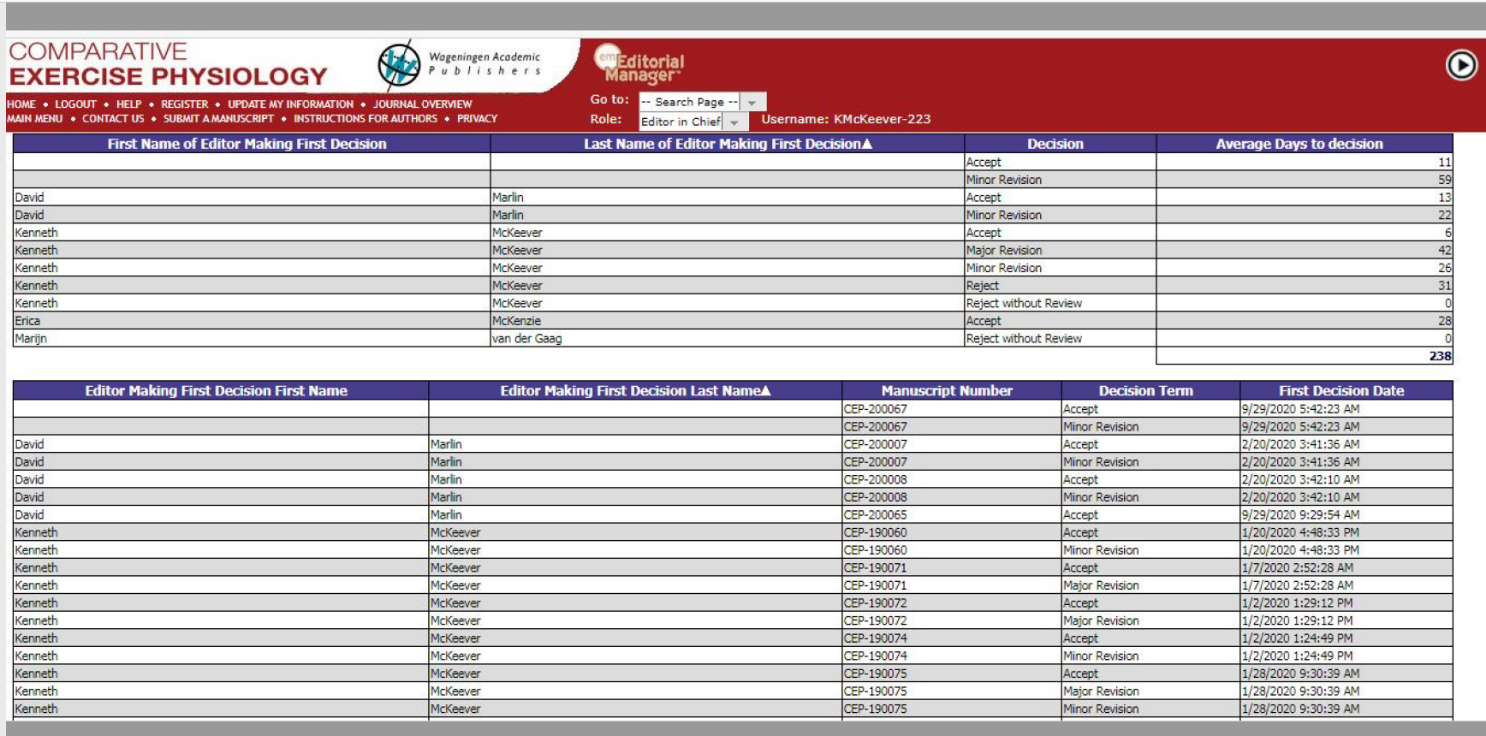
Appendix A:

Manuscripts assigned to Editor-in-Chiefs and Typical Turnaround Times for Comparative Exercise Physiology:



Appendix B:

RMTC Controlled Therapeutic Medication Dose/Dosage That Do Not Adhere To Label Dose or

