FACULTY OF HEALTH AND MEDICAL SCIENCES
UNIVERSITY OF COPENHAGEN

Master's Thesis

Diurnal Pattern and Variation of Electrocardiographic QT Interval in Healthy Resting Horses

Sine Bomskov Møller

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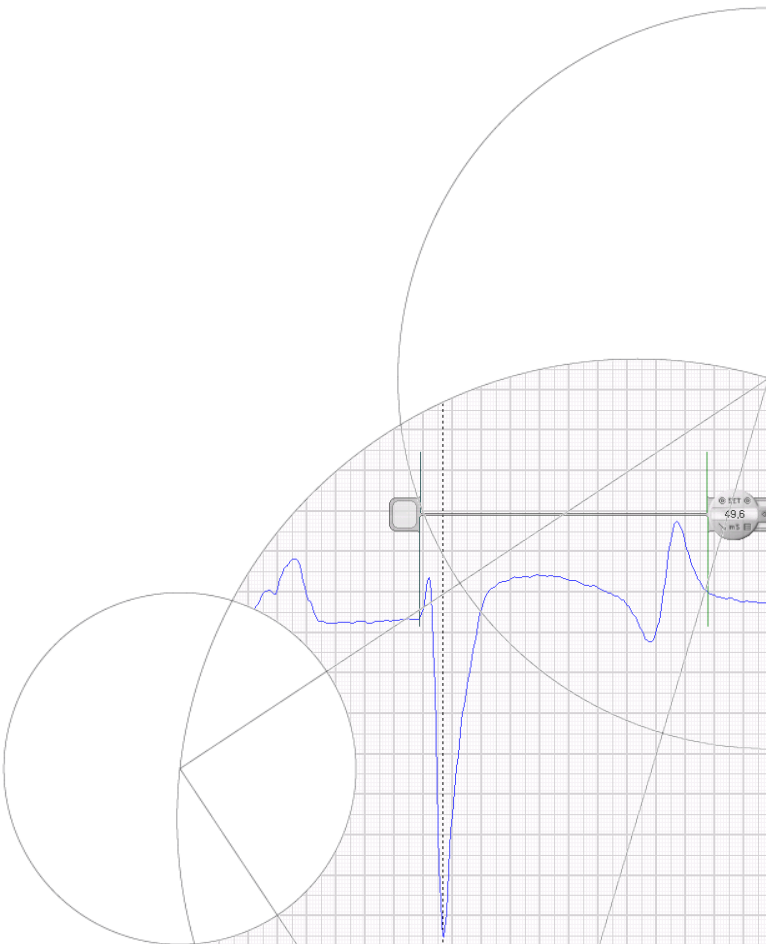

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Preface

This report is written as a part of a Master's Thesis in Veterinary Medicine. The project was made as part of the work within the Equine Cardiac Group. The Equine Cardiac Group is collaboration between the Department of Large Animal Sciences, the Department of Basic Animal and Veterinary Sciences and the Laboratory of Experimental Cardiology, the Department of Biomedical Sciences at the University of Copenhagen**.** It has been my great pleasure working as part of an engaged team so strongly dedicated to their field.

The article is the outcome of this thesis. The requirements of the Journal of Veterinary Cardiology have been used as a guideline. In order to accommodate the nature of the thesis project, an extended theoretical background is presented with the introduction. Perspective and further considerations of the project are described in the end of the report in the context of the other work done in the Equine Cardiac Group.

All illustrations and tables are made by the author, including the title page picture.

A great thank you to Philip Pedersen for lively discussions, pitching ideas, a lot of work, help with the data and support in the late hours. Rikke Buhl, for your optimism that brightens the day, giving me responsibility and constructively guiding my writing.

Thank you, family and friends for support, cheer and worry throughout the process. Thank you, Katharina Opstrup for proof reading the article. Gardehusarregimentet Hesteskadron and the Large Animal Hospital, University of Copenhagen for supplying the horses used in this study making it possible in the first place.

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Sine Bomskov Møller 19.04.2013

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Abstract

Objectives: The objective of this study was to describe the diurnal variation of HR and QT_c and estimate sources of variance of QT_c in healthy horses at rest.

Animals: 12 warmblood sport horses, geldings.

Methods: 2 stables (n=6) were recorded with Holter/telemetric ECG for 24 hours on day 1, 7 and 14. RR, QT_{peak} and QT were measured manually with on-screen calipers by one observer. QT was corrected for HR using equine specific linear regression. Five consecutive heart beats were averaged for each hour. Diurnal pattern was described by one-way ANOVA between evening (14:00-21:00), night (22:00-05:00) and morning (06:00-12:00) intervals of HR, QT, QT_c and $Slope_{QT/RR}$. PROC MIXED statistical analysis was performed to describe the variance of QT_c.

Results: Average values (24 hours): HR (34.82bpm ± 4.02), QT (517.17ms ± 20.83) and QT_c (462.98ms ± 21.06). HR average significantly decreased from evening to night and morning ($P < 0.001$). QT_c average evening was significantly higher compared to night ($P < 0.0483$). No significant difference was found between $Slope_{QT/RR}$ time periods ($P = 0.2882$). Time and day had significantly systematic fixed effect. Sources of QT_c variance: 55.21% between horses, 22.98% between stables, 5.37% day-to-day (within horse) and 16.43% residuals.

Conclusions: The longest average QT_c was in the evening where HR was highest. QT_c was longer on day 1 compared to day 2 and 3. This is different from what is found in humans. Serial correlation was modelled successfully. Age had no significant effect. Great individuality was found among horses. Sources of QT_c variance should be considered in thorough QT studies.

Resumé

Formål: at undersøge døgnvariationen af puls og QT hos hvilende heste og estimere variansen af QT.

Dyr: 12 varmblodsheste, vallakker.

Metode: 2 stalde (n = 6) blev optaget i 24 timer med Holter/telemetri EKG på dag 1, 7 og 14. RR, QT_{peak} og QT blev målt manuelt med on-screen calipers af en observatør. QT var korrigeret for puls ved hjælp af lineær regression, specifik for hest. Gennemsnittet blev taget af fem efterfølgende hjerteslag for hver time. Døgnvariationen af puls, QT, QT_c og $Hældning_{QT/RR}$ blev testet mellem

aften (14:00-21:00), nat (22:00-05:00) og morgen (06:00-12:00) med envejs ANOVA. PROC MIXED statistisk analyse blev brugt til at kvantificere variansen af QT_c.

Resultat: Gennemsnitsværdier (24 timer): puls (34,82slag/min ± 4,02), QT (517,17msek ± 20,83) and QT_c (462,98msek ± 21,06). Gennemsnitspulsen var signifikant højere om aftenen sammenlignet med nat og morgen ($P < 0,001$). Gennemsnits QT_c var signifikant højere om aftenen sammenlignet med nat ($P < 0,0483$). Der var ingen signifikant forskel mellem $Hældning_{QT/RR}$ for de tre tidsperioder ($P = 0,2882$). Tid og dag havde en signifikant effekt. Variansen af QT_c var delt mellem følgende: 55,21 % mellem heste, 22,98 % mellem stalde, 5,37 % dag-til-dag (indenfor hest) og 16,43 % residual.

Konklusion: QT_c var længst om aftenen, hvor pulsen var højest. Der var ingen forlængelse af QT_c om morgenen. QT_c var signifikant forlænget på dag 1. Tid og dag havde signifikante fixede effekter. Den serielle korrelation forbedrede modellen. Alder havde ingen signifikant effekt. Den enkelte hest varierer i forhold til andre heste, mellem stalde og indenfor sig selv. Variansen af QT_c bør inkluderes i QT studie design".

Abbreviations

AIC - Akaike Information Criterion, describing the amount of data lost by modelling, lower is better.

