

INTRODUCING

Nobivac® Intra-Trac® Oral BbPi

twist, **MIST**, and go!

— The first-ever —
oral *Bordetella bronchiseptica* (Bb)
and parainfluenza virus (Pi) vaccine

Just twist and mist for
revolutionary protection and comfort.



— INNOVATIVE —
IMMUNO-MIST-R™
TECHNOLOGY

Nobivac®
Protection unites us.

For illustration purposes only. Refer to product insert
for complete administration instructions.

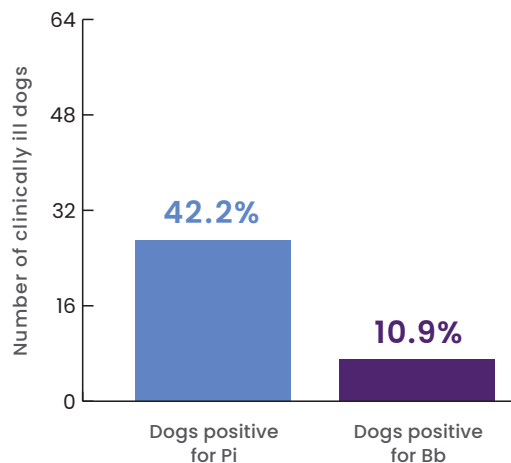
 **MERCK**
Animal Health

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Nobivac® Intra-Trac® Oral BbPi

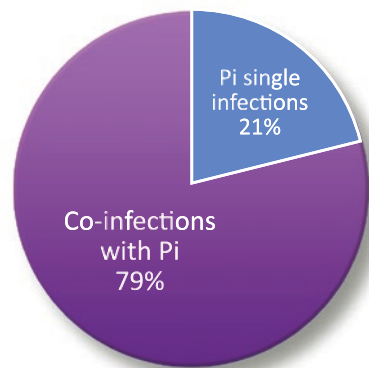
TWO-IN-ONE protection

Bordetella bronchiseptica (Bb) and parainfluenza (Pi) virus are two of the most common pathogens associated with canine infectious respiratory disease complex (CIRDC).



Vaccinating against Bb alone may not be enough.

In a Canadian study, PCR testing of 64 dogs with signs of CIRDC showed that, of the respiratory pathogens we routinely vaccinate against, Pi was the most common.¹



Pi often presents with co-infections, which can increase disease severity²

Recent respiratory PCR data from the US shows that the majority of dogs that tested positive for Pi presented with co-infections.³

CIRDC is a highly contagious multifactorial complex that can affect all dogs. The more social a dog's lifestyle is, the greater their risk is for infection.



DOGS ARE AT RISK IN EVERYDAY LOCATIONS

Dog parks | Pet playdates | Family gatherings | Social outings



Use of oral and injectable vaccines that **only** protect against Bb are not recommended.⁴



Until now, mucosal protection against Pi was only available from intranasal vaccines, **which some dogs resist.**



Nobivac® Intra-Trac® Oral BbPi is the **first oral combination vaccine** to protect against both Bb and Pi.

AN ORAL COMBINATION Bb AND Pi VACCINE HAS NEVER BEEN POSSIBLE...UNTIL NOW.

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Nobivac® Intra-Trac® Oral BbPi

ADMINISTRATION is a breeze

The patented Immuno-Mist-R™ applicator creates a fine mist for broad mucosal surface area contact.



Our proprietary formulation induces revolutionary mucosal coverage in an oral combination



MUCOSAL VACCINES

Vaccines that stimulate production of antibodies at the mucosal surface neutralize the pathogen before it enters the body, like a guard dog protecting a house.



INJECTABLE VACCINES

Injectable vaccines primarily stimulate antibodies that react to the pathogen after it has entered the body like an indoor dog reacting to visitors.

EXPERIENCE A NEW LEVEL OF COVERAGE, COMFORT, AND CONVENIENCE

CONFIDENT PROTECTION IN 3 EASY STEPS



STEP 1

Draw vaccine into **Luer-lock** syringe and remove needle.



STEP 2

Twist on Immuno-Mist-R™ applicator until tight.



STEP 3

Mist toward the back of the mouth for can't-miss coverage.*

*Refer to product insert for complete instructions.

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Nobivac® Intra-Trac® Oral BbPi

ADVANCED COVERAGE
and confidence

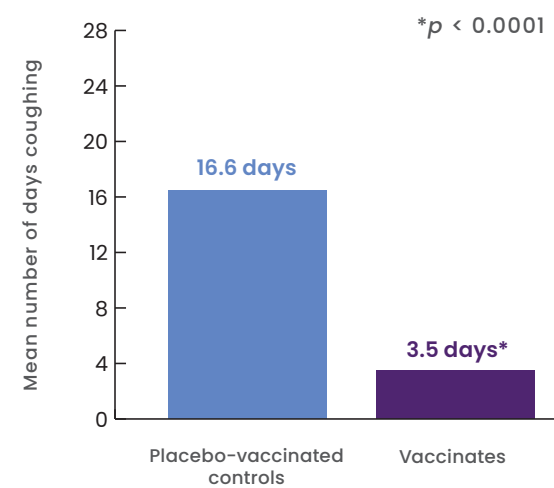
Finally, combination protection against *Bordetella bronchiseptica* (Bb) and parainfluenza virus (Pi) is available in an oral vaccine.



