(2) The exact dosage to be administered must be determined after evaluating the animal’s condition and will vary according to the size of the animal and the degree of shock. The suggested dosage range for small animals such as dogs is 4 to 8 cubic centimeters per pound body weight. The suggested dosage range for large animals such as sheep, calves, cows, or horses is 2 to 4 cubic centimeters per pound of body weight. It is administered intravenously at a rate of 10 cubic centimeters per minute in small animals and 20 to 30 cubic centimeters per minute in large animals. The solution is administered aseptically and must be between 50 to 70 °F. when injected.

(3) A few animals will exhibit signs of allergic reaction. This solution can cause transient reversible nephrosis. This product is not intended to replace whole blood in cases of anemia and should not be used in the presence of renal dysfunction. Unused portions remaining in bottles should be discarded.

(4) For use only by or on the order of a licensed veterinarian.

§ 522.1044 Gentamicin.

(a) Specifications. Each milliliter of solution contains gentamicin sulfate equivalent to 5, 50, or 100 milligrams (mg) gentamicin.

(b) Sponsors. See sponsors in §510.600(c) of this chapter for use as in paragraph (d) of this section.

(1) No. 000061 for use of 5 mg per milliliter (mL) solution in swine as in paragraph (d)(4), 50 mg/mL solution in dogs and cats as in paragraph (d)(1), 50 mg/mL and 100 mg/mL solution in chickens and turkeys as in paragraphs (d)(2) and (d)(3) of this section.

(2) No. 058005 for use of 5 mg/mL solution in swine as in paragraph (d)(4) of this section.

(3) No. 000010 for use of 50 mg/mL solution in dogs as in paragraph (d)(5) of this section.

(4) No. 000859 for use of 100 mg/mL solution in turkeys as in paragraph (d)(2) and in chickens as in paragraph (d)(3) of this section.

(c) Related tolerances. See §556.300 of this chapter.

(d) Conditions of use—(1) Dogs and cats—(i) Amount. Two milligrams of gentamicin per pound of body weight, twice daily on the first day, once daily thereafter, using a 50 milligram-per-milliliter solution.

(ii) Indications for use—(a) Dogs. For the treatment of infections of urinary tract (cystitis, nephritis), respiratory tract (tonsillitis, pneumonia, tracheobronchitis), skin and soft tissue (pyoderma, wounds, lacerations, peritonitis).

(b) Cats. For the treatment of infections of urinary tract (cystitis, nephritis), respiratory tract (pneumonitis, pneumonia, upper respiratory tract infections), skin and soft tissue (wounds, lacerations, peritonitis), and as supportive therapy for secondary bacterial infections associated with panleukopenia.

(2) Turkeys—(i) Amount. One milligram of gentamicin per 0.2 milliliter dose, using the 50- or 100-milligrams-per-milliliter product diluted with sterile saline to a concentration of 5 milligrams-per-milliliter.

(ii) Indications for use. As an aid in the prevention of early mortality due to Arizona paracolon infections susceptible to gentamicin.

(iii) Limitations. For 1- to 3-day old turkey poults. Administer subcutaneously in the neck. Injected poults must not be slaughtered for food for at least 9 weeks after treatment.

(3) Chickens—(i) Amount. 0.2 milligram of gentamicin per 0.2 milliliter dose, using the 50- or 100-milligrams-per-milliliter product diluted with sterile saline to a concentration of 1.0 milligram-per-milliliter.

(ii) Indications for use. In day-old chickens, for prevention of early mortality caused by Escherichia coli, Salmonella typhimurium, and Pseudomonas aeruginosa that are susceptible to gentamicin.

(iii) Limitations. For use in day-old chickens only. Administer aseptically, injecting the diluted product subcutaneously in the neck. Do not slaughter treated animals for food for at least 5 weeks after treatment.
(4) Swine—(i) Amount. 5 milligrams of gentamicin as a single intramuscular dose using 5 milligram-per-milliliter solution.

(ii) Indications for use. In piglets up to 3 days old for treatment of porcine colibacillosis caused by strains of *E. coli* sensitive to gentamicin.

(iii) Limitations. For single intramuscular dose in pigs up to 3 days of age only. Do not slaughter treated animals for food for at least 40 days following treatment.

(5) Dogs—(i) Amount. 2 milligrams of gentamicin per pound of body weight, twice daily on the first day, then once daily.

(ii) Indications for use. For use in the treatment of urinary tract infections (cystitis) caused by *Proteus mirabilis*, *Escherichia coli*, and *Staphylococcus aureus*.

(iii) Limitations. Administer intramuscularly or subcutaneously. If no improvement is seen after 3 days, treatment should be discontinued and the diagnosis reevaluated. Treatment not to exceed 7 days. Federal law restricts this drug to use by or on the order of a licensed veterinarian.

§ 522.1073 Gonadorelin acetate.

(a) Specifications. Each milliliter of solution contains 100 micrograms (μg) of gonadorelin as gonadorelin acetate.

(b) Sponsor. See No. 068504 in §510.600(c) of this chapter.

(c) Conditions of use in cattle—(1) Indications for use and amounts.

(i) For the treatment of ovarian follicular cysts in dairy cattle. Administer 100 μg gonadorelin by intramuscular or intravenous injection.

(ii) For use with cloprostenol sodium to synchronize estrous cycles to allow for fixed-time artificial insemination in lactating dairy cows and beef cows. Administer to each cow 100 μg gonadorelin by intramuscular injection, followed 6 to 8 days later by 500 μg cloprostenol by intramuscular injection, followed 30 to 72 hours later by 100 μg gonadorelin by intramuscular injection.

(2) Limitations. Federal law restricts this drug to use by or on the order of a licensed veterinarian.

§ 522.1075 Gonadorelin diacetate tetrahydrate.

(a) Specifications. Each milliliter of solution contains 50 micrograms (μg) of gonadorelin diacetate tetrahydrate.

(b) Sponsors. See Nos. 000061, 050604, and 059130 in §510.600(c) of this chapter.

(c) Conditions of use in cattle. It is used as follows:

(1) Amount. 100 μg per cow as a single intramuscular or intravenous injection.

(2) Indications for use. For the treatment of ovarian cysts in dairy cattle.

(3) Limitations. Federal law restricts this drug to use by or on the order of a licensed veterinarian.

§ 522.1077 Gonadorelin hydrochloride.

(a) Specifications. Each milliliter sterile aqueous solution contains 50 micrograms of gonadorelin (as hydrochloride).

(b) Sponsor. See No. 000856 in §510.600(c) of this chapter.