



**REGENESIS VET™**  
**R.I.A.D™**  
FREQUENTLY  
ASKED QUESTIONS

## FAQ'S

### 1. What actually is Regenes Vet™ R.I.A.D™ & why is it so unique?

Regenes Vet™ R.I.A.D™ is a targeted cytokine therapy product. The Regenes Vet™ R.I.A.D™ system is the first commercially-available systemic (whole-body) regenerative equine treatment derived from a unique provisionally-patented system of processing autologous blood. This means that it is the only regenerative product that is currently commercially available that has been designed for systemic (whole-body) use. This means it is either injected into the muscle or vein by your vet as opposed to into the injury site (local use).

The primary type of cell that is involved in the healing of our bodies are called "cytokines". These cytokines are also sometimes referred to as growth factors or healing factors. The uniqueness of the Regenes Vet™ R.I.A.D™ system lies in its ability to target and harvest 4-6 very specific "good" cytokines that are instrumental in healing whilst simultaneously filtering out almost all the "bad" cytokines that cause damage and inflammation. Given that the body does not usually release these healing factors unless there is a very high level of inflammation present, our system is able to do so in a safe way outside of the horse's body before an injury and its associated inflammation happens. Through this, we are able to create an affordable natural (non-doping) regenerative product that leverages off the body's ability to heal itself.

### 2. What benefits can one expect from the Regenes Vet™ R.I.A.D™ product?

To date we have processed over 2 000 injections. The most common feedback we receive in terms of how horses have benefited from Regenes Vet™ system is outlined below:

- Accelerated healing following injury
- Improvement in condition, coat and muscle tone
- Improved immune and stress related responses
- Improved suppleness and soundness
- Less frequent use of invasive treatments (e.g. Intra-articular injections)
- Improved performance
- Faster recovery after exercise

Although Regenes Vet™ R.I.A.D™ has been shown to be beneficial for many horses, please note that it is not a substitute for a balanced diet, a good farrier, a suitable work programme, physio, issue-specific injections or a holistic management program designed by your vet.

### 3. How does Regenes Vet™ R.I.A.D™ differ to other regenerative treatments/Orthobiologics (IRAP, PRP, Platelet Lysate)?

There are various differences between Regenes Vet™ R.I.A.D™ and other Regenerative treatments. The first difference lies in its intended route of administration. Regenes Vet™ R.I.A.D™ has been designed, developed and tested for systemic (whole-body) use. This means that Regenes Vet™ R.I.A.D™ has been designed for administration into the body through a vein and/or muscle as per your vet's recommendation. The Regenes Vet™ system is the only regenerative treatment currently available that has been designed for this route of administration. The Regenes Vet™ R.I.A.D™ product differs substantially from other regenerative products. Other regenerative products that are available are described below after which their differences to Regenes Vet™ R.I.A.D™ are highlighted.

**Platelet Rich Plasma (PRP)** systems are solely focused on obtaining and concentrating as many platelets from the blood as possible. These platelets are then injected into or surrounding an injury site where they slowly release various growth factors over ±7 days after they have been injected. Unfortunately, in many cases, either a threshold number of platelets are not harvested or most of the platelets die shortly following injection. This unfortunately often leads to very inconsistent results. Another problem with PRP is the lack of consistency in the amount and type of healing and growth factors released by the platelets. It is not uncommon for too many pro-inflammatory factors to be released which leads to a strong inflammatory response and a significant amount of pain. PRP cannot be given intravenously due to the risk of clotting being too high. Another regenerative treatment available is **Platelet Lysate**. Traditional Platelet Lysate is made from a freeze-thaw process that aims to lyse ALL the growth factors from the platelets. Unfortunately, platelets house both "good" anti-inflammatory growth factors as well as "bad" pro-inflammatory growth factors. With traditional platelet lysate systems, one risks harvesting

an overabundance of "bad" growth factors as one is unable to control which growth factors are harvested with these systems. In extreme cases, this could lead to a cytokine storm. Too many bad growth factors can lead to an unbalanced growth factor profile in a patient which may result in long-term adverse outcomes such as the growth of cancer, increased inflammation and disease progression. There are however a small number of very sophisticated platelet lysate systems in parts of the world that do show promise for intra-articular treatment of very specific injuries but at an exorbitant expense. These systems make use of artificial intelligence and expensive filtering and treatment techniques of the final product to try reduce these risks associated with an overabundance of pro-inflammatory growth factors.

