

# VIRAL-BACTERIAL COINFECTION CHALLENGE RESPIRATORY HEALTH AND EFFECTIVE PRDC TREATMENT IN SOWS

*When a PRRS-compromised immune system exacerbates viral-bacterial coinfection a broad-spectrum antibiotic treatment may be critical to contain death loss and restore sow health.*

Since the late 1980s, Porcine Reproductive and Respiratory Syndrome (PRRS) has become the most economically significant disease affecting U.S. swine production. And its recent “1-4-4” strain has made historically cold-season respiratory disease a year-round concern.

All agree that prevention is the best medicine against respiratory disease. Vaccines, biosecurity, and herd management tactics are essential for animal health and welfare, and cost-effective operation. But vaccine success against PRRS has been hit and miss. When it fails and Porcine Respiratory Disease Complex (PRDC) takes hold, an antibiotic treatment must answer the call.

Experienced veterinarians make all the difference, especially when faced with dead pigs—time is of the essence. Performing on-site necropsy, identifying viral or bacterial patterns in the lungs, and assessing the severity of herd infection, veterinarians can initiate

any number of therapies immediately. Pathogen-specific lab diagnoses will confirm or help fine-tune treatment within days.

Lab results will identify specific pathogen antibiotic sensitivity, but *in vitro* (lab) recommendations and *in vivo* (on the farm) experience don't always agree. Again, a veterinarian's experience comes into play.

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*Veterinarians are key in recognizing and treating PRDC. We can clinically evaluate how antibiotics are more effective on certain pathogens and situations than others. The more options available to veterinarians, the better we can effectively treat pigs.”*

– Dr. Chris Sievers, DVM, MS



Veterinarians have a good handle on pig flow from wean to finish. Working closely with producers and farm managers, they pick up on subtle differences day to day. They consider the herd environment as well as compounding factors such as immune status, maternal antibodies, genetics, and nutrition. They see how antibiotics work well in some situations and not so well in others. Sometimes, trial and error deliver the best results. But in a regulated industry, the more treatment options available to the veterinarian, the better.

### **HISTORICALLY, SOWS RESPOND WELL TO CEPHALOSPORINS.**

A broad-spectrum cephalosporin, Cefenil® RTU (ceftiofur hydrochloride sterile suspension) from Norbrook® is labeled to treat and control four common respiratory pathogens, making it a worthwhile consideration where broad-spectrum coverage is desired. And its four-day withdrawal is one of the shortest in the swine industry.

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*Broad-spectrum Cefenil® RTU makes a nice addition to a veterinarian's antibiotic toolbox.”*

- Dr. Chris Sievers, DVM, MS

Its mode of action makes Cefenil® RTU fast acting. As beta lactams, cephalosporins are widely distributed throughout the body, reaching almost every body tissue and fluid. Depending on the pathogen, Cefenil® RTU reaches minimum inhibitory concentrations (MIC), the level required to quickly kill the bacteria, within 30 to 60 minutes. And because beta lactams are concentration-independent antibiotics, their efficacy is based on their ability to reach and remain at MIC levels at the site of infection for prolonged periods.

Cefenil® RTU is easy to syringe. In an internal study\*\*, Cefenil® RTU was easier to syringe than EXCENEL® RTU EZ (ceftiofur hydrochloride) Sterile Suspension, delivering the same or better handling characteristics.

The first ready-to-use, veterinary prescription, generic ceftiofur hydrochloride injectable, Cefenil® RTU is made by Norbrook®, Inc, a company committed to delivering greater value to veterinarians and producers with proven generic products, including enhanced formulations, packaging, and cost when compared to pioneer products. Norbrook® products meet the same high FDA safety, efficacy and manufacturing standards as name-brand or pioneer brand products, as well as the same FDA-required testing, monitoring, and reporting, giving producers complete confidence in these quality generic products.



Observe label directions and withdrawal times. Not for use in calves to be processed for veal. As with all drugs, the use of Cefenil® RTU (ceftiofur hydrochloride sterile suspension) is contraindicated in animals previously found to be hypersensitive to the drug. See product labeling for full product information.

\*\*Internal data on file. A numerical but not statistical difference was observed.

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