Bpm – beats per minute

Double delta ($\Delta\Delta QT_c$) - $(QT_{c,\ baseline,\ treatment} - QT_{c,\ treatment}) - (QT_{c,\ baseline,\ placebo} - QT_{c,\ placebo})$

ECG – electrocardiography

HR – heart rate

LQTS – long QT syndrome

QT_c – QT corrected for heart rate

QT_{60} – QT at 60 bpm

Keywords

ECG, QT_c, equine, diurnal variation, sources of variance

1. Introduction

The foundation of surface electrocardiography (ECG) is electrical changes in cardiomyocytes as the cells depolarise (Na^+ influx) or repolarise (K^+ efflux, Ca^{2+} influx) through selective voltage-dependent ion-channels.[1] The difference in electrical charge across the heart is visible as positive or negative deflection over a lead (+/-) on the surface ECG.[2] The deflections are named and associated with specific events of the cardiac cycle (Fig. 1).[1] Standardised body and limb positions are published as well as guides for exercise ECG.[2-4] The standard base-apex is commonly used, with various modifications. No generally accepted gold standard is available for horses[2].

FIGURE 1. Electrocardiographic measures. P wave: atrial contraction, QT-interval: ventricular depolarisation and repolarisation, QRS complex: ventricular depolarization, ST-segment: ventricular repolarisation, RR: pulse.

Prolongation of ventricular repolarisation is of great interest due to the associated increased risk of arrhythmias potentially lead to ventricular fibrillation, torsades de points (TdP) and sudden death.[5,6] Diagnostic and prognostic measuring of QT are of great value to human cardiology.[7] Thus, inherited and acquired long QT syndrome (LQTS) are of particular interest in genetics and pharmacology research, respectively. Myocardial potassium channels and their mutations have been described and these are associated with disease and risk in humans.[8,9]

To estimate a prolongation of the QT-interval in the clinical drug development a thorough QT study must be performed. Guidelines published by IOC addresses study design, QT correction formulas, sensitivity, inter-observer variability and implications.[5] QT_c interval prolongation of no more than 10 ms (upper 1-sided 95% CI) is acknowledged as a negative result. Also, a positive control (i.e. single dose moxifloxacin, 400 mg) is required to show minimum one time point more than 5 ms

prolongation (lower 1-sided 95% CI) compared to the baseline of placebo.[5] Standardization is essential in order to test a potential QT prolongation and ensure drug safety.[10]

Some drugs are known to prolong QT_c i.e. quinidine (antiarrythmic), moxifloxacin (antibiotic) and cisapride (gastroprokinetic)[11] through blockade of the KCNH2 channel (I_{kr}).[12] The potassium currents I_{Ks}, I_{Kur} and I_{Kr} are main contributors to the repolarisation of the cardiac cells in humans, dogs and horses.[1,8,13] Furthermore, I_{kur} is found in ventricular myocardium in horses.[1] Theoretically, this makes horses susceptible for induced LQTS. Quinidine has been reported to cause sudden death in horses, and it is known for a narrow therapeutic window.[1,14] Except for rising the heart rate (HR), Cisapride has no reported cases of severe side effects in horses.[15, 1] Arrhythmias are frequently found in performance horses, especially during the recovery period.[16,17] The prevalence of arrhythmias at rest is considered normal, as long as they disappear during exercise. Sudden death has been reported in high performance horses.[18,19] In the case of a heart attack, determination of the cause of death by post mortem investigation is not possible. The prevalence of arrhythmias found in apparent healthy horses could be linked to sudden death in horses, since arrhythmias and LQTS are not visible post mortem. [18, 19]

The QT interval is HR dependent and shortens when HR rises. Therefore, it is crucial that correction for HR is included when evaluating QT interval´s. Bazett's and Friderizia's correction models are most commonly used in human medicine.[7,20] These models are widely discussed due to their over - and under correcting of QT_c. An equine specific correction model with reference values for QT intervals was published in 2013.[21] This model separates itself from the human models by being piecewise linear. Correction models calculate the QT_c, but other approaches have been described i.e. beat-to-beat method and linear regression (QT_{60}).[22,23] The QT_{60} enables correction without assumptions of the nature of the QT/RR relationship.[7] The measured QT interval is projected with linear regression to the QT_{60}, based on the predictive graph. This method is applicable on the piecewise linear model and can be used for direct plot of QT_c or with a double delta QT_c approach.[24] The double delta QT_c is expressed as $(QT_{c,\ baseline,\ treatment} - QT_{c,\ treatment}) - (QT_{c,\ baseline,\ placebo} - QT_{c,\ placebo})$.

HR has been described at rest and during exercise in horses and humans.[3,16,17,25] It is characterised in horses by adapting fast to a given workload and with a great variation at rest.[3,26] Variability of PQ, QT and RR, expressed as the difference between the longest and shortest interval, at rest and after exercise has been described in Arabian horses.[27] Variability of PQ and RR was higher at rest

than after exercise. QT variability was not significantly different between the rest and after exercise. PQ and RR intervals were 2 times smaller after exercise, whereas QT was stable.[27] Investigation of the relationship between HR and ECG time intervals and the body weight (BWT) in horses showed a significant inverse relation between RR and BWT. Also, a significant positive relationship between PQ interval and BWT and QRS duration and BWT were found. The relation between QT and BWT was mainly derived from the QT/HR relationship.[28] One study suggested that a QT intervals with a short but normal QRS complexes had more "slack" within the reference-value before QT was considered prolonged.[29] It was suggested to use the JT interval instead of the QT interval, to accommodate this potential confounder, since pathological and pharmacological effects seemed restricted to this interval.[30] One study in humans showed a correlation between variability of QT and sudden death.[31] However, knowledge about variability of QT and QT_c between and within horses or days is sparse.

Studies in humans and dogs have shown a diurnal pattern of the QT interval characterized by a prolonged QT interval, when sleeping and in the early morning hours.[32-35] The diurnal QT-interval pattern in humans is related to the sympathovagal tonus during sleep and sympathetic activity during the day.[32,33] Significant decrease of QT_c between two recording days suggested modest effect of accustoming to the research environment together with a lack of diurnal variation.[36] One study showed effect of administering atropine or propanolol suggesting that parasympathetic reactivation and withdrawal of sympathetic tonus had an influence on recovery of HR after exercise in horses.[26] This differed from what is found in humans, where the main contributor of HR recovery is thought to be parasympathetic reactivation. These findings suggest that horses have a different autonomic control of the cardiovascular system than humans.[26] Thus, diurnal variation could differ in horses from what is found in humans.

In order to develop the QT interval as a solid diagnostic and prognostic tool in horses more knowledge on the variability of QT_c is necessary. The objective of this study was to describe the diurnal variation of HR and QT_c and estimate contributing factors of variance in QT_c of healthy horses at rest.

2. Animals, materials and methods

24-hour three lead surface ECG with telemetric and Holter mode was performed from ultimo February 2013 until mid March 2013, as a cross-sectional study. The study was approved by the ethical committee, Department of Large Animal Sciences, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark.

2.1 Animals

From 75 horses[a], 12 geldings were chosen based on the location in the stables, availability and health status. The horses were enrolled though a general clinical examination and thorough auscultation of the heart. One horse was excluded due to cardiac arrhythmia and replaced. All 12 horses included (6 – 22 years; mean 10.8 years) were in training and had no recent history of drug administration. Body mass (kg) was estimated (chest girth, cm)^2 x (body length, cm) ÷ 11877[37] (594 – 727 kg, mean 652 kg). The horses were riding horses of various breeds eight Danish Warmblood, two Oldenburger, one Dutch Warmblood and one Holsteiner. Six horses were recorded at a time due to recording capacity. No procedures were changed in the stable (feeding, cleaning, etc.) during the 24 hour study period. Lights were out between 22:00 and 05:00. Feeding was around 06:00, 14:00, 18:00 and 21:00. The horses were exercised and/or taken to the paddock in the morning, then kept in their loose box stalls until the recordings were finished the following day.

