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RMTC APPROVED CONTROLLED THERAPEUTIC MEDICATIONS

WARNING: The information on the Racing Medication and Testing Consortium Therapeutic Medications List does not constitute and is not a guarantee, warranty or assurance that the use of any of the therapeutic medications at the dosage and withdrawal time listed will not result in a positive post-race test. The Racing Medication and Testing Consortium is not responsible for results differing in any way from those herein.

Use of this document and its information does not lessen or relieve any trainer's responsibility for affirming that, during a horse race, a horse is free of any therapeutic medication listed in his or her state's racing commission rulebook, and for complying with provisions of the state racing commission's regulations.

Owners, trainers or any other persons responsible for the care of a racehorse are strongly advised to consult a veterinarian and the state racing commission regulatory veterinarian for guidance and advice on the use and withdrawal times of all therapeutic medications, as testing methodologies may change with little or no notice. The guidelines provided in this document are not consistent with foreign regulations or laboratory methods.

PLEASE NOTE: These guidelines are based upon the administration of a single medication. Combining medications may significantly affect withdrawal times.

| Substance | Withdrawal Guideline¹ | Threshold | Route of Administration | Experimental Administration Dosage |
|------------------|---|---|---|---|
| Acepromazine | 48 hours | HEPS - 10 ng/mL of urine | Intravenous | 0.05 mg/kg |
| Albuterol | 72 hours | 1 ng/mL of urine | Intra-nasal ² | 720 mcg total dose |
| Betamethasone | 7 days | 10 pg/mL of plasma or serum | Intra-articular as betamethasone acetate and betamethasone sodium phosphate | 9 mg total in one articular space |
| Butorphanol | 48 hours | Free butorphanol 2 ng/ml of plasma or serum or total butorphanol 300 ng/ml of urine | Intravenous | 0.1 mg/kg |
| Cetirizine | 48 hours ³ | 6 ng/ml of plasma/serum | Orally | 0.4 mg/kg twice daily for 5 doses |
| Cimetidine | 24 hours | 400 ng/ml of plasma or serum | Orally | 20 mg/kg twice daily for 7 doses |
| Clenbuterol | 14 days | 140 pg/mL in urine or LOD in plasma or serum | Orally | 0.8 mcg/kg twice daily (max. 30 days) |
| Dantrolene | 48 hours | 5-OH dantrolene 0.1 ng/mL of plasma or serum | Orally | 500 mg total dose |
| Detomidine | 48 hours | 1 ng/mL in plasma or serum, 2 ng/ml of carboxydetomidine in urine | Intravenous | 5 mg |
| Dexamethasone | 72 hours | 5 pg/mL of plasma or serum | Intravenous, oral, and intramuscular | 0.05 mg/kg |
| Diclofenac | 48 hours | 5 ng/mL of serum or plasma | Systemic | 5" ribbon of Surpass every 12 hours to one site |

¹ Note: Withdrawal Guidelines are for informational purposes only. They do not constitute a guarantee. Additionally, this guidance is based upon administration of a single medication – the combination of any of these medications or addition of other substances may substantially affect the withdrawal times.

² Note: Administration of albuterol other than via intra-nasal routes is not recommended. Use of therapeutic doses of oral albuterol even outside of the recommended withdrawal guidelines carries a substantial risk of exceeding the regulatory threshold.

³ Note: Do not administer any avermectin drugs (including ivermectin) within 48 hours of a race if the horse has been administered cetirizine as it carries an increased risk of a concentration of cetirizine in excess of the regulatory threshold.

