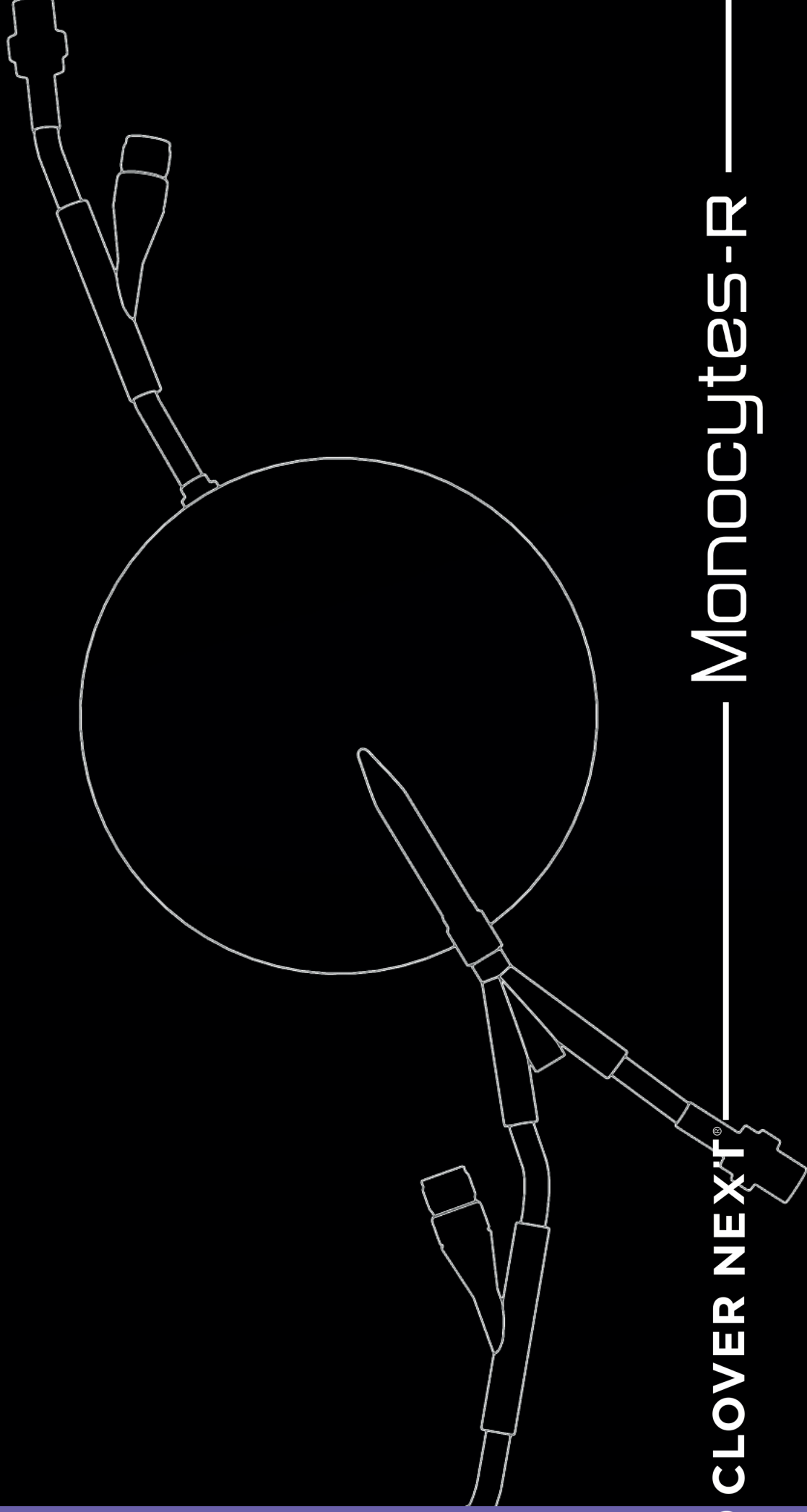
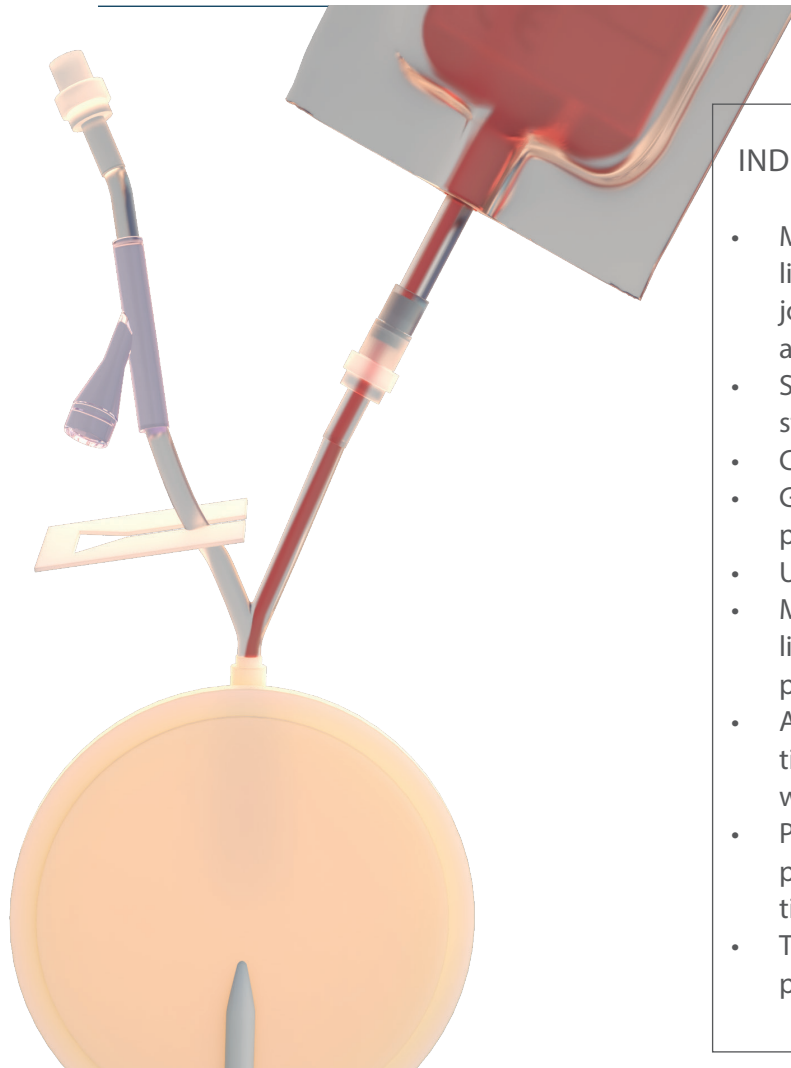




