



**So your body
can keep taking
you down
*the path
you choose***



Regenerative Medicine
Autologous Cytokine Rich Serum
(ACRS)

QREM® CYTOKINE

www.qrem-regenerative.com

Another step forward in regenerative medicine

Regenerative therapies using stem cells, adipose tissue cells and/or growth factors **have seen very promising results in treating osteoarthritis, tendinopathy and sports injuries, among other conditions.**

Recently, we've taken another step forward using cytokines, the proteins that direct cells in the regeneration process.

ACRS (Autologous Cytokine Rich Serum) contains cytokines that take part directly in tissue repair.

Citokines.

The language of our cells

Cytokines are proteins released by blood cells and platelets. These proteins are the messages used by cells to heal injuries and keep our bodies in good working order.

There are several families of cytokines, including pro-inflammatory cytokines, which promote inflammation; anti-inflammatory cytokines, which have the opposite effect, and growth factors, which stimulate tissue repair.

Our bodies need a good balance of all these cytokines. When this balance is off, tissues begin to deteriorate. ACRS provides the cytokines needed to help restore this balance.


Qrem Cytokine

Lab-in-a-Box technology, fast and safe

Autologous Cytokine Rich Serum (ACRS) is obtained using the Qrem Cytokine device that incorporates advanced Lab-in-a-Box technology.

Qrem Cytokine is a novel device to obtain the cytokines involved in tissue regeneration.



- 
No medication
- 
Naturally activated
- 
Another step forward in regenerative medicine
- 
Lab-in-a-Box technology

Using the patient's own blood, ACRS is obtained through a patented biological process that emulates tissue damage ex vivo.

Lab-in-a-Box technology guarantees the ACRS is sterile throughout the process and can be used right in the physician's office.

It is fast, so the doctor can administer the ACRS during the first visit. This avoids any risks that may come from storing this type of biological product.

The ACRS obtained helps activate the body's own repair system, providing the cytokines missing in the injured, worn or deteriorated tissue.

Benefits of Qrem Cytokine and how it works

Treatment with ACRS does not require a surgery room. It can be provided in the physician's office and consists of **3 very simple steps**:

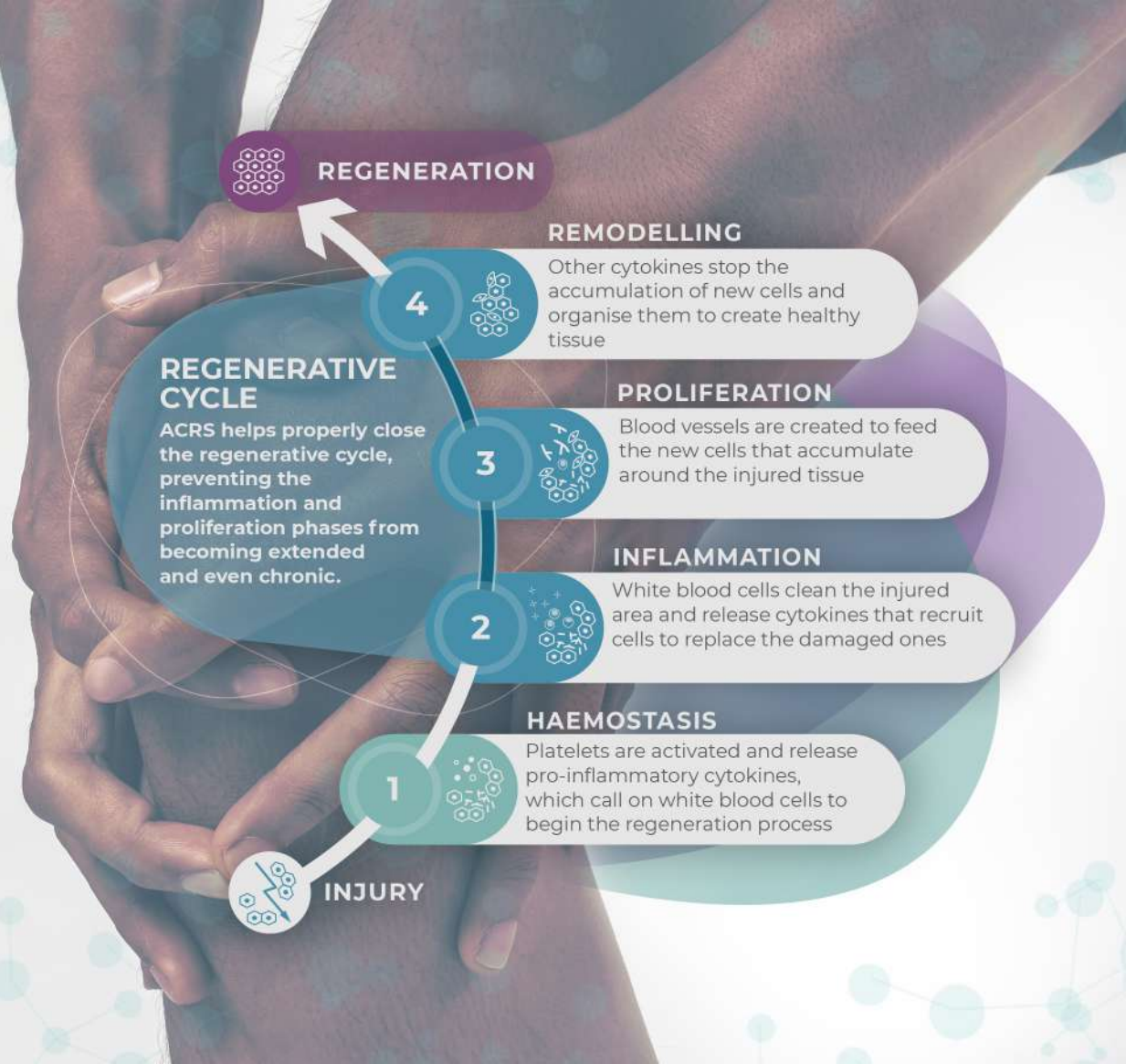
- 1** Blood is drawn from the patient, just like for blood tests.
- 2** The patient has to wait 36 minutes while the ACRS is obtained using Qrem Cytokine technology.
- 3** The physician then injects the ACRS into the area to be treated, and the patient can go home immediately.

ACRS activates the repair system to:

- Decrease inflammation
- Reduce pain long-term
- Improve mobility and function in the area treated
- Delay tissue deterioration (for example, cartilage)

ACRS doesn't have the side effects common in other treatments that only target the pain.

There's no risk of rejection and it can be administered several times.





Regenerative Medicine

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Medical center details

Guide for healthcare professionals for patients information purpose
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