RCI Controlled Therapeutic Medication Schedule
(revised March 29, 2017)

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).

**DETOomidine**
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.

**PHENYLIBUTAZONE**
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