

The Science of Exceptional

When equine influenza virus (EIV) is in the air, give horses

Flu Avert I.N.TM

The **ONLY** modified-live virus (MLV) intranasal equine influenza vaccine on the market

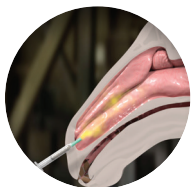
Intranasal (IN) vaccination offers a range of benefits

- Stimulates both innate¹ and adaptive immune responses² for **3 LEVELS OF PROTECTION**:
 - ① Mucosal immunity
 - ② Humoral immunity²
 - ③ Cell-mediated immunity²
- **Rapid onset of immunity** – 5–7 days in naïve animals^{3,4}
- **No muscle soreness or injection site reactions**



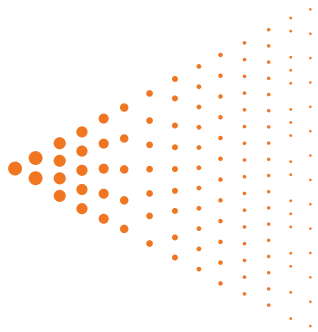
Get all this and more with Flu Avert I.N.TM

- Very well tolerated^{2,5}: **NO ADVERSE REACTIONS** in a study of 90 eleven-month-old foals⁵
- Just **ONE DOSE** confers a duration of immunity (DOI) of at least **6 months**
- Has **NO** adjuvants or preservatives
- Approved for the vaccination of healthy horses **11 months of age or older**
- Effective against **disease caused by EIV**
- Also effective against **virus shedding of EIV**



As a MLV replicating vaccine, **Flu Avert I.N.TM** provides a **broader scope of cross-protection** to other EIV strains than inactivated vaccines, for coverage that's **less susceptible to the consequences of antigenic drift**⁶

Discover the **Flu Avert I.N.™** atomizing applicator



Delivers the vaccine in a **much smaller particle size** than with our previous applicator, which **improves the immune response** by **enhancing distribution and contact** with the nasal and pharyngeal mucosa

Is **well tolerated by horses**, reducing the need for restraint

Attaches to a luer-lock syringe, just 1 inch long x ¼ inch wide

Flu Avert I.N.™: One Powerful Dose of Immunity...

- When there's an **EIV OUTBREAK**
 - The AAEP infectious disease control guidelines state:
"If animals are unvaccinated prior to an outbreak, the use of a modified live intranasal vaccine may be recommended to achieve protection within 5 days of primary administration"⁴
- For horses that need **STAND-ALONE EIV** protection
- As a **BOOSTER**



For combination protection against multiple pathogens, ask about our **PRESTIGE®** line of equine vaccines.

To find out more about **Flu Avert I.N.™**, or for technical support, please contact your Merck Animal Health representative at **1-866-683-7838**, or go to www.merck-animal-health.ca.

Always read and follow the label instructions to ensure this product is suitable for the animal to be vaccinated.

1. Koch DW, et al. Innate Immune responses of primary equine influenza respiratory epithelial cells to infection with a modified-live or wild-type equine influenza virus. Poster presented at: 3rd International Symposium on Neglected Influenza Viruses, 15-17 April 2015, Athens, Georgia, USA.
2. Paillot, R. A Systematic Review of Recent Advances in Equine Influenza Vaccination. *Vaccines (Basel)* 2014; 2(4):797-831. doi: 10.3390/vaccines2040797.
3. American Association of Equine Practitioners. Vaccination guidelines. *Equine Influenza*. Available at: <https://aaep.org/guidelines/vaccination-guidelines/risk-based-vaccination-guidelines/equine-influenza>. Accessed May 6, 2022.
4. American Association of Equine Practitioners. *AAEP Infectious Disease Control Guidelines on Equine Influenza*. Available at: https://aaep.org/sites/default/files/Documents/EQUINE%20INFLUENZA_Final.pdf. Accessed May 6, 2022.
5. Townsend, HG, et al. Efficacy of a cold-adapted, intranasal, equine influenza vaccine: challenge trials. *Equine Vet J* 2001 Nov; 33(7):637-43.
6. Chambers TM, et al. A new modified live equine influenza virus vaccine: phenotypic stability, restricted spread and efficacy against heterologous virus challenge. *Equine Vet J* 2001; 33(7):630-6.

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