

Circumvent[®] G2
PCV-M



Circumvent[®] G2
PCV



The NEXT GENERATION Circumvent[®] G2
gives you even more

PCV2 OPTIONS!



THE NEXT GENERATION

THE SCIENCE OF HEALTHIER ANIMALS

 **MERCK**
Animal Health

Now you have even more options to combat PCV2.

Pork producers now have two convenient, new weapons in the fight against porcine circovirus Type 2 (PCV2): Circumvent® PCV G2 and Circumvent® PCV-M G2, the next generation of circovirus protection. That means you now have OPTIONS.

The Next Generation of Circumvent G2 vaccines delivers the predictable, superior efficacy you've always trusted in Circumvent. This reliable new formula lets you choose one- or two-dose options for added convenience. Plus, it's the only PCV2 vaccine labeled for use in pigs as early as 3 days of age.

Circumvent PCV-M G2 is the only 1-dose ready-to-use vaccine for PCV2 and mycoplasmal pneumonia with an industry-leading 5-month PCV2 duration of immunity (DOI). Circumvent G2 vaccines have a 25 percent longer DOI than others on the market.

**READY
TO
USE**

**3-
DAY-OLD
PIGS**

**1 DOSE
OR
2 DOSE**

**5-MO.
PCV2
DOI**

Circumvent **G2**
PCV

Circumvent **G2**
PCV-M





A new combo that fits your unique operation.

A single-bottle solution.

Circumvent PCV-M G2 is the reliable, 1-dose, ready-to-use combo vaccine for PCV2 and mycoplasmal pneumonia. Now you can fight these two costly diseases with one convenient, single-bottle product. No mixing. No combining. And no risk of contamination from the process. It's just that easy.



Real-world results.

Circumvent[®] PCV-M G2 gives you proven results. Results you'll see on your bottom line.

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 predicts how the vaccine will perform under the stress of real-world conditions.

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

Circumvent PCV-M G2 **REDUCES LUNG LESIONS** Caused by *M. hyo*

Challenge study	Group	Number of pigs	Percent lung surface lesions	Percent reduction in lung surface lesions versus controls
Option 1: Pigs given one 2-mL dose	Circumvent [®] PCV-M G2	49	6.62%	58.8%
	Placebo control	63	16.06%	
Option 2: Pigs given two 1-mL doses	Circumvent [®] PCV-M G2	24	3.16%	68.6%
	Placebo control	24	10.07%	



**THE NEXT
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The sooner, the better.

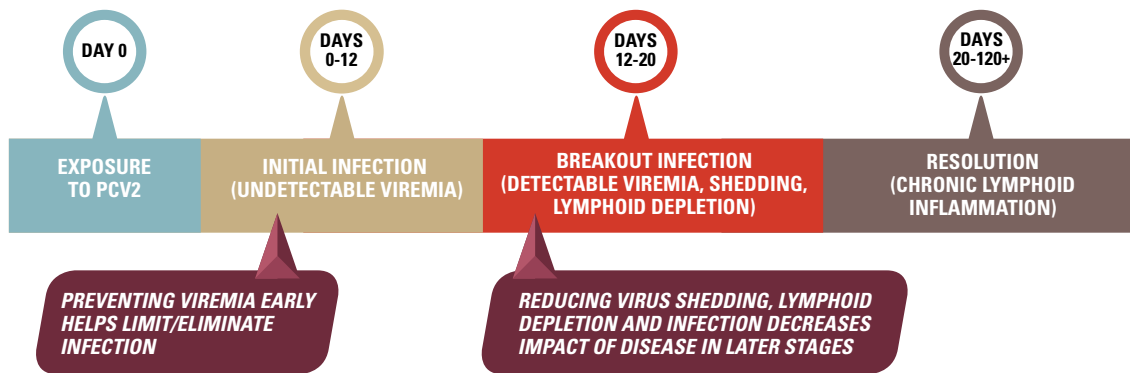
Having the option to vaccinate for PCV2 at such an early age offers several advantages. Most important is enhanced disease protection, because vaccinating pigs while they're still in the farrowing house helps them get off to a stronger start. They're ready to face PCV2 as soon as they hit the nursery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

Circumvent G2 effectively aids in the prevention of PCV2 viremia, which is the presence of the virus in a pig's blood. After exposure to the virus, PCV2 viremia starts to build within the pig's bloodstream, representing the critical first step in disease development. Even low levels of PCV2 viremia can

affect both your herd's daily gains and feed efficiency. Vaccines that help prevent PCV2 viremia are ideal because they effectively attack the virus, minimizing or essentially eliminating damage caused from 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 vaccination 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 PCV disease progression



Preventing viremia is important for disease control.

Both Next Generation Circumvent G2 vaccines have 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 virus and infecting all other pigs in the group.



THE NEXT GENERATION

circumvent-g2.com

One dose or two. It's your choice.

**1 DOSE
OR
2 DOSE**

The Next Generation Circumvent G2 vaccines offer convenient dosing options, making both formulas even more attractive.

One-dose option.

Option one: A single 2-mL dose. You now have the option of vaccinating with one dose: a single 2-mL dose administered at 3 weeks of age or older.