Veterinary Medical Recommendations

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| RMTC Substance | Recommended Dose |  | RMTC dose matches R.D. | Reference |
| Acepromazine | 0.04 to 0.08 mg/kg |  | yes\* | Label dose |
| Albuterol | 360 mcg inhaled dose |  | no | Derksen et al., 1999 |
| Betamethasone | 9 to 18 mg |  | yes\* | Label dose |
| Butorphanol | 0.1 mg/kg |  | yes | Label dose |
| Cetirizine | 0.2 - 0.4 mg/kg |  | yes | Olsen et al., 2008 |
| Cimetidine | 20 mg/kg q8h |  | no | Nieto et al., 2001 |
| Clenbuterol | .8 mcg 2X daily |  | Yes\* | Label dose |
| Dantrolene | 800 mg |  | no | Edwards et al., 2003 |
| Detomidine | 10 to 20 mg |  | no | Label Dose |
| Dexamethasone | 0.05 mg/kg to 0.1 mg/kg |  | Yes\* | LeClere et al., 2010  Cornelisse et al., 2004 |
| DMSO | 1 g/kg |  | No | Manjunath 2013 |
| Flunixin | 1.1 mg/kg |  | yes | Label Dose |
| Furosemide |  |  | n/a |  |
| Glycopyrrolate | 1 mg |  | yes | Rumpler et al., 2011 |
| Isoflupredone | 5-20 mg |  | Yes | Label Dose |
| Ketoprofen | 2.2 mg/kg |  | yes | Label Dose |
| Lidocaine | 200 mg |  | yes | Label Dose |
| Mepivicaine | 3 to 50 mL |  | no | Label Dose |
| Methocarbamol | 15 - 44 mg/kg daily |  | No |  |
| Methylpred | 20-40 mg over multiples joints |  | Yes\* |  |
| Omeprazole | 28 days of treatment |  | no | Label Dose |
| Phenylbutazone | 4.4 mg/kg |  | no | Label Dose |
| Prednisolone | 2 mg/kg |  | No | LeClere et al., 2010 |
| Procaine |  |  | n/a |  |
| Triamcinolone | 6-18 mg/kg |  | Yes\* | Label dose |
| Xylazine | 1.1 m/kg |  | no | Label Dose |

\*RMTC recommendation does not cover all label or

Appendix C:

RMTC Controlled Therapeutic Medication Dose/Dosage That Used

fewer than 20 horses to determine Threshold

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| RMTC Substance | Number of horses |  | Meets or exceeds RMTC “required” 20 horses | Reference |
| Acepromazine | 15 |  | No\* | Knych et al., 2017 |
| Albuterol | 6 |  | No | Weider et al., 2014 |
| Betamethasone | 19 |  | No\* | Knych et al., 2017 |
| Butorphanol | 10 |  | No | Knych et al., 2012 |
| Cetirizine | 9 |  | No | Knych et al., 2016 |
| Cimetidine | 9 |  | No | Knych et al., 2016 |
| Clenbuterol | 22 |  | Yes | Knych et al., 2014 |
| Dantrolene | 8 |  | No | Knych et al., 2010 |
| Detomidine | unknown |  | unknown | unknown |
| Dexamethasone | 6 |  | No† | Soma et al, 2012 |
| DMSO | Unknown |  | Unknown | unknown |
| Flunixin | 16 |  | No\* | Knych et al., 2014 |
| Furosemide | 8 |  | No |  |
| Glycopyrrolate | 6 |  | No | Rumpler et al., 2010 |
| Isoflupredone | 8 |  | No | Knych et al., 2016 |
| Ketoprofen | 8 |  | No | Knych et al., 2015 |
| Lidocaine | 6 |  | No\* | RMTC data provided by Mary Scollay |
| Mepivicaine | 6 |  | No | FEI detection time document |
| Methocarbamol | 20 |  | Yes | Rumpler et al., 2013 |
| Methylpred | 16 |  | No | Knych et al., 2013 |
| Omeprazole | 9 |  | No | Knych et al., 2016 |
| Phenylbutazone | 17 |  | No | Knych et al., 2019 |
| Prednisolone | 7/5 |  | No |  |
| Procaine | n/a |  |  |  |
| Triamcinolone | 12 |  | No | Knych et al., 2013 |
| Xylazine | 16 |  | No |  |

\*Even with the lower number, the study does not support the threshold promulgated by the RMTC

†Study purportedly evaluates the horses studied for the purpose of establishing a threshold, but the study could actually not possibly

Appendix D:

Oxygen Consumption related to Age

Figure 1: Tables from McKeever et al., 2021, the paper in question.

