

# Administering Medications



# Pneumonia



Purdue University Swine  
Production Medicine

# Soremouth



# Infectious Bovine Rhinotracheitis (IBR)



Taken from InfoVets Cattle CD

# Anemia



# White Muscle Disease



# Cattle with Grubs



# Methods of Administering Medication

1. **Intradermal:** Injection made into the skin.
2. **Subcutaneous (SQ):** Injection made just beneath the skin.
3. **Intramuscular (IM):** Injection made into the muscle.
4. **Intravenous (IV):** Injection made in the veins of an animal.
5. **Intranasal (IN):** Injection given through the nose, often sprayed into nostrils.
6. **Intraperitoneal:** Made into the body cavity, usually into the hollow of the flank. Used when a quick response is needed.
7. **Intramammary:** Made in the udder through opening in the teats.
8. **Topical Medication:** Placed on skin or surface area of skin, such as backrubbers or pour-ons.
9. **Oral Medication:** Through the mouth, in liquid, pill, bolus, or additive in feed
10. **Bolus:** a large pill that is given with a tool called a balling gun.



# Example Label

- **IVOMECC® (ivermectin) 1% Injection for Swine, Produced by Merck Inc.**
- *IVOMECC 1% Injection for Swine is a clear, ready-to-use, sterile solution containing 1% ivermectin, 40% glycerol formal, and propylene glycol, q.s. ad 100%*

## **IVOMECC**

### **Proven Results. No compromises.**

Producers count on MERICAL® IVOMECC® Brand products for swine for trusted performance and proven efficacy. IVOMECC® (ivermectin) 1% Injection for Swine is indicated for the effective treatment and control of the following harmful species of gastrointestinal roundworms, lungworms, lice, and mange mites in swine.

Studies show that IVOMECC Injection for Swine consistently controlled 100% of the mange mites in naturally infested pigs by day 14, and no mange mites were found 28 days following treatment.<sup>1</sup>

Be sure to ask your veterinarian about the IVOMECC for Swine Herd Mange/Lice Elimination (HM/LE) Program and mange- and lice-free certification for your herds.

- **PACKAGING**The 200 mL pack is a soft, collapsible pack designed to use with automatic syringe equipment. Inject subcutaneously. Each pack contains sufficient solution to treat 400 head of 38 lb (17.3 kg) swine. Inject ½ mL per 38 lbs.
- The 500 mL pack is a soft, collapsible pack designed to use with automatic syringe equipment. Each pack contains sufficient solution to treat 1000 head of 38 lb (17.3 kg) swine.

## Treatment records needed:

1. Individual animal or group identification
2. Date treated
3. Product administered and manufacture's lot/serial number
4. Dosage used
5. Route and location of administration
6. Earliest date animal will have cleared withdrawal period

# Injectable animal health products:

1. Products labeled for subcutaneous (SQ) administration should be administered SQ in the neck region (ahead of the shoulders).
2. All products labeled for intra-muscular (IM) use shall be given in the neck region only (no exceptions, regardless of age).
3. All products cause tissue damage when injected IM. Therefore all IM use should be avoided if possible.
4. Products cleared for SQ, IV or oral administration are recommended.
5. Products with low dosage rates are recommended and proper spacing should be followed
6. No more than 10 cc of product is administered per IM injection site.

*Info taken from [www.bqa.org](http://www.bqa.org)*