| <i>Substance</i> | <i>Withdrawal Guideline⁴</i> | <i>Threshold</i> | <i>Route of Administration</i> | <i>Experimental Administration Dosage</i> |
|--------------------|---|---|---|--|
| DMSO | 48 hours | 10 mcg/mL of plasma or serum | Topical | Up to two ounces |
| Firocoxib | 14 days | 20 ng/mL of plasma or serum | Orally | 0.1 mg/kg for 4 days |
| Flunixin | 32 hours | 20 ng/mL of serum or plasma ^a | Intravenous | 1.1 mg/kg |
| Furosemide | 4 hours | 100 ng/mL in blood and urine specific gravity < 1.010 | Intravenous | 500 mg total dose |
| Glycopyrrolate | 48 hours | 3 pg/mL of serum or plasma | Intravenous | 1 mg total dose |
| Isoflupredone | 7 days | 100 pg/mL of serum or plasma | Subcutaneous or Intra-articular administration of isoflupredone acetate | 10 mg total dose subcutaneous or 20 mg total dose in one articular space |
| Guaifenesin | 48 hours | 12 ng/ml of plasma or serum | Orally | 2 g twice daily for 5 doses |
| Ketoprofen | 24 hours | 2 ng/mL of serum or plasma | Intravenous | 2.2 mg/kg |
| Lidocaine | 72 hours | 20 pg/mL of total 3-OH-lidocaine in plasma or serum | Subcutaneous | 200 mg total dose |
| Mepivacaine | 72 hours | 3-OH-mepivacaine - 10 ng/mL in urine or mepivacaine at LOD in plasma or serum | Subcutaneous - distal limb | 0.07 mg/kg |
| Methocarbamol | 48 hours | 1 ng/mL of serum or plasma | Intravenous ⁵ | 15 mg/kg IV once |
| Methylprednisolone | 21 days ⁶ | 100 pg/mL in plasma or serum | Intra-articular as methylprednisolone acetate | 100 mg total in one articular space ⁷ |

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⁵ An oral dose may be utilized but longer withdrawal time may be required to fall below the threshold. Trainers using methocarbamol orally for multiple days are encouraged to have the horse tested prior to entry.

⁶ Trainers using methylprednisolone acetate outside the administration parameters described are encouraged to have the horse tested prior to entry to confirm the horse tests below the 100 pg/ml threshold in plasma/serum. See, Mid-Atlantic recommendations for methylprednisolone acetate at:

<http://www.mdhorsemen.com/images/PDF/MRCBooklet.pdf> (page 4).

⁷ Note: At the 100 mg experimental dose, the safe time for administration to fall below the 100 pg/mL threshold was 21 days – a smaller dose may be utilized which may allow plasma concentrations to fall below the threshold in fewer than 21 days.

| <i>Substance</i> | <i>Withdrawal Guideline⁸</i> | <i>Threshold</i> | <i>Route of Administration</i> | <i>Experimental Administration Dosage</i> |
|-----------------------------------|---|---|--------------------------------|---|
| Omeprazole | 24 hours | omeprazole sulfide - 10 ng/mL in serum/plasma | Orally | 2.2 grams once daily for 4 days |
| Phenylbutazone | 24 hours ⁹ | 2 mcg/mL of serum or plasma | Intravenous | 4.0 mg/kg |
| Prednisolone | 48 hours | 1 ng/ml of serum or plasma | Orally | 1 mg/kg |
| Procaine penicillin ¹⁰ | Time of entry | 25 ng/mL of serum or plasma | Intra-muscular | 17 mg/kg |
| Ranitidine | 24 hours | 40 ng/ml of plasma or serum | Orally | 8 mg/kg twice daily for 7 doses |
| Triamcinolone acetonide | 7 days | 100 pg/mL of plasma or serum | Intra-articular | 9 mg total in one articular space |
| Xylazine | 48 hours | 200 pg/ml of plasma or serum | Intravenous | 200 mg |

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⁹ This withdrawal guideline is based upon the historic prohibition on administration within 24 hours of racing. Please note that intravenous administration at a dose of 4 mg/kg at 24 hours before racing may result in some phenylbutazone concentrations that exceed the regulatory threshold.

¹⁰ Requires: 1. Mandatory notification of procaine penicillin administration and 2. mandatory surveillance at the horse owner's expense for 6 hours before racing. Contact your local racing jurisdiction for specific procedures.