2.2 Preparation and recording

All horses were spot-clipped and degreased with alcohol to facilitate optimal contact with the four adhesive ECG electrodes[b]. The reference electrode (black) was placed below the negative electrode on the right shoulder (red) (Fig. 2). The positive left arm (yellow) electrode is placed 2 hands above the *olecranon* at the mean electrical axis and the positive left leg (green) left to the ventral midline at the end of *m. pectoralis.*[2] The ECG electrodes were secured with adhesive foam before the cables were attached and covered with tape (Fig. 2). The cables and the ECG device[c] were hold in place by a grid. Stable 1 started recording at 12:00 on day 1, 7 and 14. Stable 2 started recording the following day at 13:00 hence their days are also considered 1, 7 and 14. At least one hour of rest was allowed after exercise, before the recordings began. This time was partly used to attach the ECG. Batteries were changed at midnight. Only the author handled the horses, electrodes and monitor system during the 24 hour study period. The ECGs were stored on SD cards and monitored

[a] 3 mares and 72 geldings, Gardehusarregimentets hesteeskadron, Antvorskov kaserne, Slagelse, Denmark
[b] ECG electrodes, Kruuse, Denmark
[c] Televet 100, Roesch & Associates Information Engineering GmbH, Frankfurt am Main, Germany

and recorded on a laptop with ECG software[d]. Hourly visual control of the screen monitor and the horses was made from 7:00 to 13:00, at 03:00 and at 05:00. Loose connections or damage to the equipment was corrected immediately. After 24 hours the electrodes, ECG device, cables and grid were removed.

FIGURE 2. ECG electrode, self adhesive foam, cable and placement on right shoulder (red and black).

2.3 ECG measurement

The ECG single lead II was measured manually by SBM with two on-screen calipers[e] in ECG software[f] at 40mm/mV and 50Hz.[38] First, HR was measured as an average over ten RR intervals at 10 mm/s. This was chosen as close to the full hour as possible, no more than 5 min. to either side. HR had to be stable (middle value ± 4 bpm) and the ECG recording without 2nd degree AV-blocks, preventricular beats and background noise. Screenshots were saved from all RR interval measurements to facilitate control. QT, QT_{peak1} and QT_{peak2} were then measured at 200mm/s for five consecutive heart beats from the last average RR interval. The left end of the calliper was easily placed at the first true the up stride of the Q-wave. T_{peak1} and T_{peak2} were estimated at the most negative and positive point of the biphasic wave, respectively. T_{end} was estimated at the point where the down leg of the T-wave returns to baseline, considering background noise and shape of the wave (Fig. 3).[38] All HR, QT_{peak} and QT values were registered in a data management programme[g]. If QT_{peak1} was not present the rubric was left blank. QT_{peak1} was not included in the further analysis, and QT_{peak} therefore refers to QT_{peak2}.

[d] Televet 100, version 5.1.0 program, Roesch & Associates Information Engineering GmbH, Frankfurt am Main, Germany
[e] Cardio Calipers 3.3 tool, ICONICO, New York, NY, USA
[f] Televet 100, version 5.1.0 program, Roesch & Associates Information Engineering GmbH, Frankfurt am Main, Germany
[g] Microsoft Ofiice Excel 2007, Microsoft Corporation, Redmont, WA, USA

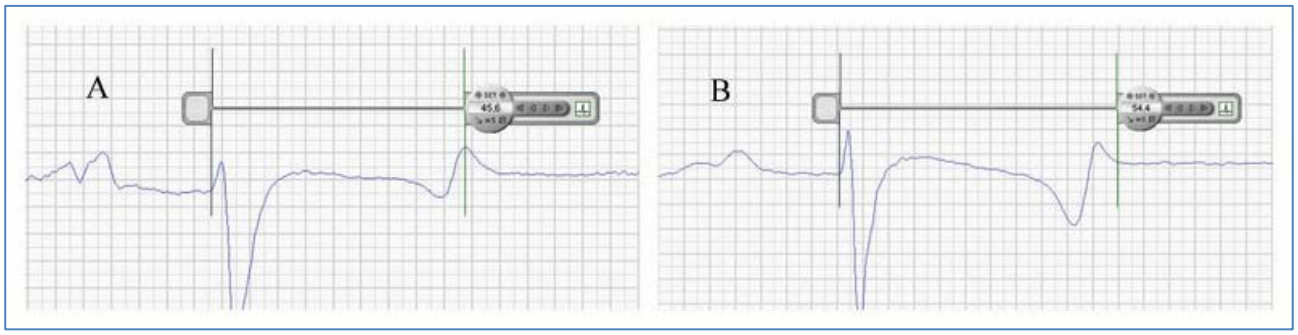

FIGURE 3. Placement of on-screen caliper measuring QT_{peak} (A) and QT (B).

2.4 Data analysis

All HR's were converted into RR intervals (RR = 60/HR). QT was corrected for HR by using the formula specific for geldings. The QT interval for the standard gelding was first calculated given the RR-interval for all data points:

$$QT_{std} = ((slope_{bend<0,8183} * Bend+b)+slope_{bend>0,8183}*(RR-Bend))*(RR>0.8183) =$$

$$((0.4501*0.8183+0.06148317)+0.0726*(RR-0.8183))*(RR>0.8183)$$

The formula: a + $slope_{bend<0,8183}$(x-bend) = y, was reduced to isolate b (value of QT in bend = the y axis start value for $slope_{bend>0,8183}$). B = 0,06148317, bend=0,8183, $slope_{bend<0,8183}$=0,4501 and $slope_{bend>0,8183}$=0,0726. (RR>0.8183) was a condition, making it possible to detect RR<bendingpoint. In all cases the RR was above 0.8183.

The difference between the standard horse and the measured QT interval at the same HR was calculated and added to the $QT_{std, 60}$ to calculate QT_c.

$$QT_c = QT_{std,60}+(QT- QT_{std}),\ QT_{std,60}=0.4429913 \text{ (calculated by } QT_{std}, RR=1)$$

The five QT_c for each hour were averaged. $T_{peak}T_{end}$ was calculated for each measurement and averaged without correction.[21]

Data was expressed as mean ± SD. Within all tests the level of statistical significance was 95% (P = 0.05). Graphic presentation and statistics were performed with suitable software[h]. One-way ANOVA was used to estimate differences between time periods (12:00-21:00, 22:00-05:00 and 06:00-13:00) and HR, QT and QT_c, respectively. Bonferroni's multiple comparison test and Barlett's test for equal variance was used to compare means of time periods and difference in

[h] GraphPad Prism v5.04 for Windows, GraphPad Software, Inc., San Diego, CA, USA.

variance between time periods, respectively. HR, RR, QT, QT_c, QT_{peak} and $T_{peak}T_{end}$ were plotted against time for all horses all days (n=36). $T_{peak}T_{end}$ was analysed with linear regression and tested against zero. Descriptive statistics of means were made pooling average values for all three days and 24 hours. PROC MIXED analysis of variance was run in statistical software,[i] modelling QT_c= day time (fixed effects), with no intercept (noint) and covariance parameters: horse, stable and horse*day. Repeated measures (time) with serial correlation was included, as AIC decreased by doing so. Stable*day, age and time*day were not significant and hence excluded (thorough statistical approach, see appendix I). Finally, QT_c was compared to Bazett's correction model[7] ($QT_{c,Bazett}$, QT_c = QT/SQRT(RR)) by re-calculating all QT measures and plotted against the QT_c, derived from Pedersen *et al.*, 2013.[21] A sample of the collected data set is available in appendix II together with the full dataset used for statistical analysis.

[i] SAS system version 9.2 for Windows, SAS Institute Inc., Cary, NC, USA.

3. Results

847 average QT_c values were calculated from 4251 QT intervals measured in 12 horses at 24 hour time points over three days. 17 full hours (1.97%) were either unavailable or of poor quality within the time-restriction.

Average values made from of 24 hour recordings are seen in table 1. For individual horses, RR explains between 0 – 55% of QT variation ($Slope_{QT/RR}$ $0<R^2<0.55$). There is no significant difference between the slopes evening, night and day (P = 0.2882).

TABLE 1. Average values at rest over 24 hours.

	N	Mean	±SD	Range	Statistics
HR	847	34.82	±4.02	23.9 - 49.3	CL: 0.271 (95%) SE: 0.138 SV: 16.16
QT	847	517.17	±20.83	543 - 580	CL: 1.405 (95%) SE: 0.716 SV: 433.72
QT_c	847	462.98	±21.06	404 - 521	CL: 1.421 (95%) SE: 0.724 SV: 443.65
QT_{peak}	874	453.64	±19.56	401 - 516	CL: 1.319 (95%) SE: 0.672 SV: 382.57
$T_{peak}T_{end}$	874	63.54	±10.36	29.2 – 92.8	CL: 0.699 (95%) SE: 0.356 SV: 107.41
$Slope_{QT/RR}$		0.03464	±0.003328		R^2 = 0.1136, P < 0.0001* CI: 0.02811 – 0.04116

CL: confidence level, SE: standard error of mean, SV: standard variation, CI: confidence interval, R^2: goodness of fit, *significantly different from zero.

