



## Parenteral vaccines can leave dogs vulnerable to widespread canine parainfluenza virus (CPIV).<sup>1-3</sup>

Parenteral vaccines do not effectively reduce shedding or infection.<sup>4-7</sup>

- **MORE THAN 30% OF DOGS** tested positive for CPIV in clinical diagnostic samples submitted to Cornell Diagnostic Laboratory.<sup>2\*</sup>

**TIME TO ASK IF YOUR PATIENTS ARE REALLY PROTECTED AGAINST CPIV.**

### Dogs parenterally vaccinated against CPIV:

Have been shown to develop respiratory disease caused by CPIV infection<sup>1</sup>

1

Have been shown to spread the virus to other dogs with no direct contact<sup>1</sup>

2

May be vulnerable to other pathogens, which can cause more severe respiratory disease and occasionally death<sup>5,8,9</sup>

3

Intranasal administration allows you to provide a step above parenteral CPIV protection.



**PREVENTS  
SHEDDING**<sup>6,7,10</sup>



**REDUCES  
INFECTION**<sup>6,7,10</sup>

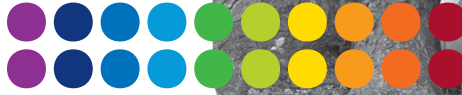


**REDUCES  
DISEASE**<sup>6,7,10</sup>

**Nobivac<sup>®</sup> Intra-Trac<sup>®</sup><sub>3</sub> provides essential intranasal protection against CPIV, as well as *Bordetella* and canine adenovirus type 2.**

# Nobivac<sup>®</sup>: Intra-Trac<sup>®</sup><sub>3</sub>

\* While it is likely that most diagnostic samples were obtained from dogs exhibiting clinical signs of respiratory disease, individual sample origin or reason for sampling is not available.



## Nobivac<sup>®</sup> Intra-Trac<sup>®</sup><sub>3</sub> ADT—featuring advanced delivery technology.

A more convenient way to provide the benefits of intranasal delivery.

- Needleless
- Single-nostril administration
- Small-volume dose

**UNIQUE**  
ADVANCED DELIVERY  
TECHNOLOGY (ADT)  
eliminates the possibility  
of accidental injection.



Not all vaccines provide essential protection against the 3 key pathogens in the canine infectious respiratory disease complex.

	Bordetella	Adenovirus Type 2	Parainfluenza
<b>Nobivac<sup>®</sup> Intra-Trac<sup>®</sup><sub>3</sub> ADT</b>	●	●	●
Bronchi-Shield <sup>®</sup> ORAL	●		
Bronchi-Shield <sup>®</sup> III	●	●	●
Bronchicine <sup>®</sup> CAe (injectable)	●		
Vanguard <sup>®</sup> -B	●		



To learn more, contact your Merck Animal Health sales representative, visit [www.merck-animal-health-usa.com](http://www.merck-animal-health-usa.com), or give us a call.

Customer Service **1-800-521-5767**  
(Monday – Friday, 8:00 am – 6:00 pm EST)

Technical Services **1-800-224-5318**  
(Monday – Friday, 8:30 am – 5:00 pm EST)

Vaccine Protocol Help Line **1-866-437-7955**  
(Monday – Friday, 8:00 am – 5:00 pm EST)

**References:** 1. Weese JS, Stull J. Respiratory disease outbreak in a veterinary hospital associated with canine parainfluenza virus infection. *Can Vet J.* 2013;54(1):79–82. 2. Cohn LA. Canine infectious respiratory disease complex: editorial review [white paper]. September 2013. Available at [http://www2.smartbrief.com/hosted/sp4485/Cohn-CIRD\\_Editorial-Review.pdf](http://www2.smartbrief.com/hosted/sp4485/Cohn-CIRD_Editorial-Review.pdf). Accessed October 24, 2013. 3. Schultz RD. Canine infectious respiratory disease complex (CIRDC) with an emphasis on canine influenza virus (CIV). In: Proceedings of the Animal Care Conference, 24–26 February 2013; Sacramento, CA. 4. Venker-van Haagen AJ. Diseases of the trachea and bronchi. In: Proceedings of the World Congress WSAVA/FECAVA/CSAVA; 11–14 October 2006, Prague, Czech Republic. 772–774. 5. Buonavoglia C, Martella V. Canine respiratory viruses. *Vet Res.* 2007;38(2):355–373. 6. Welborn LV, DeVries JG, Ford R, et al. American Animal Hospital Association (AAHA) Canine Vaccination Task Force. 2011 AAHA canine vaccination guidelines. *J Am Anim Hosp Assoc.* 2011;47(5):1–42. 7. Kontor EJ, Wegrzyn RJ, Goodnow RA. Canine infectious tracheobronchitis: effects of an intranasal live canine parainfluenza-Bordetella bronchiseptica vaccine on viral shedding and clinical tracheobronchitis (kennel cough). *Am J Vet Res.* 1981;42(10):1694–1698. 8. Ellis JA, Krakowka GS. A review of canine parainfluenza virus infection in dogs. *J Am Vet Med Assoc.* 2012;240(3):273–284. 9. Crawford PC, Sellon RK. Canine viral diseases. In: Ettinger SJ, Feldman EC, eds. *Textbook of Veterinary Internal Medicine: Diseases of the Dog and Cat.* 7th ed. St. Louis, MO: Saunders/Elsevier; 2010:958–971. 10. Data on file, Merck Animal Health.

