

THE NEXT GENERATION



Circumvent® PCV G2. An Industry First in

# PCV2 OPTIONS ...*AGAIN!*

Give yourself more options with the  
NEXT GENERATION of Circumvent.



3-  
DAY-OLD  
PIGS

## Now you can vaccinate pigs as early as 3 days of age for PCV2

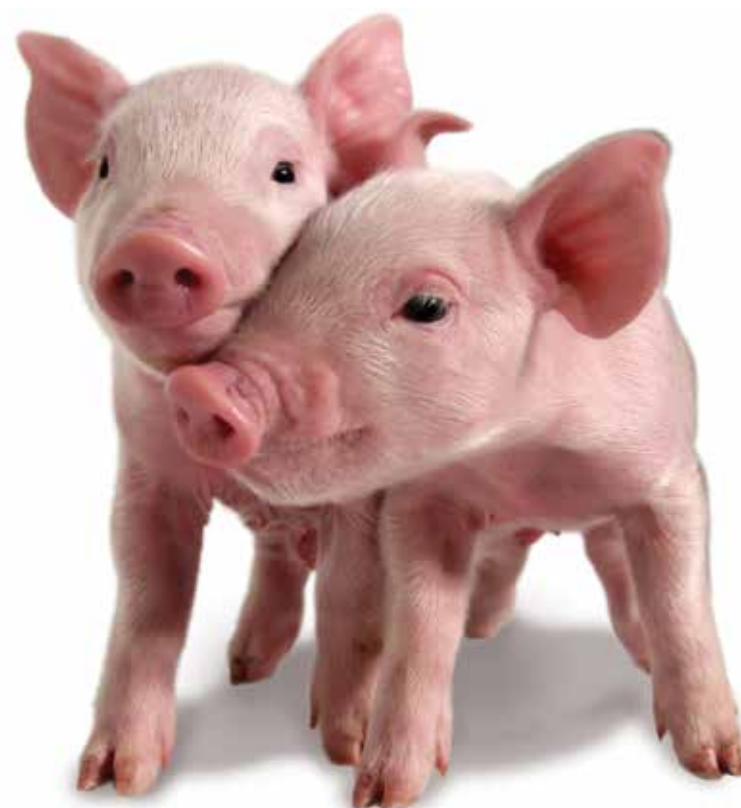
Pork producers now have a convenient new weapon in the fight against porcine circovirus Type 2 (PCV2): Circumvent® PCV G2, the next generation of circovirus protection, giving you OPTIONS.

Circumvent PCV G2 delivers the predictable, superior efficacy you've always trusted in Circumvent products. Even better, this new formula lets you choose one- or two-dose options for added convenience and features an industry-leading 5-month duration of immunity (DOI).

And again, another first, Circumvent PCV G2 is the only PCV2 vaccine labeled for use in pigs as early as 3 days of age.

1 DOSE  
OR  
2 DOSE

Circumvent®  
PCV G2



5-  
MONTH  
DOI

3-  
DAY-OLD  
PIGS

The sooner, the better.

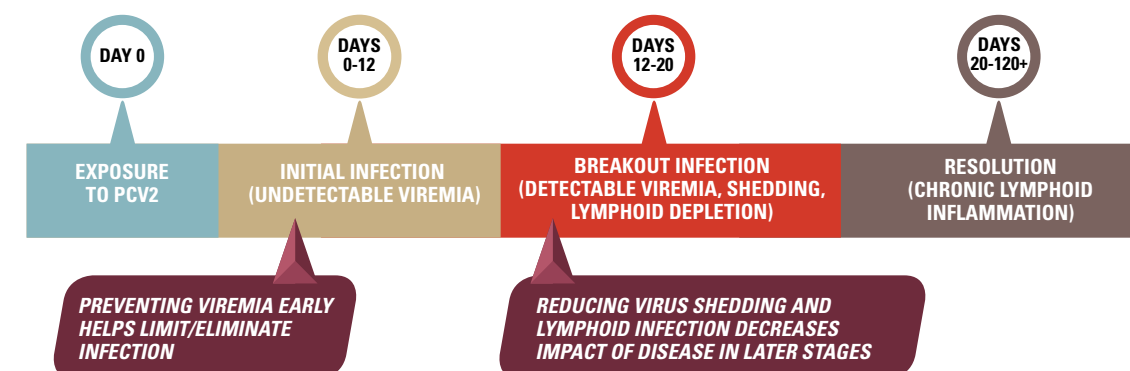
Having the option to vaccinate at such an early age offers several advantages. Most important is enhanced disease protection, because vaccinating pigs while they're still in the farrowing house helps them get off to a stronger start. They're ready to face PCV2 as soon as they hit the nursery and move throughout the grow-finish phase.