(13) Multiple Medication Violations (MMV)

- (a) A trainer who receives a penalty for a medication violation based upon a horse testing positive for a Class 1-5 medication with Penalty Class A-D, as provided in the most recent version of the ARCI Uniform Classification Guidelines for Foreign Substances, shall be assigned points as follows:

| Penalty Class | Points If Controlled Therapeutic Substance | Points If Non-Controlled Substance |
|----------------------|--|------------------------------------|
| Class A ⁵ | N/A | 6 |
| Class B | 2 | 4 |
| Class C | 1 | 2 |
| Class D | ½ | 1 |

- (b) The points assigned to a medication violation by the Stewards or Commission ruling shall be included in the ARCI official database and the ARCI shall assign points consistent with Section 13(a) for advisory purposes for medication violations where points have not been assigned by regulatory action. Points assigned by such regulatory ruling or by the ARCI shall reflect, in the case of multiple positive tests as described in paragraph (d), whether they shall thereafter constitute a single violation. The Stewards' or Commission Ruling shall be posted on the official website of the Commission and within the official database of the Association of Racing Commissioners International. If an appeal is pending, that fact shall be noted in such Ruling. No points shall be applied until a final adjudication of the enforcement of any such violation.
- (c) A trainer's cumulative points for violations in all racing jurisdictions shall be maintained by the Association of Racing Commissioners International. Once all appeals are waived or exhausted, the points shall immediately become part of the trainer's official ARCI record and shall be considered by the Commission in its determination to subject the trainer to the mandatory

⁵ Except for Class 1 and 2 environmental contaminants, e.g., cocaine which shall be determined by the stewards based upon the facts of the case.

enhanced penalties by the Stewards or Commission as provided in this regulation.

- (d) Multiple positive tests for the same medication incurred by a trainer prior to delivery of official notice by the commission may be treated as a single violation. In the case of a positive test indicating multiple substances found in a single post-race sample, the Stewards may treat each substance found as an individual violation for which points will be assigned.
- (e) The official ARCI record shall be used to advise the Stewards or Commission of a trainer's past record of violations and cumulative points. Nothing in this administrative regulation shall be construed to confer upon a licensed trainer the right to appeal a violation for which all remedies have been exhausted or for which the appeal time has expired as provided by applicable law.
- (f) The Stewards or Commission shall consider all points for violations in all racing jurisdictions as contained in the trainer's official ARCI record when determining whether the mandatory enhancements provided in this regulation shall be imposed.
- (g) In addition to the penalty for the underlying offense, the following enhancements shall be imposed upon a licensed trainer based upon the cumulative points contained in his/her official ARCI record:

| Points | Suspension in days |
|------------|--------------------|
| 3-5.5 | 30 |
| 6-8.5 | 60 |
| 9-10.5 | 180 |
| 11 or more | 360 |

MMP's are not a substitute for the current penalty system and are intended to be an additional uniform penalty when the licensee:

- (i) Has more than one violation for the relevant time period, and
 - (ii) Exceeds the permissible number of points.
- (h) The suspension periods as provided above, shall run consecutive to any suspension imposed for the underlying offense.

- (i) The Stewards' or Commission Ruling shall distinguish between the penalty for the underlying offense and any enhancement based upon a Stewards or Commission review of the trainer's cumulative points and regulatory record, which may be considered an aggravating factor in a case.
- (j) Any trainer who has received a medication violation may petition the ARCI to expunge the points received for the violation for the purpose of the MMV system only. The points shall be expunged by the ARCI or upon request of the trainer as follows:

| Penalty Classification | Time to Expungement |
|------------------------|---------------------|
| A | Permanent |
| B | 3 years |
| C | 2 years |
| D | 1 year |

C. Medication Restrictions

- (1) A finding by the commission approved laboratory of a prohibited drug, chemical or other substance in a test specimen of a horse is prima facie evidence that the prohibited drug, chemical or other substance was administered to the horse and, in the case of a post-race test, was present in the horse's body while it was participating in a race. Prohibited substances include:
 - (a) Drugs or medications for which no acceptable threshold concentration has been established;
 - (b) Controlled therapeutic medications in excess of established threshold concentrations or administration within the restricted time period as set forth in the ARCI Controlled Therapeutic Medication Schedule, Version 2.2,;
 - (c) Substances present in the horse in excess of concentrations at which such substances could occur naturally; and
 - (d) Substances foreign to a horse at concentrations that cause interference with testing procedures.
- (2) Except as otherwise provided by this chapter, a person may not administer or cause to be administered by any means to a horse a prohibited drug, medication, chemical or other substance, including any restricted medication pursuant to this chapter during the 24-hour period before post time for the race in which the horse is entered.