



AROV I[®] Enoxaparin
made in Europe

AROV I[®] and ROVI Biotech Ltd

The European Specialist in Heparins

November 2018



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AROVI[®] Enoxaparin
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Product Range



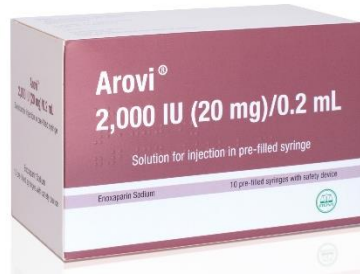
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AROVI®: The same dosage, indications and method of administration as the reference medicine

AROVI® Strengths	Pack Sizes	Product License Number	PIP Code	EAN13 - CODE
2,000 IU (20 mg)/0.2 mL	10 Syringes	PL 15406/0007	408-0867	8437009577-912
4,000 IU (40 mg)/0.4 mL	10 Syringes	PL 15406/0008	408-0859	8437009577-929
6,000 IU (60 mg)/0.6 mL	10 Syringes	PL 15406/0009	408-0875	8437009577-936
8,000 IU (80 mg)/0.8 mL	10 Syringes	PL 15406/0010	408-0883	8437009577-943
10,000 IU (100 mg)/1 mL	10 Syringes	PL 15406/0002	408-0891	8437009577-950
12,000 IU (120 mg)/0.8 mL	10 Syringes	PL 15406/0006	406-1263	8437009577-899
15,000 IU (150 mg)/1 mL	10 Syringes	PL 15406/0003	406-1214	8437009577-905



Product Range (box) - AROVI®



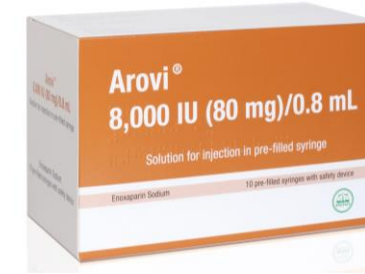
AROVI® **20mg/0.2ml**
Pack of 10 PFS



AROVI® **40mg/0.4ml**
Pack of 10 PFS



AROVI® **60mg/0.6ml**
Pack of 10 PFS



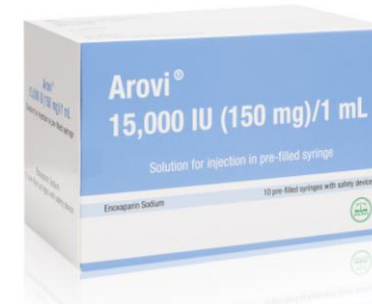
AROVI® **80mg/0.8ml**
Pack of 10 PFS



AROVI® **100mg/1ml**
Pack of 10 PFS



AROVI® **120mg/0.8ml**
Pack of 10 PFS



AROVI® **150mg/1ml**
Pack of 10 PFS

- Each PACK is color coded with a different color to avoid prescription and dispensing errors.





AROVI® **20mg/0.2ml**
Pack of 10 PFS



AROVI® **40mg/0.4ml**
Pack of 10 PFS



AROVI® **60mg/0.6ml**
Pack of 10 PFS



AROVI® **80mg/0.8ml**
Pack of 10 PFS



AROVI® **100mg/1ml**
Pack of 10 PFS



AROVI® **120mg/0.8ml**
Pack of 10 PFS



AROVI® **150mg/1ml**
Pack of 10 PFS

- Each LABEL is color coded with a different color to avoid prescription and dispensing errors (example of PFS with activated device).