3.1 Diurnal pattern of HR, QT and QT_c

HR, RR, QT, QT_c, QT_{peak} and $T_{peak}T_{end}$ for all horses are described in Fig. 4. The inverse relationship between HR and QT is demonstrated, and further confirmed by the RR and QT alignment. The variability of mean QT_c is reduced when correcting for HR as seen in Fig. 4C. As expected, $T_{peak}T_{end}$ has no significant difference from zero (P = 0.1028). QT_{peak} pattern is similar to that of QT_c, confirming that the variation of QT is not found in the $T_{peak}T_{end}$ interval. Large and similar standard deviations across time are observed in all plots, i.e. QT_{SD} ~ 40ms.

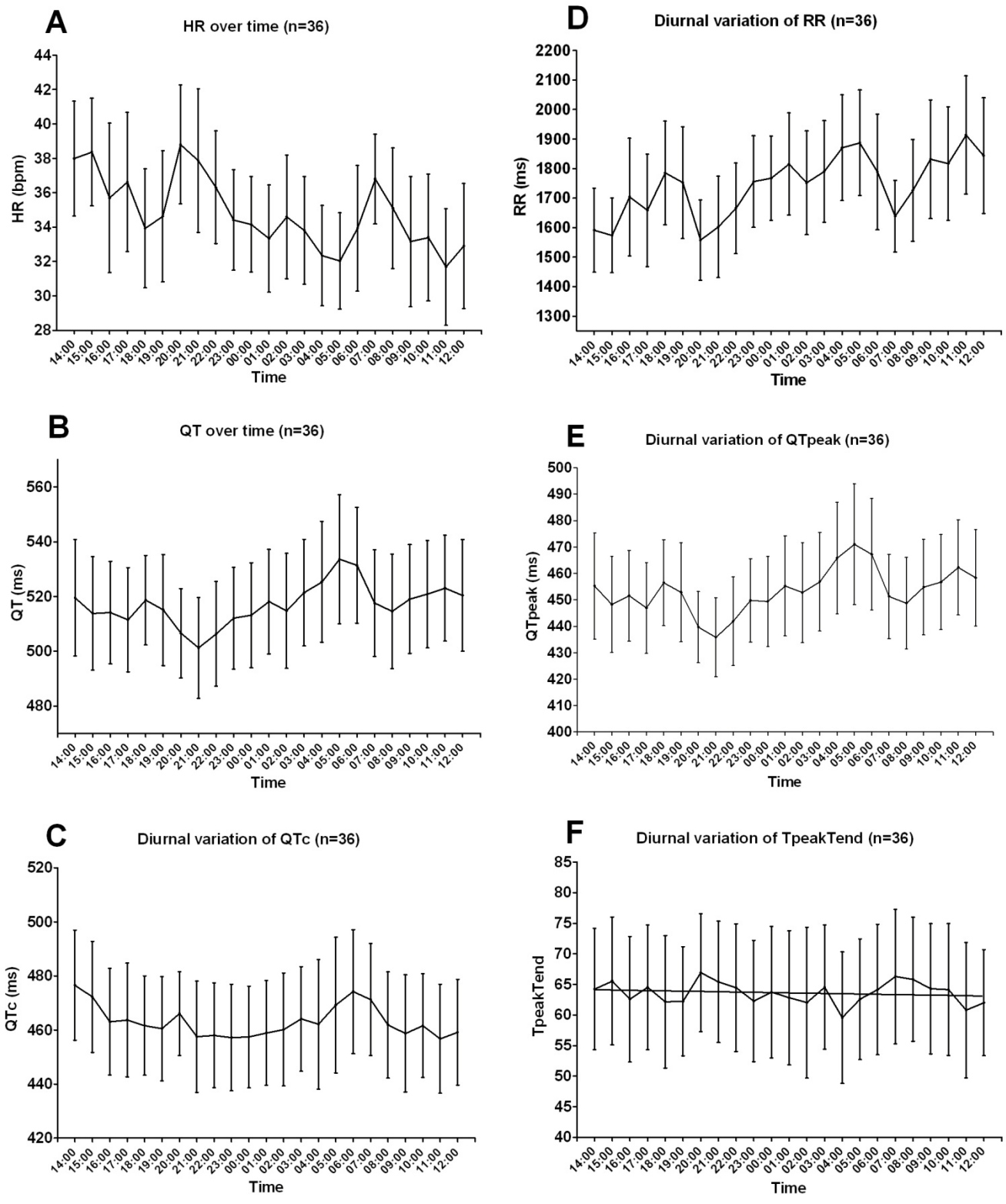

FIGURE 4: Mean of HR (A), RR (B), QT (C), QT_c(D), QT_{peak} (E) and $T_{peak}T_{end}$ (F), linear regression P = 0.1028. Error bars: standard deviation.

The diurnal variability is visible in Fig. 5. The variance between time periods was significantly different for HR (P = 0.0024). The variance of QT and QT_c were not significantly different between time periods P = 0.2571 and 0.6673, respectively. Plot of HR, QT and QT_c over 23 hours, allocated to day 1, 7 and 14 are visible in Fig. 6.

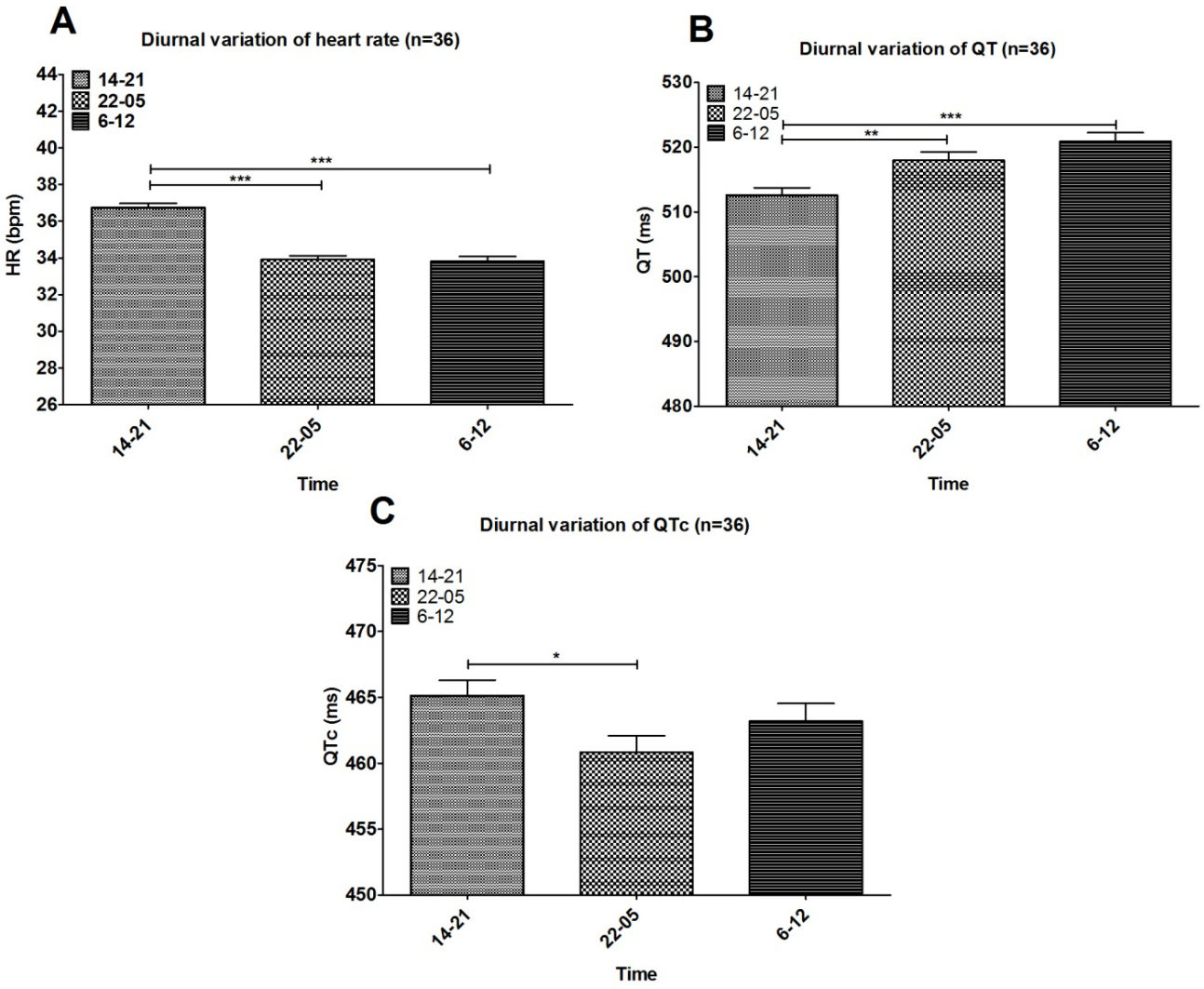

FIGURE 5. Diurnal variation of HR(A), QT(B) and QT_c(C) in three time intervals with standard deviations. *Significant difference (P < 0.0483), **Significant difference (P < 0.01), ***Significant difference (P < 0.001).