**Circumvent PCV G2 effectively aids in the prevention of PCV2 viremia**, which is the presence of the virus in a pig's blood. Following exposure to the virus, PCV2 viremia starts building and circulating in the blood and is the initial step in the development of the

disease in the pig. Even low levels of PCV2 viremia can affect a herd's daily gains and feed efficiency. Vaccines that help prevent PCV2 viremia are ideal because they minimize or essentially eliminate damage caused by the infection.

**Vaccinating pigs as early as 3 days of age is ultra convenient.** Young pigs are easier to handle, and a herd's most trusted and capable handlers most commonly work in farrowing. This can result in improved vaccine compliance. Plus there's an added benefit: the pigs themselves are less likely to be stressed while they're still with their mothers.

### TIME LINE of PCV2 disease progression



### Preventing viremia is important for disease control.

Circumvent PCV G2 has an "aid in the prevention of viremia" label claim. Preventing viremia is critical, because the virus can linger in affected blood for up to 4 to 5 months after a pig is infected, which increases the chance of shedding the disease and infecting all other pigs in the group.

Circumvent®  
PCV G2

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1 DOSE  
OR  
2 DOSE

## One dose or two. It's your choice.



1 DOSE

or



2 DOSE

Proven efficacy with the longest DOI on the market and early vaccination with the two-dose option are just two of the highlights of new Circumvent PCV G2. Its dosing options make it even more attractive.

### One-dose option.

Option one: A single 2-mL dose. New Circumvent PCV G2 gives you the option of vaccinating with one dose: a single 2-mL dose administered at 3 weeks of age or older.



2-mL dose  
at 3 weeks of age

### Two-dose option.

Option two: Two lower-volume doses. Circumvent PCV G2 can be administered to pigs with a 1-mL dose as early as 3 days of age followed by a second 1-mL dose approximately 3 weeks later.