● CLOVER NEXT[®] — Monocytes-R —



INDICATIONS FOR USE – MONOCYTES-R :

- Musculoskeletal disorders: tendinopathies, tendon and ligament injuries; symptomatic treatment of inflammatory joint disorders (arthritis) and cartilage lesions, also in association with hyaluronic acid.
- Spinal surgery: discopathies and lumbar and cervical stenosis in the early stage, low back pain and cervical pain.
- Coloproctology: Crohn's disease.
- Gynecology: infertility and support of tissue regeneration processes.
- Urology: erectile dysfunction.
- Management of complex wounds: diabetic foot, ischemic limb, ulcers and wounds, with support of tissue regeneration processes.
- Aesthetic medicine: stimulation of the regeneration of tissues damaged or deteriorated by aging; use in association with hyaluronic acid or autologous adipose tissue.
- Plastic surgery: scars and support to plastic surgery to promote the recovery of wounds and scars; use for deep tissue regeneration.
- Trichology: androgenetic alopecia in the early stage and post-transplant phase, to promote graft take.

MONONUCLEAR CELLS FROM PERIPHERAL BLOOD

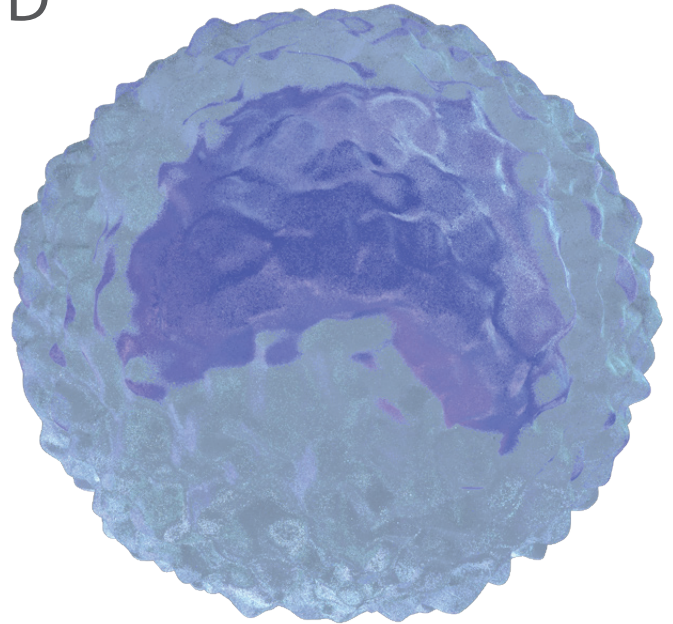
Monocytes and lymphocytes are large white blood cells and account for 1% to 6% of this cellular population present in the bloodstream.