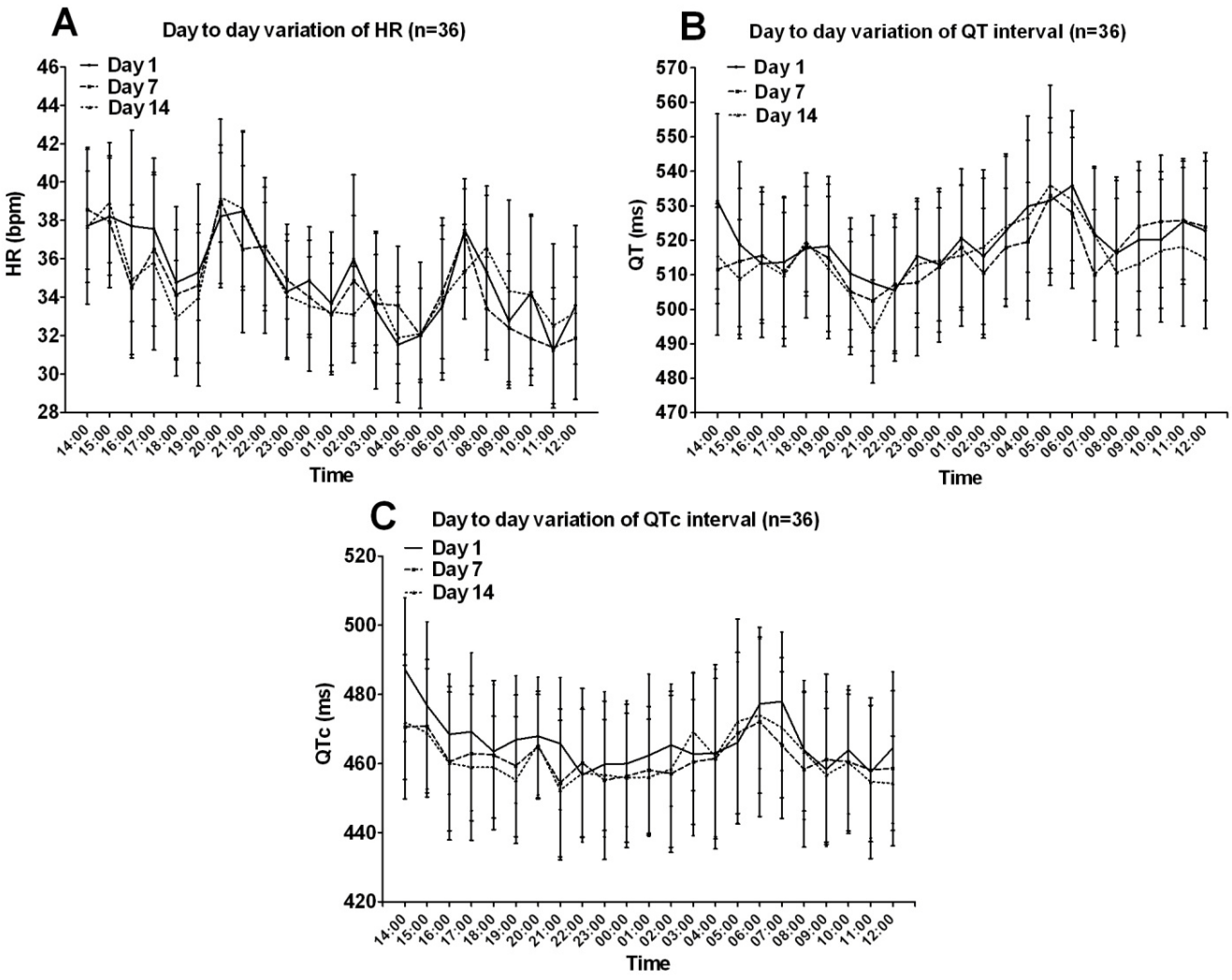

FIGURE 6. HR(A), QT(B) and QT_c(C) on day 1, 7 and 14 with standard deviations.

3.2 Variance of QT_c

The levels (intercepts) of individual curves vary from sample to sample. The total variance was given by 512.9 (horse*day + horse + stable + residual) of which 22.98 % could be explained as variation between stable 1 and 2. An additional fraction of the variance (55.21%) was due to variation between horses and the remaining part of the variance of the intercept (5.37%) had to do with day-to-day variation within the same horse (Table 2). Furthermore, serial correlation was present and interpreted as follows: the sum of variation from horse, stable and horse*day described the variance between levels (intercepts). The residual contributes to the total variance, but could be considered noise from measuring (16.43%). Time of day ($P < 0.0001$) and day ($P = 0.0007$) had a significant fixed effect on QT_c. Solutions for fixed effects are presented in table 3. The effect of stable is demonstrated in Fig. 7.

TABLE 2. Contribution to variance for covariance parameter.
AIC: 6258.1

	Estimate (%)
Horse	283.19 (55.21%)
Stable	117.87 (22.98%)
Repeat Horse*day	27.5505 (5.37%)
Residual	84.2903 (16.43%)
Total variance	512.9

TABLE 3. Solution for fixed effects. Estimates of QT_c for day 3.

Effect	Estimate QT_c	± SE	CI	
			lower	upper
13:00	479.94	12.1983	433.85	526.03
14:00	486.17	12.1085	438.90	533.43
15:00	481.75	12.1120	434.51	528.99
16:00	472.65	12.1085	425.39	519.91
17:00	473.30	12.1085	426.03	520.56
18:00	471.23	12.1085	423.96	518.49
19:00	470.09	12.1085	422.83	517.35
20:00	475.70	12.1085	428.44	522.96
21:00	467.10	12.1085	419.83	514.36
22:00	467.65	12.1085	420.39	514.91
23:00	466.79	12.1085	419.53	514.06
00:00	466.35	12.1124	419.12	513.58
01:00	467.68	12.1117	420.45	514.91
02:00	469.97	12.1145	422.76	517.18
03:00	473.28	12.1189	426.10	520.45
04:00	470.87	12.1118	423.64	518.09
05:00	478.77	12.1137	431.57	525.98
06:00	482.83	12.1165	435.65	530.00
07:00	480.24	12.1150	433.05	527.43
08:00	471.50	12.1085	424.24	518.76
09:00	468.33	12.1085	421.07	515.60
10:00	471.18	12.1085	423.91	518.44
11:00	466.37	12.1085	419.10	513.63
12:00	468.74	12.1106	421.51	515.98
13:00	462.06	12.2542	415.65	508.48
Day 1*	462.06 + 6.3992	1.5610**	3.1947**	9.6038**
Day 2*	462.06 + 1.0673	1.5605**	-2.1376**	9.6038**

SE: standard error, CI: confidence interval. For time = 13:00 6 horses were available for analysis at each point. * Day 1 and 2 were given as day 3 + estimation. **only regarding the deviation estimate and significant deviation from day 3.