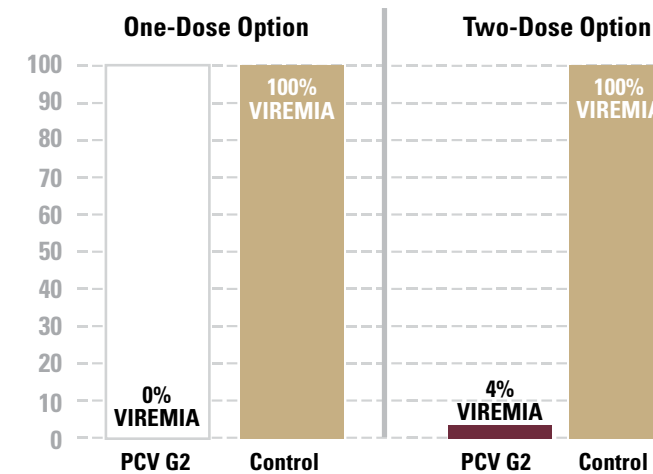
1-mL dose  
as early as 3 days of age



1-mL dose  
3 weeks later

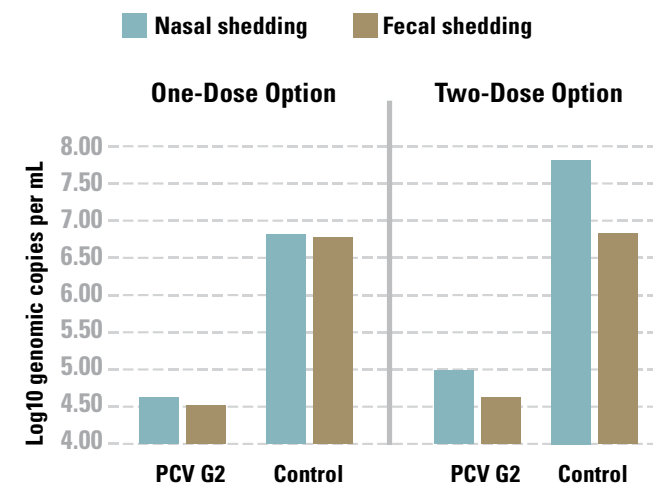
In either case – one dose or two – studies prove that Circumvent PCV G2 is extremely effective in controlling PCV2. While vaccination with Circumvent PCV G2 helps pigs get off to a stronger start and have a more profitable finish, the virus and disease threat still persists in the environment, and continual vaccination is critical for a healthy herd.

### PCV2 viremia RESULTS



Circumvent PCV G2 helped prevent or significantly reduce PCV2 viremia during the entire post-challenge (pigs were challenged at 10 weeks of age) monitoring period where vaccinates and controls were co-mingled, resulting in continuous challenge for the vaccinated pigs.

### Nasal and fecal shedding RESULTS



Circumvent PCV G2 reduced virus shedding by more than 100-fold during the entire post-challenge (pigs were challenged at 10 weeks of age) monitoring period where vaccinates and controls were co-mingled, resulting in continuous challenge for the vaccinated pigs.

### Real-world results.

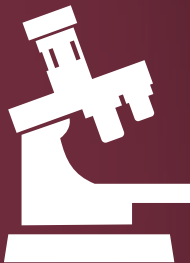
Merck Animal Health is the only company to successfully develop and market a PCV2 vaccine using a PCV2 and PRRS co-infection challenge model, which helps predict the ability of the vaccine to perform in real-world conditions.

Perhaps the single most important factor you can use in determining the best dosing option is your herd's risk of co-infection. Pigs compromised by PCV2 can be more susceptible to other economically impactful swine diseases, such as porcine reproductive and respiratory syndrome (PRRS), *Mycoplasma hyopneumoniae* and swine influenza virus (SIV).



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Vaccines with longer DOI can provide better protection and potentially reduce mortality just prior to marketing, where the loss of a pig approaches its market value.

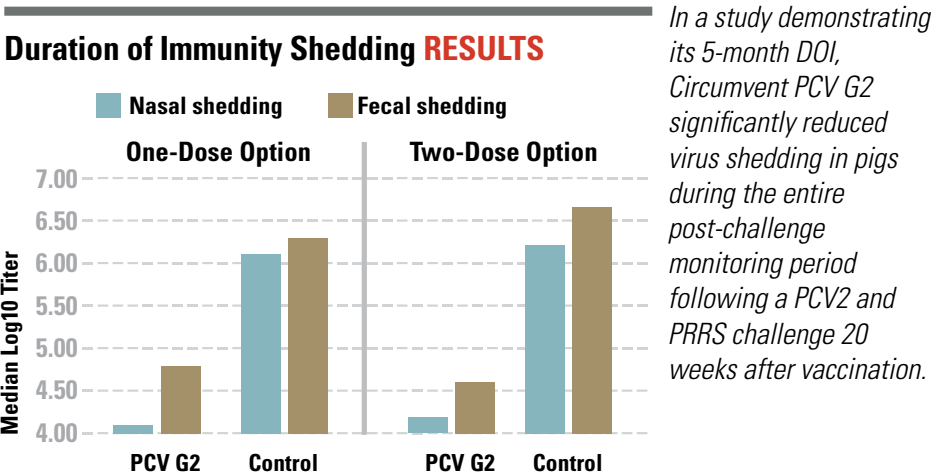
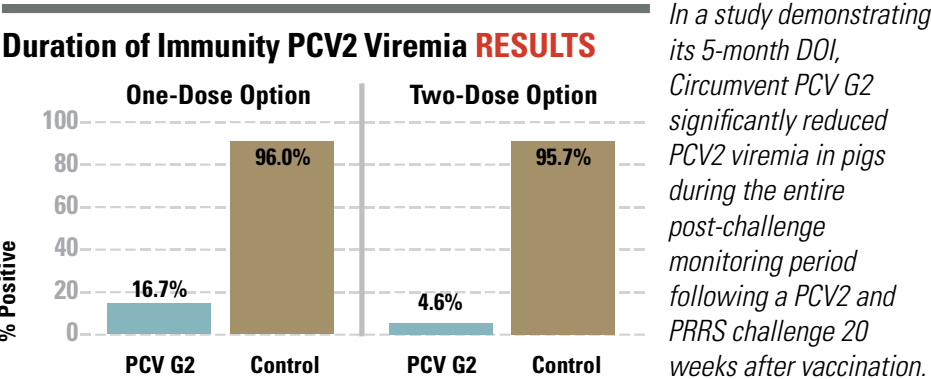
In a barn of 1,000 pigs, if just one 270-lb. pig is saved, and carcass prices are at \$1/lb., the benefit is more than \$200, or \$0.20 per pig.

