

Based on research data, these are the current recommended Best Practices for the use of Alpha2EQ™.

- If sedation is needed prior to the blood draw for Alpha2EQ, it is recommended to using IM sedation and draw the blood as soon as possible.
- Regional limb blocks or intra-articular blocks are not contraindicated prior to blood draw. However, we recommend waiting 24-48 hours after intra-articular anesthesia before injecting the joint with Alpha2EQ.
- After blood is drawn for processing Alpha2EQ, sedation and non-steroidal anti-inflammatory drugs may be administered.
- There are no reported negative interactions with shockwave or laser light therapies.

Off-site collection and processing:

- If collecting in the field and transporting to a clinic for delayed processing, we recommend protecting the syringes to maintain sterility, keeping the syringes cool, and rocking throughout the transportation. The blood should be processed within 2 hours.
- Once processed, the Alpha2EQ product is stable at room temperature for 4 hours, or refrigerated for up to 8 hours. Any product not used at the time of processing should be frozen as soon as possible. Frozen injectate should be thawed prior to use.
- Once thawed, Alpha2EQ injectate must be used within 4 hours. Alpha2EQ injectate should not be frozen a second time.

Horses used for rigorous athletic events (e.g., racing, high level sport horses and western performance horses) and those horses with chronic inflammatory joint conditions benefit from a series of Alpha2EQ injections at 2–4-week intervals

Volume for Injections:

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| • Cervical Facets: 1-3 mL | • Intra-lesional/ Peri-lesional: varies on site |
| • Digital sheath: 4-6 mL | • Navicular Bursa: 2-3 mL |
| • DIP Joint: 3-5 mL | • Tibiotarsal Joint: 4-5 mL |
| • Fetlock/Carpal Joints: 3-5 mL | • Small Tarsal Joints: 2-3 mL |
| • Elbow: 4-5 mL | • SI: 8-10 mL per side |
| • Shoulder: 5-6 mL | • Stifle Medial Femoral Tibial: 6-8 mL + |

Clinical Use Protocol Using Alpha2EQ™ for Equine Asthma.

The following is the recommended protocol for using Alpha2EQ™ for managing horses with equine asthma:

- Use the standard protocol for processing the horse's blood using the Alpha2EQ™ system
- The generated product should be divided into 3 mL aliquots, with all but the initial dose frozen for use at subsequent dosing
- If the horse is currently being treated for equine asthma, the horse can remain on that treatment regimen while introducing Alpha2EQ™
- The horse should receive a total of 6 nebulizations at 48-hour intervals
- Each nebulization will consist of 3 mL of Alpha2EQ™ diluted with 3 mL of sterile saline or Lactated Ringer's Solution (LRS) for a total volume of 6 mL
- Some horses can be weaned off previous medications after the initial Alpha2EQ™ treatment series is completed
- Our studies were done using a Flexineb™ nebulizer. It is recommended that the nebulization be done while hand walking the horse

After the initial series of nebulizations, if not prohibited by rules regarding administration times, horses that are actively competing can receive an additional single nebulization (3 mL Alpha2EQ™ + 3 mL saline/LRS) prior to competition. This has been helpful for some horses that experience exercise induced pulmonary hemorrhage (EIPH).

More severely affected horses with asthma have benefited from single nebulizations of Alpha2EQ™ at approximately one-month intervals following the initial series of six nebulizations. Horses with large amounts of mucous may respond to Alpha2EQ™ better if appropriate steps are taken to minimize mucous prior to nebulizing (e.g., administering mucolytics). If you have questions or for more information, please contact Astaria Global at info@astariaglobal.com.