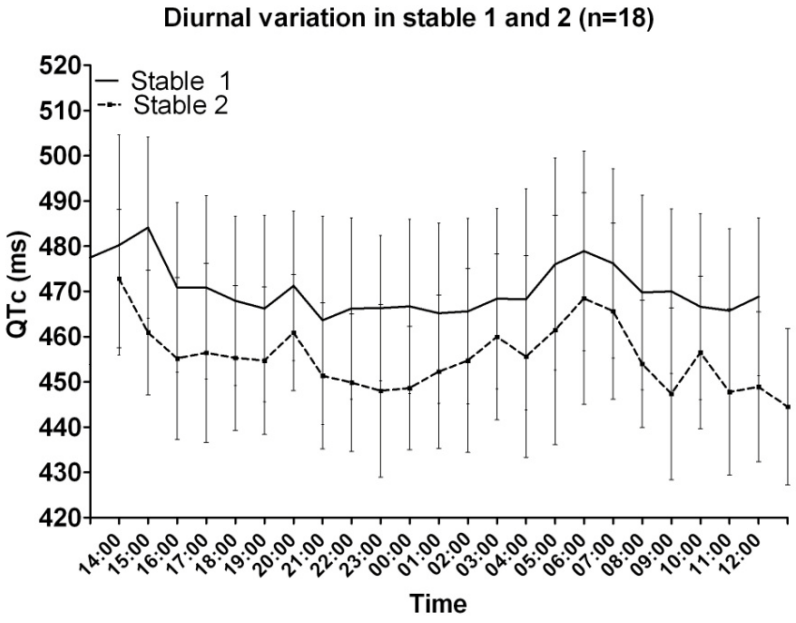

FIGURE 7. Diurnal variation of QT_c in stable 1 and 2. Error bars: standard deviation, P = 0.05.

3.3 Correction method

Plotting QT_c and $QT_{c.Bazett,}$ the two models had a very similar appearance. However the QT_c was elevated from $QT_{c.Bazett}$ by 70-80ms (Fig. 8).

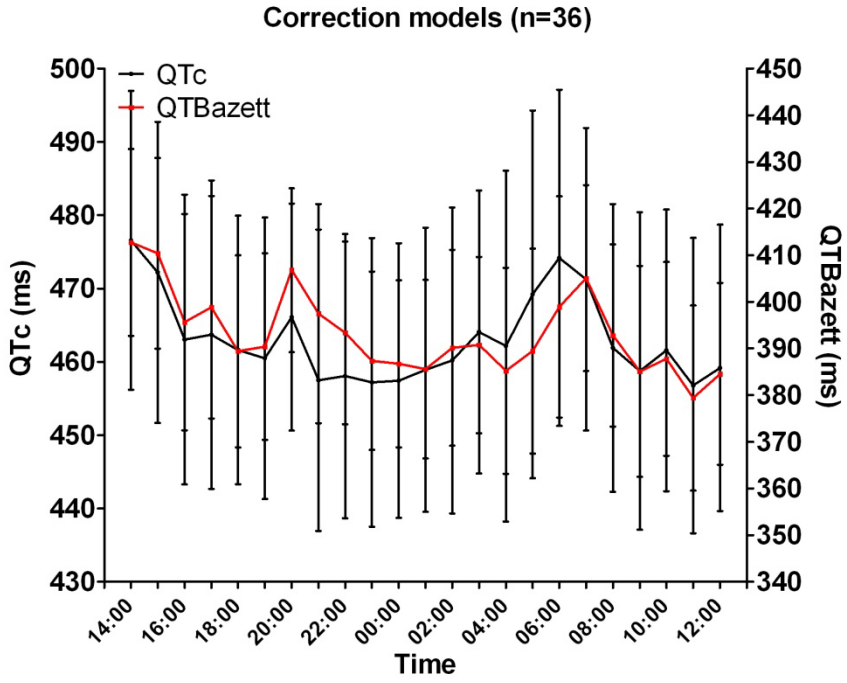

FIGURE 8. Mean and standard deviations of QT corrected for heart rate by equine specific model (linear regression) and Bazett's correction formula.

3.4 T wave morphology

The different types of T waves found during the measuring of the ECG are presented in Fig. 9.

FIGURE 9. Display of different T wave morphologies from ECG, lead II in different horses. Variation in width of the T wave, noise, baseline level after T and the biphasic vs. one phase (positive or negative) are represented.

4. Discussion

In this study, 24 hour ECG recording contained multiple challenges in order to obtain high quality and valid data. Battery change or correction of electrodes was necessary, but disturbed the horses especially at night. This was kept at a minimum, and preferably done outside the 10 minute period around the whole hour. Two horses were taken out of their box stalls on day 7, two hours before the end of the recording. The data was not excluded from the data-set, as the horses were back in their box stalls before the next full hour and they did not leave the stable. Two different stables were used to include 12 horses in the study. Even though the personnel and the routines were the same, a time difference between the feeding, cleaning and routines was present. By pooling all 12 horses, these effects would be more spread over time. There seems to be two general peaks at 20:00 – 22:00 and 06:00 – 08:00. These corresponded with two major feeding times, where the anticipation and restlessness in the stables were obvious. The data included runs from 14:00 to 12:00, since the hours in which only 6 horses were recorded were excluded. Thus, it is not surprising that the level of HR and QT_c do not return to starting level. Furthermore, the two mornings of each day were very different, one being with exercise/paddock and set-up of equipment, the other without any intervention if possible. Leaving the recorder on for 48 hours would give a full 24 hour interval, where the effects of pre-study-period could be diminished. One could allow normal routines (paddock, exercise etc.) while recording. This could provide useful information about the effect of exercise on resting ECG, transition periods and the sympathovagal tone could be estimated.

Inter- and intra-observer agreements were not performed for this study. It has been proven that first-time readers can achieve good alignment with relative short introduction and training.[21] The author was trained and achieved further experience by analysing a pilot study and a drug-induced LQTS study, thus a stable skill level is assumed.

4.1 Reference values

The range of HR in resting horses has been reported between 31-138bpm[3] and 30-55bpm[16]. The HR range (23.9bpm - 49.3bpm) found in this study is representative of a calm horse at rest, without arrhythmias across 24 hour within a stable period of ECG. Reference value in horses for QT intervals is $\leq 0.58s$[2] or given for HR intervals.[1,21] In this study it has been given as a total average over the resting HR range. The average QT interval (517.17ms ± 20.83) found in this study was within the reference values reported. Since the HR dependency determines the QT interval these should be matched with the reference values of HR 30pbm, 40bpm and 50bpm.[21] This has not been performed due to time restrictions.

4.2 Diurnal variation

The HR was expected to rise in the morning due to reactivation of sympathetic tonus and parasympathetic withdrawal.[1] However, there was no significant difference between night and morning. This might be due to the data collection, where only stabile HR periods were chosen. The significantly higher HR found in the evening could be a result of the study set-up, morning exercise and stress from the new conditions. Dawn of light is thought to increase the sympathetic tone thereby shortening QT_c.[33] However, a tendency of increased QT_c in the morning was observed. Sympathetic activity has been associated with shortening of QT_c values compared to night.[32] At significantly higher HR in the evening, this study found QT_c significantly higher than at night. Multiple factors could have affected these results. The $Slope_{QT/RR}$ found in this study varies from that of Pedersen *et al.*, 2013. However, the slope of Pedersen *et al.*, 2013 has been modelled to fit the high HR curve. Furthermore, the sampling of the two studies was under very different circumstances. The difference between $Slope_{QT/RR}$ and the one used for QT correction[21] could create a false correction of QT_c at low HR. This is a potential systematic error relevant for QT_c. Another reason for the unexpected results could be that the horses were interrupted in the night for check–up or stressed by the equipment. Consequently, false low QT_c values could have been achieved. However, it was not reflected in the HR averages. Furthermore, the different sleeping pattern of horses could have resulted in a higher sympathetic tone at night than humans and dogs. This would explain the lack of increase in QT_c at night, but not why QT_c was high in the evening, when stress was supposedly peaking.

Given the narrow HR range, the significantly equal $Slope_{QT/RR}$ of evening, night and morning correspond with previous results reported in humans.[39] Considering the results found in this study, QT_c dependence within the resting (parasympathetic) reference range should be further investigated. A single hour analysis would provide a more accurate view of $Slope_{QT/RR}$ changes over time.

