

irap™ therapy

Producing the body's own medicine.



This Product for
Veterinary Use Only

Caution: Federal law restricts this
device to sale by or on the order
of a veterinarian.



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Therapeutic proteins from the patient... for the patient.

irap™ therapy utilizes your patient's own blood and natural healing mechanisms. The patented irap syringe produces autologous conditioned serum (ACS), which contains active quantities of anti-inflammatory and regenerative cytokines.

How does it work?

The irap syringe contains specially treated glass beads that stimulate the white blood cells to produce the anti-inflammatory and regenerative cytokines. The whole blood is incubated overnight and then centrifuged to collect serum. The serum produced is then re-injected into the patient.



Has it been tested?

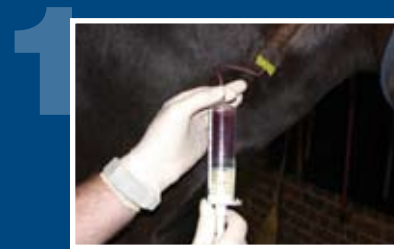
The patented irap therapy has been used safely and effectively in thousands of horses around the world.

In a controlled study at Colorado State University*, results indicated that there was significant clinical and histologic improvement in osteoarthritis-affected joints of horses following treatment with ACS, compared with placebo treatment. Horses treated with ACS had significant clinical improvement in lameness, unlike the placebo group.

irap therapy has been used to treat a variety of inflammatory conditions:

- Joint lameness
- Tendon and ligament injuries
- Muscle injuries

*Frisbee D, Kawcak C, Werpy N, Park R, Mcllwraith W: Clinical, biochemical, and histologic effects of intra-articular administration of autologous conditioned serum in horses experimentally induced osteoarthritis. *Amer Jour Vet Research*, Vol 68, No. 3, 2007.



- Blood collection with irap™ 50 ml-syringe under routine aseptic conditions
- 1-2 syringes are required per patient
- Label syringe with patient data



- Process each patient's blood separately
- Incubate syringe at 98.6°F (37°C) for 24 hours



- Load centrifuge symmetrically
- Centrifuge incubated syringe 10 minutes at 3700 rpm



- Maintain an aseptic environment
- Disinfect syringe thoroughly
- Carefully aspirate serum with 20 ml-syringe



- Divide autologous conditioned serum through filter/adaptor into 5 ml-syringes
- Close 5 ml-syringes with sterile caps



- Immediately label 5 ml-syringes with patient data
- Keep all syringes of one patient in a store-package at -0.4°F (-18°C) until use
- Shelf life: at least 7 months