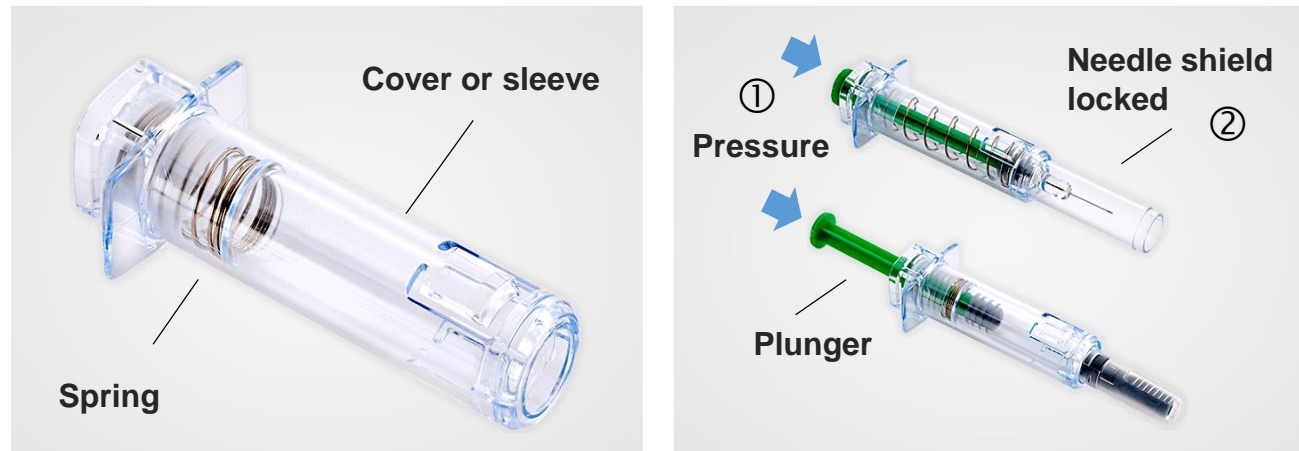
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made in Europe