4.3 Variance of QT_c

A modest effect of age on diurnal variation has been showed in humans.[40] The results showed that age did not contribute to the variance of QT_c in adult horses and was left out of the PROC MIXED model. The effect of stable (22.98%) can be difficult to take into account in larger studies. It remains unclear, whether it was the time difference between routines in the two stables or the horses in the stable affecting each other that caused the between stable variation. The difference in QT_c between day 1, 7 and 14 was significantly longer for day 1 ($P = 0.0003$). This suggests that the

assumption of day as a fixed effect was correct. Decrease of QT_c following two day ECG recordings in humans has suggested adaption to protocol.[36] The results suggest an adaption to influence from the ECG equipment, opposite of what is found in humans.

The between horse and day to day (within horse) variation found in this study suggest that the double delta approach is suitable in horses. This approach only relates one horse to its own baseline and placebo against treatment. The difference from baseline should correct if the mean of a horse is elevated or decreased on a following day. Time matched set-up with random treatment and placebo should be made because of the significant fixed effect of time in the model. This could originate from different routines in the stable (feeding, cleaning etc.) and the night/day influence. A separate placebo and treatment group is unsuitable because of the between horse variance (55.21%). Cross-over study design must be considered the first choice for drug-induced LQTS trials. However attempts to take these factors into account in a drug-induced LQTS cross-over study (not published) still showed a very large variation, making the effect of acepromazine non-significant. Possible explanation of these results could lie within the remaining residual (16.43%) found. The residual is considered uncertainty of measure. This could be intra-observer variability, which was not estimated in either of the two studies. However, intra-observer variability has previously been shown to be low.[21] Beside its known HR dependency, some degree of individuality in relation to T wave morphology was observed while measuring QT_{peak}. The T wave was not only shifting between phases, the baseline also seems to be fluctuating and thereby prolonging the down leg of the T wave. Subtle noise could force inaccurate estimation of the point of intersect with baseline. Even without noise, the long and exponential shape of the down leg made it hard to accurately determine the end of the T wave.

The positive control in thorough QT study requires high sensitivity of the study setup. A great natural variance will make the sample size required to find 5ms of increase is very large. This is costly and time consuming. With the large variation found in this study, it is possible that such small difference is impossible to prove in horses, because the natural variation exceeds the difference in QT_c. The threshold of cardiac risk might not be clinically relevant in horses; perhaps the cut-off value is much higher than that of humans. This could be reasonable, considering the I_{Kur} which is suggested to give the equine cardiomyocytes a reserve repolarisation potential.

4.4 Limitations

The average values presented in this study should only be used in direct comparison with healthy resting horses, without restriction to feeding and heavy exercise before the recording. QT_{peak} include measures of a broad variety of T wave morphologies. This should be considered, before direct comparison is made to other reference values. The T_{peak} wave must be measured at the last, positive peak of T before returning to baseline. This also accounts for $T_{peak}T_{end}$. Only geldings are included in the study, although difference between genders has been show to affect QT/RR.[21,39]

5. Conclusion

Average values of HR, QT, QT_c, $QT_{peak\ and}$ $T_{peak}T_{end}$ over 24 hours in healthy resting warmblood sports horses has been presented (Table 1).

HR, QT and QT_c all had large variance of means, equal across 23 hours. HR average was significant higher in the evening (14:00-21:00) compared to night (22:00-05:00) and evening to morning (06:00-12:00). QT_c average was significantly higher in the evening compared to night ($P < 0.0483$). Simultaneously high HR and high QT_c in the evening, where the stress is assumed to be most pronounced was unexpected. These results are different from what has been reported in humans. Sleeping pattern or cardiac sympathovagal dependence in horses might explain the results. No significant difference was found between $Slope_{QT/RR}$ time periods. The difference between $Slope_{QT/RR}$ found in this study and the one used for the correction model could have introduced a systematic bias, influencing QT_c. The QT_c dependence of sympathovagal tone in the equine heart must be further investigated to establish its origin and implication.

Sources of QT_c variance are 55.21% between horses, 22.98% between stables, 5.37% day-to-day (within horse) and 16.43% residuals. Time and day had significantly systematic fixed effect. The difference in QT_c between day 1, 7 and 14 was significantly longer for day 1 ($P = 0.0003$), and adaption to the study design is suggested. Sources of QT_c variance must be taken into account in thorough QT studies. Cross-over study design is recommended for this purpose, using double delta values to evaluate drug-induced LQTS. Limits of detection for significant effect in horses should be further investigated together with estimating a clinically relevant cut-off value. The residual should be minimized by investigating its originality and possible prevention i.e. implication of the T wave morphology and baseline.

6. Conflict of interest

None.

7. Acknowledgment

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8. References

1. Finley MR, Lillich JD, Gilmour RF, Jr., Freeman LC. Structural and functional basis for the long QT syndrome: relevance to veterinary patients. Journal of veterinary internal medicine / American College of Veterinary Internal Medicine 2003;17:473-488.
2. Verheyen T, Decloedt A, De Clercq D, Deprez P, Sys S, van Loon G. Electrocardiography in horses – part 1: how to make a good recording. Vlaams Diergeneeskundig Tijdschrift 2010;79:311-336.
3. Scheffer CW, Robben JH, Sloet van Oldruitenborgh-Oosterbaan MM. Continuous monitoring of ECG in horses at rest and during exercise. The Veterinary record 1995;137:371-374.
4. Fregin GF. The equine electrocardiogram with standardized body and limb positions. The Cornell veterinarian 1982;72:304-324.
5. International Conference on Harmonisation; guidance on E14 Clinical Evaluation of QT/QTc Interval Prolongation and Proarrhythmic Potential for Non-Antiarrhythmic Drugs; availability. Notice. Federal register 2005;70:61134-61135.
6. Okutucu S, Karakulak UN, Sahiner L, Aytemir K, Demiri E, Evranos B, Fatihoglu SG, Kaya EB, Kabakci G, Tokgozoglu L, Ozkutlu H, Oto A. The relationship between circadian blood pressure pattern and ventricular repolarization dynamics assessed by QT dynamicity. Blood pressure monitoring 2012;17:14-19.
7. Davey P. How to correct the QT interval for the effects of heart rate in clinical studies. Journal of pharmacological and toxicological methods 2002;48:3-9.
8. Finley MR, Li Y, Hua F, Lillich J, Mitchell KE, Ganta S, Gilmour RF, Jr., Freeman LC. Expression and coassociation of ERG1, KCNQ1, and KCNE1 potassium channel proteins in horse heart. American journal of physiology Heart and circulatory physiology 2002;283:H126-138.
9. Witchel HJ, Milnes JT, Mitcheson JS, Hancox JC. Troubleshooting problems with in vitro screening of drugs for QT interval prolongation using HERG K+ channels expressed in mammalian cell lines and Xenopus oocytes. Journal of pharmacological and toxicological methods 2002;48:65-80.
10. Higham PD, Campbell RW. QT dispersion. British heart journal 1994;71:508-510.
11. Wysowski DK, Corken A, Gallo-Torres H, Talarico L, Rodriguez EM. Postmarketing reports of QT prolongation and ventricular arrhythmia in association with cisapride and Food and Drug Administration regulatory actions. The American journal of gastroenterology 2001;96:1698-1703.
12. Tseng GN. I(Kr): the hERG channel. Journal of molecular and cellular cardiology 2001;33:835-849.