*1, 2-mL dose
at 3 weeks of age*

Two-dose option.

Option two: Two lower-volume doses. If preferred, you have the option of administering 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*



1 DOSE

— or —



2 DOSE

In either case – one dose or two – studies prove that Circumvent is extremely effective in controlling PCV2. While vaccination with the Next Generation Circumvent G2 vaccines 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.

**5-MO.
PCV2
DOI**

See for yourself.



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

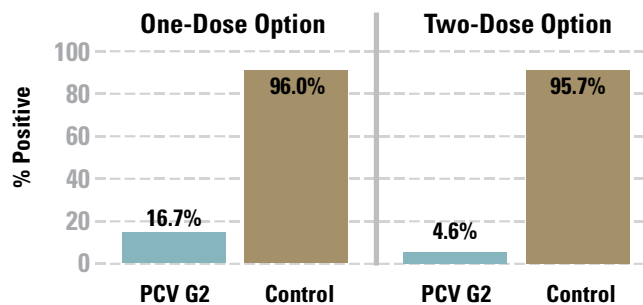
Stronger. Longer. A PCV2 DOI of 5 months.

The proven Next Generation Circumvent G2 vaccines feature a PCV2 duration of immunity of 5 months. These reliable new products provide protection that lasts about 25 percent longer than anything else on the market (5 months vs. 4). The economics are clear. Late-stage production losses can be staggering. Determining the market value of protection per month should be an important factor when you assess your operation's circovirus protection program.

Do the math.

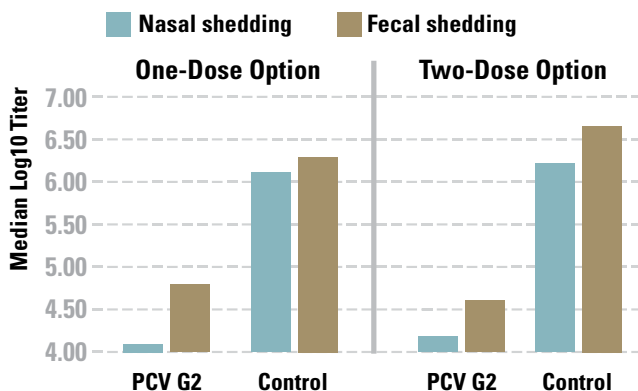
CIRCUMVENT G2			COMPETITOR							
\$	÷	5	=	\$		\$	÷	4	=	\$
PER DOSE		MONTHS OF PROTECTION		PER MONTH OF PROTECTION		PER DOSE		MONTHS OF PROTECTION		PER MONTH OF PROTECTION

Duration of Immunity PCV2 Viremia RESULTS



In a study demonstrating its 5-month DOI, Circumvent G2 significantly reduced PCV2 viremia in pigs during the entire post-challenge monitoring period following a PCV2 and PRRS challenge 20 weeks after vaccination.

Duration of Immunity Shedding RESULTS



In a study demonstrating its 5-month DOI, Circumvent G2 significantly reduced virus shedding in pigs during the entire post-challenge monitoring period following a PCV2 and PRRS challenge 20 weeks after vaccination.

Weigh the options online.

You've made the choice to use Circumvent PCV G2 or Circumvent PCV-M 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 (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 the Next Generation Circumvent G2, you'll see there's no comparison.

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

There's No **COMPARISON**

Features	Circumvent® PCV G2	Circumvent® PCV-M G2	CircoFLEX®	CircoFLEX® - MycoFLEX®	Fostera™ PCV	Fostera™ PCV MH
For use in pigs as early as 3 days of age (2-dose option)	●	●				
Offers both 1-dose or 2-dose options	●	●			●	
Ready-to-use PCV/ <i>M. hyo</i> formula	●	●				●
Aids in the prevention of PCV2 viremia	●	●			●	●
Aids in the reduction of <i>M. hyo</i> lung lesions		●				
Aids in the reduction of PCV2 virus shedding	●	●	● (nasal only)	● (nasal only)		●
Aids in the prevention or reduction of lymphoid lesions	●	●	●	●	●	●
PCV2 duration of immunity claim	5 months (20 weeks)	5 months (20 weeks)	4 months	NA	4 months	NA
Stringent PRRS PCV2 co-challenge model	●	●				

The choice is clear.

The Circumvent G2 family of vaccines lets you fight two costly diseases and improve herd health when you want, how you want.

Consider the many reasons to choose the Next Generation of Circumvent G2 vaccines:



Circumvent PCV-M G2 is the reliable 1-dose RTU combo vaccine for PCV2 and mycoplasmal pneumonia, making it easier than ever to vaccinate for each disease.



The only PCV2 vaccines approved for use in pigs as early as 3 days of age.



Two dosing options: One- or two-dose programs let you select what best fits your operation.



Aids in the prevention of PCV2 viremia and reduces the risk of co-infections. Now with an industry-best 5-month PCV2 duration of immunity for longer protection.



[Learn More](#)

To learn more about Circumvent PCV G2 and Circumvent PCV-M G2, talk to your veterinarian or visit **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.

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Circumvent-G2.com

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