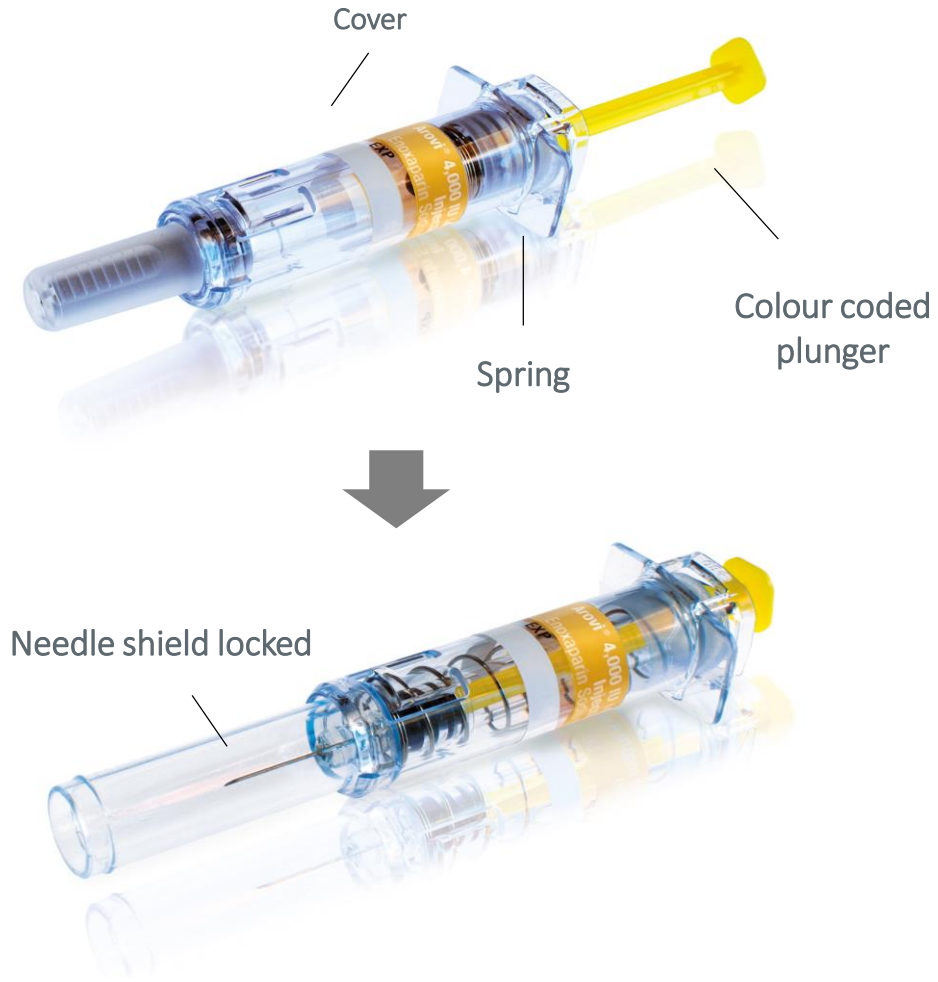
Safety Device



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- AROVI® includes the safety device **Preventis™** from **Becton Dickinson**
- Preventis™ is an **automatic** needle **shielding system**. It has a cover or sleeve that **extends over** the needle following injection.
- After the injection, further pressure on the plunger activates the spring causing the needle shield to automatically **lock into place**.





1 AROVI® 40mg **before** the injection

2 AROVI® 40mg **after** the injection with the needle shield locked into place.

AROVI® safety device is an "active" device versus other devices called "passive".

The difference is that with an **active device** the patient controls the activation of the safety system.

- 1 After the injection, **further pressure** on the plunger rod activates the spring causing the needle shield to automatically lock into place.
- 2 The protective sleeve will automatically cover the needle producing an **audible click**.





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Educational Materials



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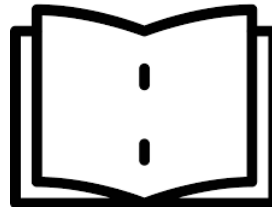
1

**A3 poster
(for the wards)**



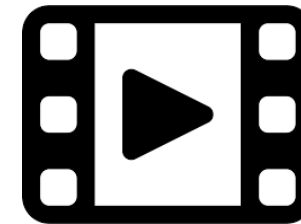
2

**A5 booklet
(for patients)**



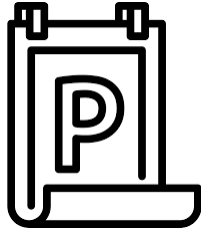
3

Video



Available under request “free of cost”





- Matt
- Laminated

← 29.7cm →



How should I inject AROVI®?



AROVI® Administration VIDEO
To watch this video scan the QR code or visit <https://www.aroivi.com/aroivi/en/education>

If you are able to give AROVI® 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. Please refer to the package insert before use of the product.

Follow these steps BEFORE the injection

- 1** First wash your hands with soap and water and dry them carefully.
- 2** Administration is done in a comfortable position. The injection is recommended in the area of the abdominal fat tissue, more than 5 centimeters from the navel. DO NOT inject in an irritated site, near a mole or scar. Select the injection site alternately on the left and right sides.
- 3** Cleanse the selected area with a skin antiseptic disinfectant before the injection.

AROVI® pre-filled syringe is now ready to be used

The subcutaneous injection technique

- 4** Remove the syringe from the individual packaging and remove the cap by pulling firmly. The air must not be removed from the syringe. If a drop appears at the end of the needle, it should be removed by shaking. The needle is sterile, do not wipe it at touch before use.
- 5** Make a skin fold in the abdominal area with forefinger and thumb. The skin fold must be maintained during the injection.
- 6** The entire length of the needle should be inserted VERTICALLY with a 90-degree angle into the skin fold. Slowly inject the contents by pushing the plunger towards the cylinder and maintaining the skin fold until the needle is removed at the end of the injection.
- 7** Remove the syringe while keeping your thumb on the plunger. To prevent bleeding, do not rub or scratch the puncture site after injection.
- 8** Check the syringe has been removed from the skin fold, press firmly on the plunger to activate the safety system. The protective cover encloses the needle with an audible CLICK that confirms the activation of the safety system.

Immediately the syringe must be discarded by threading it into the nearest sharps bin. The cartridge must be closed tightly and kept out of the reach of children. To prevent bruising DO NOT rub the injection site after administration.

