

# RCI Controlled Therapeutic Medication Schedule

(revised January 2019)

Withdrawal times are recommended guidelines and reliance on these guidelines is not a guarantee of compliance with IRB medication rules (see 11 Illinois Administrative Code 603). The official test samples may contain the following therapeutic medications in concentrations less than the threshold levels:

## **ACEPROMAZINE**

Withdrawal Guideline: 48 hours  
**Threshold:** 10 ng/ml as 2-(1-hydroxyethyl) promazine sulfoxide (HEPS) in urine.  
Dosing Specifications: Single IV dose of acepromazine at 0.05 mg/kg.

## **ALBUTEROL**

Withdrawal Guideline: 72 hours  
**Threshold:** 1 ng/ml in urine.  
Dosing Specifications: 720 mcg total dose intra-nasal only. Based upon dosing up to 4 times per day. Administration other than via intra-nasal is not recommended.

## **BETAMETHASONE**

Withdrawal Guideline: 7 days  
**Threshold:** 10 pg/ml in serum or plasma.  
Dosing Specifications: IA administration of 9 mg of Betamethasone Sodium Phosphate and Betamethasone Acetate Injectable Suspension, USP (American Regent product #0517-0720-01). IM administration of betamethasone acetate will result in serum or plasma concentrations that will exceed the threshold level for weeks or even months.

## **BUTORPHANOL**

Withdrawal Guideline: 48 hours  
**Threshold:** 300 ng/ml of total butorphanol in urine.  
Dosing Specifications: Single IV dose of butorphanol as Torbugesic® (butorphanol tartrate) at 0.1 mg/kg.

### **CETIRIZINE**

Withdrawal Guideline: 48 hours  
**Threshold:** 6 ng/ml in serum or plasma.  
Dosing Specifications: 0.4 mg/kg twice daily for 5 doses.

### **CIMETIDINE**

Withdrawal Guideline: 24 hours  
**Threshold:** 400 ng/ml in serum or plasma.  
Dosing Specifications: 20 mg/kg twice daily for 7 doses.

### **CLENBUTEROL**

Withdrawal Guideline: 14 days for Thoroughbred and Quarter horses and  
4 days for Standardbred horses.  
**Threshold:** 140 pg/ml in urine for Thoroughbred and Quarter Horses  
Limit of Detection (which is not less than 10 pg/ml) in serum or  
plasma for Standardbred horses.  
Dosing Specifications: Oral administration of clenbuterol as Ventipulmin® syrup  
(Boehringer-Ingelheim Vetmedica Inc., NADA 140-973) at  
0.8 mcg/kg twice a day.

### **DANTROLENE**

Withdrawal Guideline: 48 hours  
**Threshold:** 100 pg/ml of 5-hydroxydantrolene in serum or plasma.  
Dosing Specifications: Oral administration of 500 mg of dantrolene as paste  
(compounding pharmacy) or capsule formulation (Proctor and  
Gamble).

### **DETOMIDINE**

Withdrawal Guideline: 48 hours  
**Threshold:** Limit of Detection in plasma.  
Dosing Specifications: Single IV dose of 5 mg.

## **DEXAMETHASONE**

Withdrawal Guideline: 72 hours  
**Threshold:** Limit of Detection (which is not less than 5 pg/ml) in serum or plasma.  
Dosing Specifications: IM and IV administration of dexamethasone sodium phosphate or oral administration of dexamethasone at 0.05 mg/kg, regardless of route.

## **DICLOFENAC**

Withdrawal Guideline: 48 hours  
**Threshold:** 5 ng/ml in serum or plasma.  
Dosing Specifications: Five inch ribbon topical application of 1% diclofenac liposomal cream formulation (SurpassTopical Anti-Inflammatory Cream, IDEXX Pharmaceuticals).

## **DIMETHYL SULFOXIDE (DMSO)**

Withdrawal Guideline: 48 hours  
**Threshold:** 10 mcg/ml in serum or plasma.  
Dosing Specifications: IV administration.

## **FIROCOXIB**

Withdrawal Guideline: 14 days  
**Threshold:** 20 ng/ml in serum or plasma.  
Dosing Specifications: Oral administration of firocoxib as EQUIOXX oral paste at a daily dose of 0.1 mg/kg for four days.

## **FLUNIXIN**

Withdrawal Guideline: 32 hours  
**Primary Threshold:** 20 ng/ml in serum or plasma.  
**Secondary Anti-Stacking Threshold:** 3 ng/ml in serum or plasma.  
Dosing Specifications: Single IV dose of flunixin as Banamine® (flunixin meglumine) at 1.1 mg/kg.