These cells are produced in the bone marrow from hematopoietic stem cells and perform several important functions:

- Monocytes are known for their ability to ingest and destroy pathogenic microorganisms, foreign particles and cellular debris, initiating a specific immune response.
-
- Monocytes, once differentiated into macrophages, play a crucial role in improving functionality and promoting the formation of new blood vessels.
-
- These cells release signaling molecules capable of profoundly modulating inflammatory processes, triggering tissue regeneration.

DIFFERENCE BETWEEN MONONUCLEAR CELLS AND PLATELETS

Platelets are small anucleated cells present in the blood that, through the release of growth factors and cytokines, help reduce inflammatory processes and stimulate tissue regeneration.

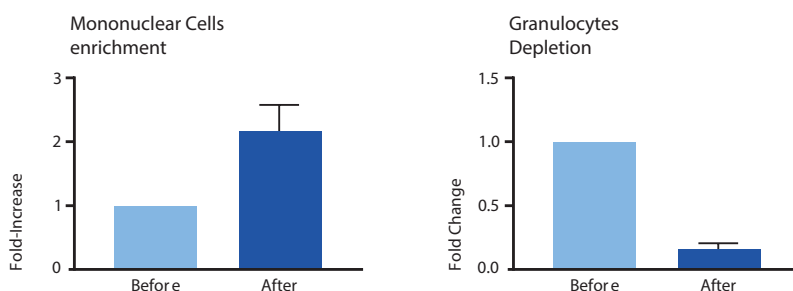


EFFECTIVE, FAST AND SAFE PROCEDURE

Monocytes-R is the only closed-circuit device that enables the retrieval of mononuclear cells and growth factors from peripheral blood in a fast, reproducible manner and without the need for centrifugation.

This minimizes cellular stress, reduces the risk of contamination, and allows the procedure to be performed simply and sustainably.

The resulting cellular concentrate contains three times the initial number of cells and a 2/3 reduction in pro-inflammatory granulocytes.



Dopo la processazione di Monocytes il sangue risulta arricchito di cellule mononucleari (monociti e linfociti) con una riduzione significativa dei granulociti (neutrofili, eosinofili, basofili).

TECHNIQUE

1 - Collection

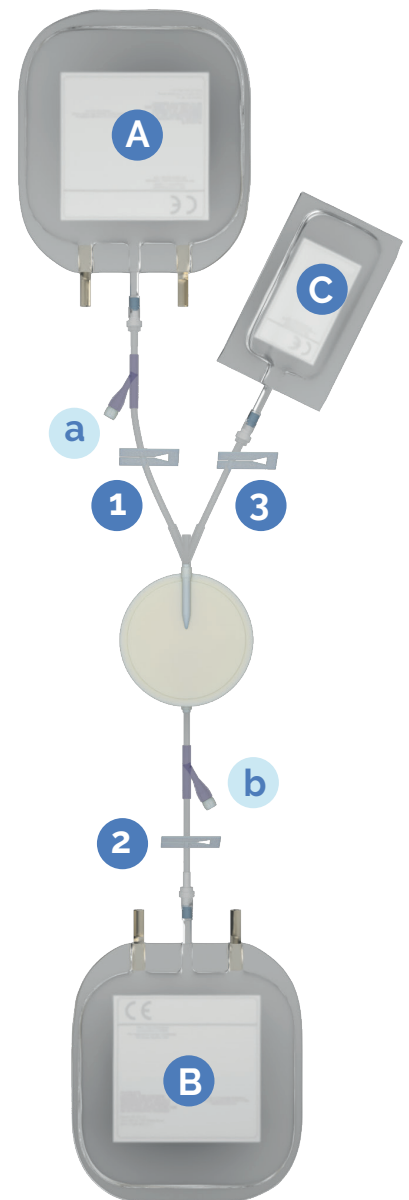
Open the kit in the sterile field and assemble it as illustrated.
Load the collection syringes with 10% anticoagulant (ACD-A): that is, 6 ml for every 60 ml of blood.
The recommended collection volume is 120 ml.
Clean the collection site and, using the dedicated cannula needle, draw the required volume of peripheral blood.

2 – Processing

Hang the kit on an IV stand, keeping the upper bag (A) elevated.
Introduce the collected blood through the upper connector (a) to fill bag (A), and activate the filter circuit by opening the designated clamps (1 and 2).
Wait until all the blood has passed through and fully cleared the filter.
At this point, the waste is deposited in the lower bag (B), while the cells remain trapped inside the filter.

3 - Recovery

Close clamps (1 and 2) to exclude the filter circuit.
Open the side clamp (3).
Aspirate 10 ml of sterile saline with a syringe and connect it to the lower side port (b).
Gently inject the sterile saline.
Once the filter back-flushing operation is complete, retrieve the content from the collection bag © with a new syringe.





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09/02/26



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