AROVI® is available in a range of strengths:

- AROVI® 2000 IU (100 mg) x 10
- AROVI® 3000 IU (150 mg) x 10
- AROVI® 4000 IU (200 mg) x 10
- AROVI® 5000 IU (250 mg) x 10
- AROVI® 6000 IU (300 mg) x 10
- AROVI® 8000 IU (400 mg) x 10
- AROVI® 10000 IU (500 mg) x 10
- AROVI® 15000 IU (750 mg) x 10

What does AROVI® look like?

AROVI® is a clear, colorless to pale yellow solution in a pre-filled syringe fitted with an injection needle with a safety device. The pre-filled syringes are stored in plastic trays and carton boxes.

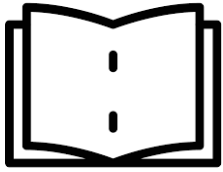
1x1 AROVI® pre-filled syringe is injected.

1x1 AROVI® pre-filled system with the activated protective sleeve **AROVI®** is injected.

↑ 42 cm ↓



2 – A5 BOOKLET – User Information Guide - AROVI®



14.8 x 21cm

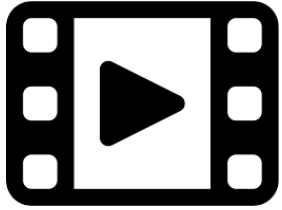
Stapled Booklet

8 pages



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3 – VIDEO – How to Inject - AROVI®



2 minutes

Public Access

<https://rovi.es/en/biosimilar-de-enoxaparina>

AROVI® Administration VIDEO

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Bioequivalence Study



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Drug Design, Development and Therapy

Dovepress

open access to scientific and medical research

Open Access Full Text Article

ORIGINAL RESEARCH

Bioequivalence of a biosimilar enoxaparin sodium to Clexane® after single 100 mg subcutaneous dose: results of a randomized, double-blind, crossover study in healthy volunteers

This article was published in the following Dove Press journal:
Drug Design, Development and Therapy

Javier Martínez González
Mayte Monreal
Ignacio Ayani Almagia
Jordi Llaudó Garín
Lourdes Ochoa Díaz de
Monasterioguren
Ibón Gutierrez Adúriz

R&D Department, Laboratorios
Farmacéuticos Rovi S.A., Madrid, Spain

Purpose: To demonstrate the pharmacokinetic/pharmacodynamic (PK/PD) equivalence of a biosimilar enoxaparin to the reference drug, and to assess its safety and tolerability in healthy volunteers.

Patients and methods: A randomized, double-blind, crossover, 2-sequence, single-dose study was conducted in healthy volunteers of both sexes. Participants were sequentially and randomly administered single subcutaneous injections of enoxaparin 100 mg manufactured by Rovi (test; Madrid, Spain) and Clexane® (enoxaparin 100 mg manufactured by Sanofi, reference) separated by a 1-week washout period. The primary PK/PD variables were maximum activity (A_{max}) and area under the effect curve from time 0 to the last measured activity (T) ($AUEC_{0-T}$) and $AUEC$ from time 0 to infinity ($AUEC_{0-inf}$) of anti-FXa activity, and A_{max} and $AUEC_{0-T}$ of anti-FIIa activity. Secondary variables were A_{max} and $AUEC_{0-T}$, $AUEC_{0-inf}$ of tissue factor pathway inhibitor, and the ratio of $AUEC_{0-T}$ anti-FXa to anti-FIIa activity. Biosimilarity would be shown when the 95% CI of the ratio of geometric least squares means (95% CI RGLSMs) of primary PK/PD parameters fell within the standard range of bioequivalence, ie, 80%–125%.

Results: The study sample consisted of 46 volunteers (33 males) aged 18–44 years and with body mass index ranging from 19.0 to 31.1 kg/m². Three subjects did not complete the study. The curves of anti-FXa, anti-FIIa and tissue factor pathway inhibitor activities corresponding to administration of the test and reference products were comparable. The 95% CI RGLSMs of A_{max} , $AUEC_{0-T}$ and $AUEC_{0-inf}$ for anti-FXa activity were 94.6%–105.9%, 99.8%–108.0% and

AROVI® is biosimilar to the innovator Clexane®

Available here:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5865560/pdf/dddt-12-575.pdf>



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