ADMINISTRATION IS EASY FOR STAFF AND COMFORTABLE FOR DOGS.

Shorten the duration of coughing in your patients⁵

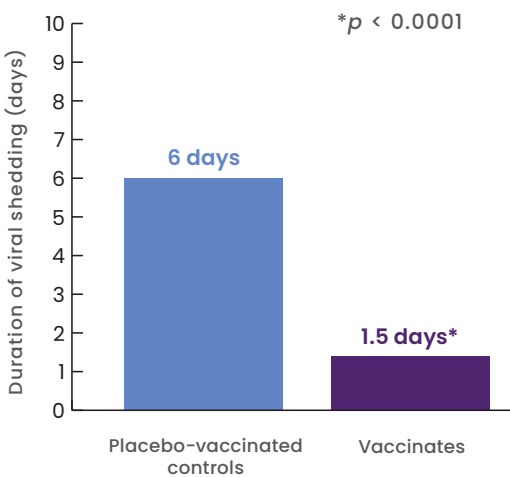
Vaccination reduced coughing from *Bordetella bronchiseptica*⁵



REDUCED THE DURATION OF COUGHING BY 5X WHEN COMPARED TO CONTROLS

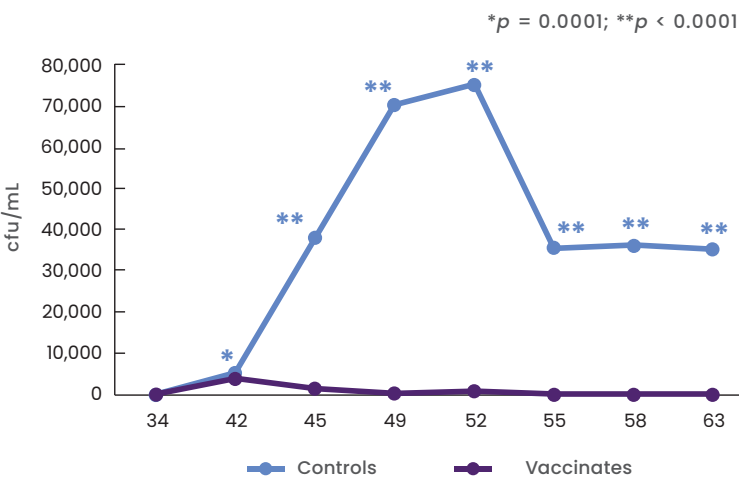
Protect other dogs with a shorter shedding period⁵

Shedding of parainfluenza virus⁵



REDUCED THE DURATION OF SHEDDING BY 4X WHEN COMPARED TO CONTROLS

Shedding of *Bordetella bronchiseptica*⁵



Dogs were challenged on day 36

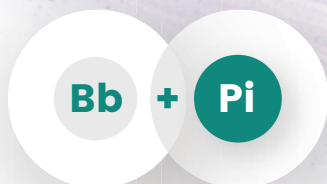
REDUCED LONG-TERM BACTERIAL SHEDDING WHEN COMPARED TO CONTROLS

DYNAMIC



duo

THE LATEST BREAKTHROUGH FROM NOBIVAC®
VACCINES IS ADVANCING CIRDC PROTECTION.



EFFECTIVE
PROTECTION



BROAD
COVERAGE



EXCEPTIONAL
COMFORT



TWIST & MIST

Talk to your Merck Animal Health sales representative
to place your order of Nobivac® Intra-Trac® Oral BbPi.

Customer Service: 1-866-683-7838 (Monday - Friday 8:00AM to 4:30PM EST)

References: **1.** Joffe DJ, Lelewski R, Scott Weese J, et al. Factors associated with development of Canine Infectious Respiratory Disease Complex (CIRDC) in dogs in 5 Canadian small animal clinics. *Can Vet J.* 2016;57:4-51. **2.** Maboni G, Seguel M, Lorton A, Berghaus R, Sanchez S. Canine infectious respiratory disease: new insights into the etiology and epidemiology of associated pathogens. *PLoS One.* 2019;14(4):e0215817. <https://doi.org/10.1371/journal.pone.0215817> **3.** Data on file. IDEXX CIRDC PCR data January 2020-August 2022 report. Merck Animal Health. **4.** Key vaccination considerations by antigen: *Bordetella*, Canine Parainfluenza, and Canine Influenza. American Animal Hospital Association (AAHA) Canine Vaccination Guidelines. Accessed Dec 8, 2022. <https://www.aaaha.org/aaaha-guidelines/2022-aaaha-canine-vaccination-guidelines/key-vaccination-considerations-by-antigen/bordetella-canine-parainfluenza-and-canine-influenza/> **5.** Data on file. Merck Animal Health.

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