			
For treatment of acute STEMI	in patients <75 years of age			
30mg-single IV bolus plus a 1mg/kg SC dose followed by 1mg/kg twice daily. (Max 100mg for each of the first two SC doses)	30mg-single IV bolus plus a 1mg/kg SC dose followed by 1mg/kg once daily (Max 100mg for first SC dose only)			
For treatment of acute STEMI in elderly patients ≥75 years of age				
0.75mg/kg SC twice daily without initial bolus.	1mg/kg SC once daily without initial bolus.			
(Max 75mg for each of the first two SC doses)	(Max 100mg for first SC dose only)			

Dosage adjustments for prophylactic dosage ranges

Standard dosing	Severe renal impairment
40mg SC once daily	20mg SC once daily
20mg SC once daily	20mg SC once daily

The recommended dosage adjustments do not apply to the haemodialysis indication.

Moderate and mild renal impairment:

	105	80mg / 0.8ml	78.75 bd (1)	80 bd (1)	0.80 (1)
	110	100mg / 1ml	82.5 bd (1)	82.5 bd (1)	0.825 (1)
	115	100mg / 1ml	86.25 bd (1)	87.5 bd (1)	0.875 (1)
	120	100mg / 1ml	90 bd (1)	90 bd (1)	0.90 (1)
	125	100mg / 1ml	93.75 bd (1)	95 bd (1)	0.95 (1)
	130	100mg / 1ml	97.5 bd (1)	97.5 bd (1)	0.975 (1)
150mg/ml Solution for	135	120mg / 0.8ml	101.25 bd (1)	102 bd (1)	0.68 (1)
Injection ENOXAPARIN	140	120mg / 0.8ml	105 bd (1)	105 bd (1)	0.7 (1)
SODIUM	145	120mg / 0.8ml	108.75 bd (1)	111 bd (1)	0.74 (1)
Forte syringes	150	120mg / 0.8ml	112.5 bd (1)	114 bd (1)	0.76 (1)

(1) not to be given for the first two doses - (maximum 75mg for the first two doses only, followed by

0.75mg/kg dosing for the remaining doses)

Please be aware that in some cases it is not possible to achieve an exact dose due to the graduations on the syringe and so some of the volumes recommended in this table have been rounded up to the nearest graduation.

Children: Not recommended, as dosage not established.

Renal impairment: (See also section 4.4 'Special warnings and precautions for use: Renal impairment

and Monitoring', section 5.2 'Pharmacokinetic properties').

Severe renal impairment.

A dosage adjustment is required for patients with severe renal impairment

(creatinine clearance < 30 ml/min), according to the following tables, since enoxaparin sodium exposure is significantly increased in this patient population:

Although no dosage adjustments are recommended in patients with moderate renal impairment (creatinine clearance 30-50 ml/min) or mild renal impairment (creatinine clearance 50-80 ml/min), careful clinical monitoring is advised.

Spinal/epidural anaesthesia:

For patients receiving spinal/epidural anaesthesia see section 4.4 'Special warnings and precautions for use:' Spinal/epidural anaesthesia.

Hepatic impairment: In the absence of clinical studies, caution should be exercised.

Body weight:

No dosage adjustments are recommended in obesity or low body weight (see also section 4.4 'Special warnings and precautions for use: 'Low body weight and Monitoring', section 5.2 'Pharmacokinetic properties').

Enoxaparin sodium is administered by subcutaneous injection for the prevention of venous thromboembolic disease, treatment of deep vein thrombosis or for the treatment of unstable angina. non-Q-wave myocardial infarction and acute ST elevation myocardial infarction (STEMI); through the arterial line of a dialysis circuit for the prevention of thrombus formation in the extracorporeal circulation during haemodialysis; and via intravenous (bolus) injection through an intravenous line only for the initial dose of acute STEMI indication and before PCI when needed. It must not be administered by the intramuscular route.

4. Possible side effects

Like all medicines, Enoxaparin sodium can cause side effects, although not everybody gets them.

Tell a nurse or doctor or go to hospital straight away if you notice any of the following side effects:

Very common (affects more than 1 in 10 people)

Bleeding a lot from a wound.