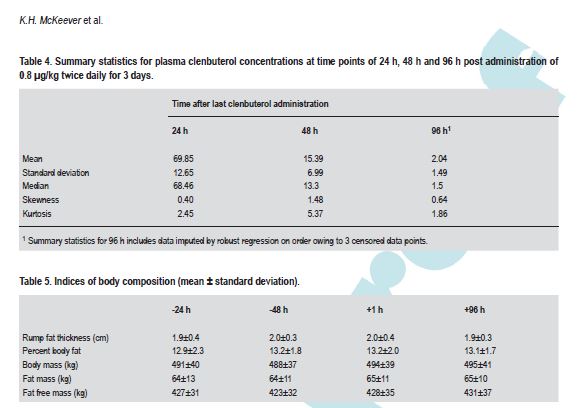


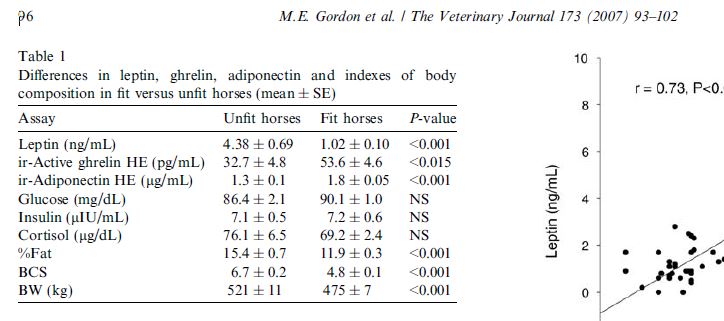
Figure 2. From Gordon et al., 2007, some body composition parameters.

Figure 3. Excel spreadsheet showing body weights from other studies from the Rutgers laboratory.

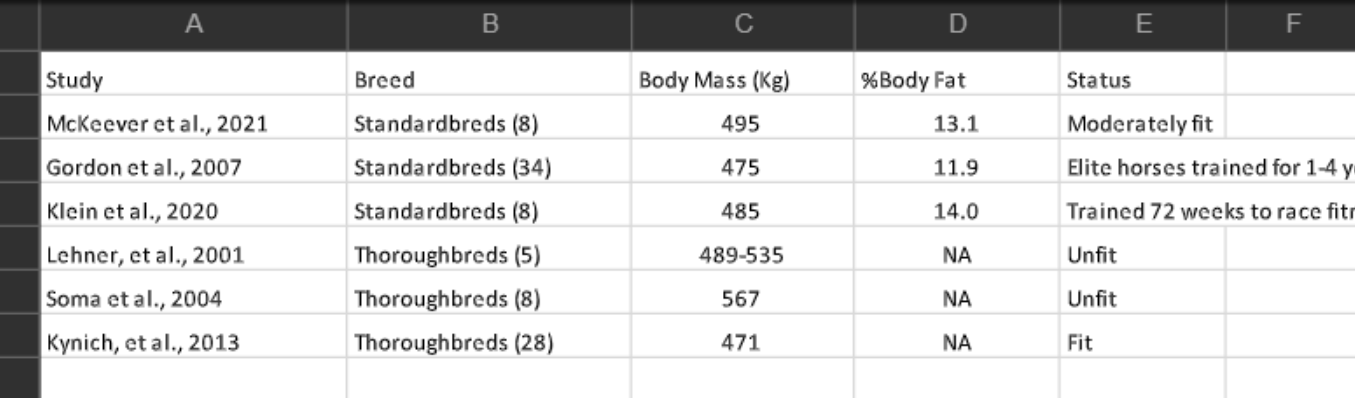
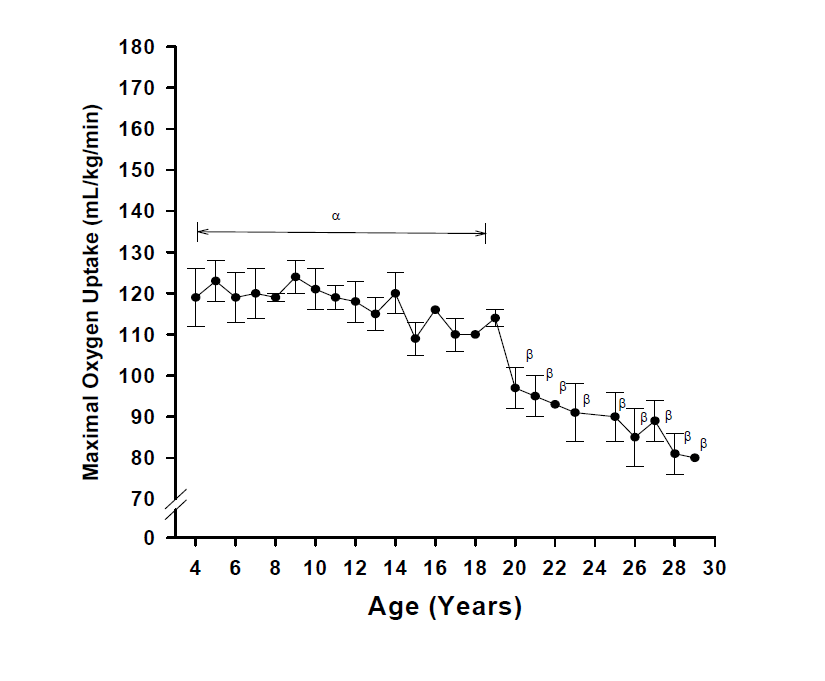


Figure 4. There is no physiologic difference in cardiovascular, endocrine and metabolic responses to exercise in Standardbreds from 4- 16 years.