### **FUROSEMIDE**

Withdrawal Guideline: 4 hours  
**Threshold:** 100 ng/ml in serum or plasma and specific gravity in urine less than 1.010.  
Dosing Specifications: Single IV dose of furosemide up to 500 mg.

### **GUAIFENESIN**

Withdrawal Guideline: 48 hours  
**Threshold:** 12 ng/ml in serum or plasma.  
Dosing Specifications: 2 grams twice daily for 5 doses.

### **GLYCOPYRROLATE**

Withdrawal Guideline: 48 hours  
**Threshold:** 3 pg/ml in serum or plasma.  
Dosing Specifications: Single IV dose of 1 mg of glycopyrrolate as Glycopyrrolate Injection, USP (American Regent product #0517-4601-25).

### **ISOFLUPREDONE**

Withdrawal Guideline: 7 days  
**Threshold:** 100 pg/ml in serum or plasma.  
Dosing Specifications: 10 mg total dose subcutaneous or 20 mg total dose in one articular space.

### **KETOPROFEN**

Withdrawal Guideline: 24 hours  
**Primary Threshold:** 2 ng/ml in serum or plasma.  
**Secondary Anti-Stacking Threshold:** 1 ng/ml in serum or plasma.  
Dosing Specifications: Single IV dose of ketoprofen as Ketofen® at 2.2mg/kg.

### **LIDOCAINE**

Withdrawal Guideline: 72 hours  
**Threshold:** 20 pg/ml of total 30H-lidocaine in serum or plasma.  
Dosing Specifications: 200 mg of lidocaine as its hydrochloride salt administered subcutaneously.

### **MEPIVACAINE**

Withdrawal Guideline: 72 hours  
**Threshold:** 10 ng/ml of 3-hydroxymepivacaine in urine or mepivacaine at Level of Detection in serum or plasma.  
Dosing Specifications: Single 0.07 mg/kg subcutaneous dose of mepivacaine.

### **METHOCARBAMOL**

Withdrawal Guideline: 48 hours  
**Threshold:** 1 ng/ml in serum or plasma.  
Dosing Specifications: Single IV dose of 15 mg/kg methocarbamol as Robaxin® or 5 grams orally. There is a potential for reaction when methocarbamol is administered with phenylbutazone.

### **METHYLPREDNISOLONE**

Withdrawal Guideline: See dosing specifications.  
**Threshold:** 100 pg/ml in serum or plasma.  
Dosing Specifications: Total dose of methylprednisolone acetate suspension in one articular space. The recommended withdrawal for methylprednisolone acetate is a minimum of 21 days at a 100 mg dose.

### **OMEPRAZOLE**

Withdrawal Guideline: 24 hours  
**Threshold:** 10 ng/ml in serum or plasma.  
Dosing Specifications: 1 tube (2.2 grams) once daily for four doses.

### **PHENYLBUAZONE**

Withdrawal Guideline: 24 hours  
**Primary Threshold:** 2 mcg/ml in serum or plasma.  
**Secondary Anti-Stacking Threshold:** 0.3 mcg/ml in serum or plasma.  
Dosing Specifications: Single IV dose of phenylbutazone at 4.0 mg/kg.

### **PREDNISOLONE**

Withdrawal Guideline: 48 hours  
**Threshold:** 1 ng/ml in serum or plasma.  
Dosing Specifications: 1 mg/kg orally.

### **PROCAINE PENICILLIN**

(mandatory notification to the IRB at time of administration)  
Withdrawal Guideline: Shall not be administered after the horse is entered to race.  
**Threshold:** 25 ng/ml of procaine in serum or plasma.  
Dosing Specifications: IM administration.

### **RANITIDINE**

Withdrawal Guideline: 24 hours  
**Threshold:** 40 ng/ml in serum or plasma.  
Dosing Specifications: 8 mg/kg twice daily for 7 doses.

### **TRIAMCINOLONE ACETONIDE**

Withdrawal Guideline: 7 days  
**Threshold:** 100 pg/ml in serum or plasma.  
Dosing Specifications: Total dose of 9 mg in one articular space. IM administration of triamcinolone acetonide will result in serum or plasma concentrations that will exceed the threshold level for weeks or even months.

### **XYLAZINE**

Withdrawal Guideline: 48 hours  
**Threshold:** 200 pg/ml in serum or plasma.  
Dosing Specifications: 200 mg IV administration.

### **ABBREVIATIONS:**

kg – kilogram	mcg – microgram	IA – intra-articular
mg – milligram	ml – milliliter	IM - intramuscular
ng – nanogram	pg – picogram	IV – intravenous