Common (affects 1 to 10 people in a 100)

• A painful rash of dark red spots under the skin which do not go away when you put pressure on them. You may also notice pink patches on your skin. These are more likely to appear in the area you have been injected with Enoxaparin sodium.

Uncommon (affects 1 to 10 people in a 1,000)

- Sudden severe headache. This could be a sign of bleeding in the brain.
- A feeling of tenderness and swelling in your stomach. You may have bleeding inside your stomach.

Rare (affects less than 1 in a 1000 people)

• If you have an allergic reaction. The signs may include: a rash, swallowing or breathing problems, swelling of your lips, face, throat or tongue.

Frequency unknown

• If you have had a spinal puncture or a spinal anaesthetic and notice tingling, numbness and muscular weakness, particularly in the lower part of your body. Also if you lose control over your bladder or bowel (so you cannot control when you go to the toilet).

Tell a nurse or doctor as soon as possible if you notice any of the following side effects:

Common (affects 1 to 10 people in a 100)

- You bruise more easily than usual. This could be because of a blood problem (thrombocytopenia).
- You have pain, swelling or irritation in the area you have been injected with Enoxaparin sodium. This normally gets better after a few days.

Rare (affects less than 1 in a 1000 people)

If you have a mechanical heart valve, treatment with Enoxaparin sodium might not be sufficient to prevent blood clots. You may notice that you have difficulty breathing, tiredness or difficulty exercising, chest pain, numbness, feeling sick or loss of consciousness. This could be due to a blood clot on the heart valve

Frequency unknown

- Feeling tired, faint, dizzy, having pale skin. These could be symptoms of anaemia.
- You notice yellowing of your skin or eyes and your urine becomes darker in colour. This could be a liver problem.

Other side effects that you should discuss with your nurse or doctor if you are concerned about them:

Very common (affects more than 1 in 10 people)

Changes in the results of blood tests done to check how your liver is working. These usually go back to normal after you stop having Enoxaparin sodium.

Rare (affects less than 1 in a 1000 people)

Changes in the potassium levels in your blood. This is more likely to happen in people with kidney problems or diabetes. Your doctor will be able to check this by carrying out a blood test.

Frequency unknown

- If Enoxaparin sodium is used for a long period of time (more than 3 months), it may increase the risk of you getting a condition called 'osteoporosis'. This is when your bones are more likely to break
- Headache
- Hair loss

Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the Yellow Card Scheme at: www.mhra.gov.uk/yellowcard.

By reporting side effects, you can help provide more information on the safety of this medicine.

5. How to store Enoxaparin sodium

Keep out of the sight and reach of children. Do not use Enoxaparin sodium after the expiry date which is stated on the carton and blister label after 'Exp'. The expiry date refers to the last day of that month.

Do not store above 25°C. Do not refrigerate or freeze.

Medicines should not be disposed of via wastewater or household waste. If you are using this medicine at home you will be given a container (a sharps bin) to use for disposal. Return the sharps bin or any used or unused syringes to your doctor or nurse or pharmacist for disposal. These measures will help to protect the environment.

6. Further Information

What Enoxaparin sodium contains

The active ingredient in clexane is enoxaparin sodium. Each pre-filled syringe contains 60mg enoxaparin sodium (equivalent to 6,000 IU anti-Xa activity) in 0.6ml water for injections. The other inactive ingredient is water for injections.

What Enoxaparin sodium looks like and contents of the pack

Enoxaparin sodium is a clear, colourless to pale yellow solution for injection in a glass prefilled syringe fitted with an injection needle and needle cap. It is supplied in packs of 10 syringes.

Manufactured by: Sanofi Winthrop Industrie. 180 rue Jean-Jaures, 94702 Maisons Alfort France. Or

Sanofi Winthrop Industrie, Boulevard Industriel, 76580 Le Trait, France.

Procured from within the EU and repackaged by the Product Licence holder: B&S Healthcare, Unit 4, Bradfield Road, Ruislip, Middlesex, HA4 0NU, UK.

