



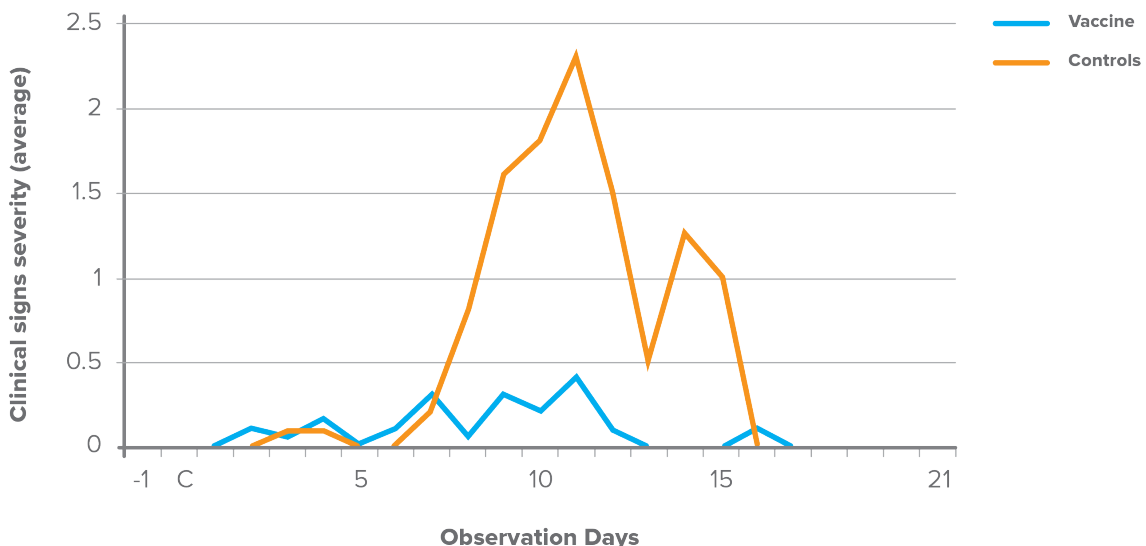
## Only **Boehringer Ingelheim** has the most current **West Nile vaccine strain**

### OUR WEST NILE VIRUS (WNV) PROTECTION:

- The only WNV vaccines that incorporate a horse-origin, 2005 vaccine strain most likely to infect horses today<sup>1</sup>
- At least 12 months WNV duration of immunity (DOI)
  - Foals vaccinated with Vetera<sup>®</sup> Gold + VEE
- Tested using aggressive, “gold standard” challenge studies
  - Intrathecal injection of the virulent West Nile challenge virus
- Proven safe in pregnant mares and foals as young as 4 months of age



### Clinical sign observations following virulent West Nile challenge<sup>2</sup>




Clinical sign severity (average) observed after challenge with WNV in yearlings in the vaccinated group (blue line) and the control group (orange line).



# West Nile Virus is still a threat in the US<sup>3</sup>

VETERA<sup>®</sup> offers the up-to-date West Nile vaccine strain, with a DOI of at least 12 months

		INNOVATOR <sup>®</sup>	PRESTIGE <sup>®</sup>
VACCINE TECHNOLOGY	Inactivated Whole Cell	Inactivated Whole Cell	Killed flavivirus chimera
WEST NILE STRAIN	North American Equine E159 <sup>™</sup> (2005)	NY99	NY99
INDICATIONS <sup>4</sup>	Aid in the prevention of mortality		
	Aid in the prevention of viremia	Aid in the prevention of viremia	Aid in the prevention of viremia
	Aid in the reduction of severity of clinical disease		Aid in the reduction of encephalitis
DOI	At least 1 year	1 year	Still in progress
MINIMUM AGE <sup>4</sup>	4 months	10 months	6 months
PREGNANT MARE SAFETY CLAIM <sup>4</sup>	Yes	No	No
CHALLENGE	Intrathecal	Subcutaneous	Intrathecal

REFERENCES:

1. Moudy RM et al. A newly emergent genotype of West Nile Virus. Am J Trop Med Hyg, 2007 Aug;77(2):365-70.
2. VETERA<sup>®</sup> west nile virus challenge vaccine efficacy study V9 2009 WNV 12 Mo. DOI. 12 month duration of immunity. Data on file at Boehringer Ingelheim.
3. United States Department of Agriculture. 2017 summary of West Nile virus equine cases in the United States: January 1–December 31, 2017. [https://www.aphis.usda.gov/animal\\_health/downloads/animal\\_diseases/2017-wnv-report.pdf](https://www.aphis.usda.gov/animal_health/downloads/animal_diseases/2017-wnv-report.pdf). Published March 2018. Accessed April 24, 2019.
4. Based on registered label indications of WNV vaccines.



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