Mycoplasma hyopneumoniae, in its chronic form, infects up to 80 percent of swine around the world, resulting in reduced average daily gain and decreased feed efficiency. Fortunately, helping protect against this disease just got easier. RespiSure-ONE® has new label claims, making it the only M. hyopneumoniae vaccine that can be administered to baby pigs one day of age or older. This gives producers the flexibility to vaccinate at processing or when handling pigs in the farrowing crate. Early vaccination can help decrease the window of susceptibility to enzootic pneumonia that may result when vaccination is delayed until weaning.

**Early Vaccination Pays**

“I’ve used RespiSure-ONE in sow herds that are facing mycoplasma outbreaks,” says Dr. Deborah Murray of New Fashion Pork in Jackson, Minn. “In these instances, it is too late to vaccinate in the nursery. Vaccinating pigs during the first week of life is necessary at times for piglets to receive proper immunization in an attempt to get ahead of disease challenge. RespiSure-ONE gives a good overall immune response from early on.”

**Convenient, Flexible Timing**

Dr. Rick Tubbs, Green River Animal Hospital, Jasper, Ala., stresses the importance of an early vaccination program. “In most farms, mycoplasmal pneumonia occurs at weaning or finishing,” he notes. “Giving a mycoplasma vaccination as early as possible is key to keeping these pigs healthy throughout their life.”

An added benefit of early vaccination is that it easily fits into established protocols. “Sow farm employees are already giving iron shots when processing pigs,” says Tubbs. “Vaccinating for mycoplasmal pneumonia at this time is very convenient.”

Dr. Cameron Schmitt of Pipestone Veterinary Clinic in Independence, Iowa, agrees. “People vaccinating at sow farms are very familiar with compliance requirements because it’s a part of their regular routine.”

**Extended Health Benefits**

Tubbs encourages the use of an effective, gold standard vaccine. Strong supporting data is key. He notes that, “the trend over the lifetime of the pig shows that early vaccination helps protect during finishing and at close out.

“When I control mycoplasma early, I have very little problems with co-infection from other diseases like H. parasuis,” Tubbs adds.

**Solid Performance**

Schmitt has used RespiSure-ONE for eight years and administered the product to more than 20 million pigs. “In the last five years, I’ve seen less than five cases of mycoplasma annually in pigs that were vaccinated with RespiSure-ONE.

“I recommend early vaccination with RespiSure-ONE. It means lower wean-to-finish mortality and morbidity,” Schmitt adds. “You also get increases in average daily gain because the pig is not expending energy to fight off mycoplasma.”

**Demonstrated Effective Protection**

A new challenge trial showed RespiSure-ONE to be effective in helping reduce chronic pneumonia caused by M. hyopneumoniae and allowed new label claims for helping reduce severity of colonization and reduce shedding of M. hyopneumoniae.

In an efficacy challenge, pigs were vaccinated at one day of age with RespiSure-ONE, and challenged at two weeks of age with M. hyopneumoniae. When compared to saline controls, vaccinates had:

- Significantly lower mean lung consolidation scores (Figure 1, \( P=0.05 \))
- Lower mean concentrations of M. hyopneumoniae in lungs, as measured by PCR
- Significantly reduced shedding (\( P=0.05 \))

![Figure 1. Mean percent total lung consolidation by treatment.](image-url)

**Figure 1.**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Lung Lesions %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controls</td>
<td>88% reduction</td>
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<tr>
<td>RespiSure-ONE</td>
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