APPENDIX E

RMTC Controlled Therapeutic Medication Weight and ages of horses used to establish the threshold

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| RMTC Substance | Weight of Study Horses (kg) | Age of Study Horses (yr) | Breed | Reference |
| Acepromazine | 528 +/- 42 | 4 - 7 | TB | Knych et al., 2018 |
| Albuterol | 442 – 489 | 4 - 8 | TB | Weider et al., 2014 |
| Betamethasone | Not given | Not given | TB | RMTC Online Publication |
| Butorphanol | 500 +/-25 | 3 - 8 | TB | Knych et al., 2012 |
| Cetirizine | 474 – 590 | 4 - 9 | TB | Knych et al., 2016 |
| Cimetidine | 429 – 620 | 4 - 9 | TB | Knych et al., 2016 |
| Clenbuterol | 470 +/-25 | 2 - 6 | TB | Knych et al., 2014 |
| Dantrolene | 582 +/- 51 | 10 +/- 4 | TB | Knych et al., 2010 |
| Detomidine | Unknown | Unknown |  | Unknown |
| Dexamethasone | 523.5 +/-44 | 6 - 10 | TB | Soma et al, 2012 |
| DMSO | Unknown | Unknown |  | Unknown |
| Flunixin | 535 +/-33 | 4 - 7 | TB | Knych et al., 2014 |
| Furosemide |  |  |  |  |
| Glycopyrrolate | 445 – 510 | 4 - 9 | SB | Rumpler et al., 2010 |
| Isoflupredone | 492 – 600 | 4 - 8 | TB | Knych et al., 2016 |
| Ketoprofen | 512 +/- 31 | 4 - 7 | TB | Knych et al., 2015 |
| Lidocaine | Not given | Not Given |  | RMTC data provided by Mary Scollay |
| Mepivicaine | Unknown | Unknown |  | FEI detection time |
| Methocarbamol | 468 – 605 | 5 - 10 | TB | Rumpler et al., 2013 |
| Methylpred | 492 – 600 | 4 - 8 | TB | Knych et al., 2013 |
| Omeprazole | 429 – 620 | 4 - 9 | TB | Knych et al., 2016 |
| Phenylbutazone | 501 +/- 36 | 3 - 6 | TB | Knych et al., 2019 |
| Prednisolone | Not given | 13 - 30 | Mixed | Unknown |
| Procaine | na | na |  |  |
| Triamcinolone | Not given | 3 - 6 | TB | Knych et al., 2013 |
| Xylazine | 419 – 610 | 4 - 7 | TB | Knych et al., 2016 |

APPENDIX F

RMTC Controlled Therapeutic Medication Thresholds that are Permissive of Administration within the Published Withdrawal Period

|  |  |  |  |
| --- | --- | --- | --- |
| RMTC Substance | Permissive of Administration within the Withdrawal period |  | Reference |
| Acepromazine | possible |  | Knych et al., 2017 |
| Albuterol | at 24 h 6/6 horses under thr |  | Weider et al., 2014 |
| Betamethasone | at 96h 12/12 under thr |  | Knych et al., 2017 |
| Butorphanol | possible at 6 h |  | Knych et al., 2012 |
| Cetirizine | at 24h 8/9 below thr |  | Knych et al., 2016 |
| Cimetidine | possible at 24h |  | Knych et al., 2016 |
| Clenbuterol | possible |  | Knych et al., 2014 |
| Dantrolene | at 36 h possible |  | Knych et al., 2010 |
| Detomidine | Unknown |  | unknown |
| Dexamethasone | at 48 h 68/75 below thr |  | McClure et al., 2021 |
| DMSO | Unknown |  | unknown |
| Flunixin |  |  |  |
| Furosemide |  |  |  |
| Glycopyrrolate | at 24h 8/8 below thr |  | Rumpler et al., 2010 |
| Isoflupredone | at 48h 12/12 below thr |  | Knych et al., 2016 |
| Ketoprofen | at 24 h 8/8 below thr |  | Knych et al., 2015 |
| Lidocaine | at 48h 6/6 below thr |  | RMTC data provided by Mary Scollay |
| Mepivicaine |  |  |  |
| Methocarbamol |  |  |  |
| Methylpred | at 6 days for ankles and knees |  | Machin et al., 2018 |
| Omeprazole |  |  |  |
| Phenylbutazone |  |  |  |
| Prednisolone |  |  |  |
| Procaine |  |  |  |
| Triamcinolone | at 5 d 12/12 below thr |  | Knych et al., 2013 |
| Xylazine |  |  |  |

**APPENDIX G**

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**APPENDIX F:**

Detailed critique of the RMTC Controlled Medication Schedule, by Substance