—Derald Holtkamp, DVM, MS  
Associate Professor,  
Iowa State University  
College of Veterinary  
Medicine

### Stronger. Longer. A DOI of 5 months.

As the next generation of proven Circumvent vaccine products, new Circumvent PCV G2 features yet another upgrade: a DOI of 5 months. With protection that lasts about 25% longer than its closest competitor (5 months vs. 4), the economics are clear. Late-stage production losses can be staggering. Determining the market value of protection per month helps provide another assessment in your circovirus protection program.

### Do the math.



Protection in these DOI studies provided the same level of protection as in the standard challenge studies (see results on page 5).

### Weigh the options online.

You’ve made the choice to use Circumvent PCV G2. Now you can pick the option – one dose or two – that best fits your operation. To make that choice easier, Merck Animal Health created a new vaccination planning tool.

Just go online to [Circumvent-G2.com](http://Circumvent-G2.com) (Dosing Options section) to see the new interactive program that can help you determine which Circumvent vaccines and dosing options are best for your operation.



### When you compare the benefits of Circumvent PCV G2, you’ll see there’s no comparison.

Since the ongoing threat of PCV2 will always challenge your herd, it simply makes sense to provide as much protection as possible for as long as you can. That calls for Circumvent PCV G2.

#### Competitive COMPARISON

Label	Circumvent® PCV G2	CircoFLEX®	Fostera™ PCV
For use in pigs as early as 3 days of age (2-dose option)	●		
Aids in the prevention of PCV2 viremia	●		●
Reduction of virus shedding	●	● (nasal only)	
Reduction of lymphoid infection	●	●	
Duration of immunity	5 months (20 weeks)	4 months	4 months

To learn more about Circumvent PCV G2, talk to your veterinarian or visit [Circumvent-G2.com](http://Circumvent-G2.com). In the Economics of PCV2 section of the website, utilize the calculators to show your profit potential (feed efficiency and feed savings) from vaccinating with Circumvent vaccines.





## Your best defense against PCV2.

You know that PCV2 is a serious opponent, so why not give your young pigs the earliest, longest-lasting and most convenient protection available?

Consider the many reasons to choose Circumvent PCV G2:



Circumvent PCV G2 is the only PCV2 vaccine approved for use in pigs as early as 3 days of age.



This new vaccine gives you the options of one- or two-dose programs, letting you select what best fits your operation.



Circumvent PCV G2 aids in the prevention of PCV2 viremia and reduces the risks of co-infections. Now with an industry-best 5-month duration of immunity for longer protection.



Depending on inputs, Circumvent vaccines have shown to increase profits by \$7/head through improved feed efficiency.<sup>1</sup>



SW-PCV-DA-012-1 (08-13)

1. PCV2 and Mycoplasma Vaccine Comparison in a Midwest Commercial Swine Herd. Data on file. 8/11 SW-CIRM-SB01.

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