**Interleukin-1 Receptor Antagonist Protein (IRAP)** is one of the more sophisticated regenerative treatments available. This product makes use of advanced technology to harvest very specific regenerative and anti-inflammatory cytokines from horses blood. However, the cytokines targeted by IRAP are only effective when injected into the site of injury where they bind to the interleukin-1 receptors. This in turn suppresses the action of the chemicals that are responsible for ongoing pain, inflammation and lameness. Through this mechanism of action, IRAP is only suited for intra-articular use.

So how is Regenesis Vet™ R.I.A.D™ fundamentally different to the above? As we can see, with our other blood derived regenerative products a key issue is the lack of consistency between the cytokines that are harvested and the risks that come with an overabundance of the "bad" pro-inflammatory cytokines. Not only is the Regenesis Vet™ R.I.A.D™ the only one of these treatments that can be given systemically (through the vein/muscle), but it is also the only product that overcomes the abovementioned challenges. Being a systemic product, the treatment also is significantly less risky than injecting directly into a joint and therefore has little to no downtime.

#### 4. What research has been done on the Regenesis Vet™ R.I.A.D™ system?

The Regenesis Vet™ system has been undergoing continuous research and development for nearly five years now since the first generation of the product in early 2018. The system was only officially commercialized in late 2020 after nearly three years of research and development. Our research and development is currently headed up by leading biomedical scientist Dr Judey Pretorius (PhD Drug Development & Design).

In terms of research, the Regenesis Vet™ R.I.A.D™ system has been researched and subsequently developed by a number of leading biomedical scientists. Both our own R&D team, independent accredited third party researchers and university researchers have been able to validate that the Regenesis Vet™ R.I.A.D™ system is capable of concentrating a number of "good" cytokines whilst filtering out most of the "bad" ones through extensive growth factor panel testing. This involves testing a panel of 20-30 growth factors across numerous samples (horses) and both measuring and quantifying the increase or decrease in certain growth factors in the end product. Through this, we have been able to prove that our system consistently raises the 4-6 of the "good" growth factors that we target by a statistically significant amount whilst simultaneously filtering out almost all the "bad" ones.

#### 5. How often does my horse need to receive Regenesis Vet™ R.I.A.D™?

The frequency of Regenesis Vet™ R.I.A.D™ treatments may differ from horse to horse. Some vets may choose to put horses on a once-off course, whilst others may advise that horses receive Regenesis Vet™ R.I.A.D™ continuously on a monthly basis. It is imperative that you work with your veterinarian to design a Regenesis Vet™ treatment plan that is tailor-made to you and your horse's needs. This is to ensure that the maximum benefit is derived from the treatments on a case-by-case basis. The Guidelines for Administration and Dosing can be found on our website along with the full list of our partnering veterinarians.

#### 6. Are there any risks associated with Regenesis Vet™ R.I.A.D™?

Although autologous blood products are generally considered very safe, with any medical procedure, there is always the risk of side effects. As with many treatments, Regenesis Vet™ R.I.A.D™ can illicit an immune response within the horse's body and as such, although uncommon, minor side effects can occur. It is for this reason that it is imperative that your vet is involved in the administration of any and all treatments such that should any side effects occur, they can be appropriately managed.

For more information on adverse events and the steps that can be taken to reduce the risk of them occurring please read the full prescribing information listed on our website.

#### 7. How do I get a hold of Regenesis Vet™ R.I.A.D™? What do I do if my vet does not currently offer Regenesis Vet™ R.I.A.D™?

Regenesis Vet™ R.I.A.D™ is exclusively available through veterinarians. Please contact your vet directly to get hold of Regenesis Vet™ R.I.A.D™ for your horse. The full list of our partnering veterinarians can be found on our website.

Regenesis Vet™ strongly encourages all owners to try keep their horse's treatments with their normal treating vet. Should your vet not offer Regenesis Vet™ R.I.A.D™ at this stage, we will gladly make contact with them to discuss the possibility of offering it in their practice going forward. Should this be the case, please email us at [info@regenesisvet.com](mailto:info@regenesisvet.com).