Enoxaparin sodium 60mg/0.6ml Syringes PL 18799/2375

Leaflet date: 12.02.2016

POM

Subcutaneous injection technique

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The prefilled disposable syringe is ready for immediate use. Enoxaparin sodium should be administered when the patient is lying down by deep subcutaneous injection. The administration should be alternated between the left and right anterolateral or posterolateral abdominal wall. The whole length of the needle should be introduced vertically into a skin fold held between the thumb and index finger. The skin fold should not be released until the injection is complete. Once the plunger is fully pressed down the safety device is activated automatically. This protects the used needle.

Note: The plunger has to be pressed down all the way for the safety device to be activated. Do not rub the injection site after administration.

Intravenous (Bolus) Injection Technique (for acute STEMI indication only): For intravenous injection, either the Multidose Vial or 60mg, 80mg or 100mg prefilled syringes can be used. Enoxaparin sodium should be administered through an intravenous line. It should not be mixed or co-administered with other medications. To avoid the possible mixture of enoxaparin sodium with all other drugs, the intravenous access chosen should be flushed with a sufficient amount of saline or dextrose solution prior to and following the intravenous bolus administration of enoxaparin sodium to clear the port of drug. Enoxaparin sodium may be safely administered with normal saline solution (0.9%) or 5% dextrose in water.

Initial 30mg bolus

For the initial 30mg bolus, using an enoxaparin sodium graduated prefilled syringe (60, 80 or 100mg), expel the excessive volume to retain only 30mg (0.3ml) in the syringe. The 30mg dose can then be directly injected into an injection site in the intravenous line.

Additional bolus for PCI when last SC administration was given more than 8 hours before balloon insertion

For patients being managed with Percutaneous Coronary Intervention (PCI), an additional IV bolus kg is to be administered if last SC administration was given more than 8 hours balloon inflation (see section 4.2 'Posology and method of administration': 'Treatment of acute STsegment Elevation Myocardial Infarction').

Weight	Required dose (0.3mg/kg)	Volume to inject when diluted to a final concentration of 3mg/ml	Weight	Required dose (0.3mg/kg)	Volume to inject when diluted to a final concentration of 3mg/ml
(Kg)	(mg)	(ml)	(Kg)	(mg)	(ml)
45	13.5	4.5	100	30	10
50	15	5	105	31.5	10.5
55	16.5	5.5	110	33	11
60	18	6	115	34.5	11.5
65	19.5	6.5	120	36	12
70	21	7	125	37.5	12.5
75	22.5	7.5	130	39	13
80	24	8	135	40.5	13.5
85	25.5	8.5	140	42	14
90	27	9	145	43.5	14.5
95	28.5	9.5	150	45	15

In order to assure the accuracy of the small volume to be injected, it is recommended to dilute the drug to 3mg/ml.

To obtain a 3mg/ml solution, using a 60mg enoxaparin sodium prefilled syringe, it is recommended to use a 50ml infusion bag (i.e. using either normal saline solution (0.9%) or 5% dextrose in water) as follows:

Withdraw 30ml from the infusion bag with a syringe and discard the liquid. Inject the complete contents of the 60mg enoxaparin sodium prefilled syringe into the 20ml remaining in the bag. Gently mix the contents of the bag. Withdraw the required volume of diluted solution with a syringe for administration into the intravenous line (using an appropriate injection site or port). After dilution is completed, the volume to be injected can be calculated using the following formula [Volume of diluted solution (ml) = Patient weight (kg) x 0.1] or using the table below. It is recommended to prepare the dilution immediately before use and to discard any remaining solution immediately after use. Volume to be injected through intravenous line after dilution is completed

6 PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Water for Injections

6.2 Incompatibilities Subcutaneous Injection

Enoxaparin sodium should not be mixed with any other injections or infusions. Intravenous (Bolus) Injection for acute STEMI indication only

Enoxaparin sodium may be safely administered with normal saline solution (0.9%) or 5% in dextrose in water

6.3 Shelf life

36 months

6.4 Special precautions for storage

Do not store above 25°C. Do not refrigerate or freeze.

Enoxaparin sodium pre-filled syringes are single dose containers - discard any unused product

6.5 Nature and contents of container

Solution for injection in Type I glass pre-filled syringe in pack of 10.

6.6 Special precautions for disposal

See section 4.2 'Posology and method of administration'.

7 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

8 DATE OF REVISION OF THE TEXT: 12.02.2016