13. Nerbonne JM, Kass RS. Molecular physiology of cardiac repolarization. Physiological reviews 2005;85:1205-1253.
14. Reef VB, Reimer JM, Spencer PA. Treatment of atrial fibrillation in horses: new perspectives. Journal of veterinary internal medicine / American College of Veterinary Internal Medicine 1995;9:57-67.
15. King JN, Gerring EL. Actions of the novel gastrointestinal prokinetic agent cisapride on equine bowel motility. Journal of veterinary pharmacology and therapeutics 1988;11:314-321.
16. Buhl R, Meldgaard C, Barbesgaard L. Cardiac arrhythmias in clinically healthy showjumping horses. Equine veterinary journal Supplement 2010:196-201.
17. Barbesgaard L, Buhl R, Meldgaard C. Prevalence of exercise-associated arrhythmias in normal performing dressage horses. Equine veterinary journal Supplement 2010:202-207.
18. Gelberg HB, Zachary JF, Everitt JI, Jensen RC, Smetzer DL. Sudden death in training and racing Thoroughbred horses. Journal of the American Veterinary Medical Association 1985;187:1354-1356.
19. Lyle CH, Uzal FA, McGorum BC, Aida H, Blissitt KJ, Case JT, Charles JT, Gardner I, Horadagoda N, Kusano K, Lam K, Pack JD, Parkin TD, Slocombe RF, Stewart BD, Boden LA. Sudden death in racing Thoroughbred horses: an international multicentre study of post mortem findings. Equine veterinary journal 2011;43:324-331.
20. Simonson E, Cady LD, Jr., Woodbury M. The normal Q-T interval. American heart journal 1962;63:747-753.
21. Pedersen PJ, Kanters JK, Buhl R, Klaerke DA. Normal electrocardiographic QT interval in race-fit Standardbred horses at rest and its rate dependence during exercise. Journal of veterinary cardiology : the official journal of the European Society of Veterinary Cardiology 2013.
22. Fossa AA, Zhou M. Assessing QT prolongation and electrocardiography restitution using a beat-to-beat method. Cardiology journal 2010;17:230-243.
23. Arildsen H, Christiansen EH, Pedersen AK, Molgaard H. Reproducibility of QT parameters derived from 24-hour ambulatory ECG recordings in healthy subjects. Annals of noninvasive electrocardiology : the official journal of the International Society for Holter and Noninvasive Electrocardiology, Inc 2001;6:24-31.
24. Chain AS, Krudys KM, Danhof M, Della Pasqua O. Assessing the probability of drug-induced QTc-interval prolongation during clinical drug development. Clinical pharmacology and therapeutics 2011;90:867-875.
25. Rajendra Acharya U, Paul Joseph K, Kannathal N, Lim CM, Suri JS. Heart rate variability: a review. Medical & biological engineering & computing 2006;44:1031-1051.

26. Hada T, Ohmura H, Mukai K, Eto D, Takahashi T, Hiraga A. Utilisation of the time constant calculated from heart rate recovery after exercise for evaluation of autonomic activity in horses. Equine veterinary journal Supplement 2006:141-145.
27. Paslawska U, Zysko D, Noszczyk-Nowak A, Paslawski R. Short-term and long-term PQ, QT and R-R intervals' variability at the resting condition and after exercise testing in healthy Anglo-Arabian horses. Polish journal of veterinary sciences 2012;15:55-59.
28. Schwarzwald CC, Kedo M, Birkmann K, Hamlin RL. Relationship of heart rate and electrocardiographic time intervals to body mass in horses and ponies. Journal of veterinary cardiology : the official journal of the European Society of Veterinary Cardiology 2012;14:343-350.
29. Chaudry, II, Qamar S, Spodick DH. QT interval effects of normal QRS variation. The American journal of cardiology 1994;74:628-629.
30. Spodick DH. Reduction of QT-interval imprecision and variance by measuring the JT interval. The American journal of cardiology 1992;70:103.
31. Berger RD. QT variability. Journal of electrocardiology 2003;36 Suppl:83-87.
32. Murakawa Y, Inoue H, Nozaki A, Sugimoto T. Role of sympathovagal interaction in diurnal variation of QT interval. The American journal of cardiology 1992;69:339-343.
33. Bexton RS, Vallin HO, Camm AJ. Diurnal variation of the QT interval--influence of the autonomic nervous system. British heart journal 1986;55:253-258.
34. Browne KF, Prystowsky E, Heger JJ, Zipes DP. Modulation of the Q-T interval by the autonomic nervous system. Pacing and clinical electrophysiology : PACE 1983;6:1050-1056.
35. Nolan ER, Girand M, Bailie M, Yeragani VK. Circadian changes in the QT variability index in the beagle dog. Clinical and experimental pharmacology & physiology 2004;31:783-785.
36. Beasley CM, Jr., Benson C, Xia JQ, Young SS, Haber H, Mitchell MI, Loghin C. Systematic decrements in QTc between the first and second day of contiguous daily ECG recordings under controlled conditions. Pacing and clinical electrophysiology : PACE 2011;34:1116-1127.
37. Carroll CL, Huntington PJ. Body condition scoring and weight estimation of horses. Equine veterinary journal 1988;20:41-45.
38. Goldenberg I, Moss AJ, Zareba W. QT interval: how to measure it and what is "normal". Journal of cardiovascular electrophysiology 2006;17:333-336.
39. Jensen BT, Larroude CE, Rasmussen LP, Holstein-Rathlou NH, Hojgaard MV, Agner E, Kanters JK. Beat-to-beat QT dynamics in healthy subjects. Annals of noninvasive electrocardiology : the official journal of the International Society for Holter and Noninvasive Electrocardiology, Inc 2004;9:3-11.
40. Yeragani VK, Berger R, Pohl R, Balon R. Effect of age on diurnal changes of 24-hour QT interval variability. Pediatric cardiology 2005;26:39-44.

9. Further considerations

9.1 Pilot study

Four hospital teaching horses were signed up for two 24 hours Holter ECG, 7 days apart. By the end of the study three horses had double data-sets available for analysis. Evaluation to determine critical points regarding quality, loss of data and practical issues was made. Major issues were the reliability of the Holter monitor and the battery, keeping the ECG electrodes on the pads (especially during night time), a stable environment and registering all interventions and procedures in the stable (feeding, paddock, cleaning etc.). The ECG recordings were used as training of measuring with on-screen callipers, to reach a reasonable level of experience by the author. This also gave the opportunity to optimize the procedures of measuring considerably.

9.2 Drug-induced LQTS

As part of the Equine Cardiac Group's work, moxifloxacine was tested in three healthy horses. This was to test if the study design could prove a 5 ms prolongation of QT_c and show drug-induced LQTS in horses.[1] Data is unpublished as the findings were not significant (P = 0.05), but did show a tendency of prolongation after administration 5.8mg/kg BWT moxifloxacine, P.O. (Charlotte Andersson, Master's Thesis, 2013). Moxifloxacine had not shown a significant inhibition of KCNH2. The data of QT_c showed a large variation, which seemed to be the main reason for the insignificant result. Acepromazine was chosen for a new drug-induced LQTS study. This was based on the inhibition of KCNH2 channel (ventricular repolarisation, K^+) in a two-electrode-voltage-clamp study (Emma Olander, Master's Thesis, 2012). Therefore, acepromazine could potentially induce a more pronounced prolongation of QT detectable by the study design. A cross-over, randomized study was performed in four horses with IV injection of 0.1mg/kg BWT acepromazine maleate. The same protocol was followed as the moxifloxacine study. Blood samples were drawn from a venous catheter at 0, 5, 10, 15, 20, 25, 30, 45, 60, 120, 180 and 240 minutes. These have not yet been analysed. The results of $\Delta\Delta QT_c$ showed a great variation and no significant increase was found, since all time points included 10ms in the upper 95% CI. Once again, there is a tendency of prolongation at maximal sedative effect, see Fig. 10.[2]

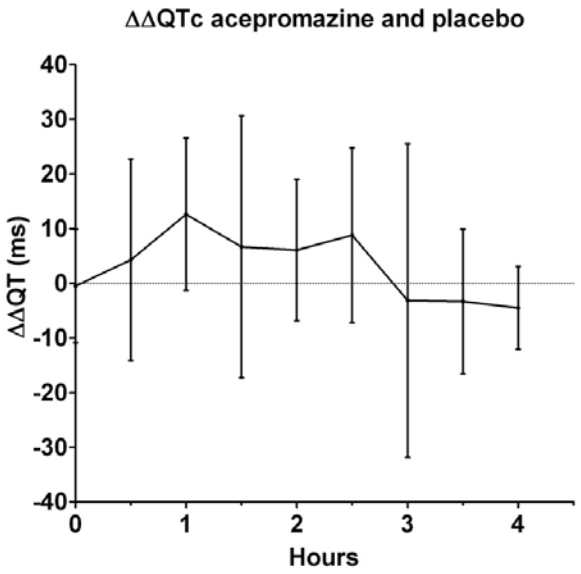
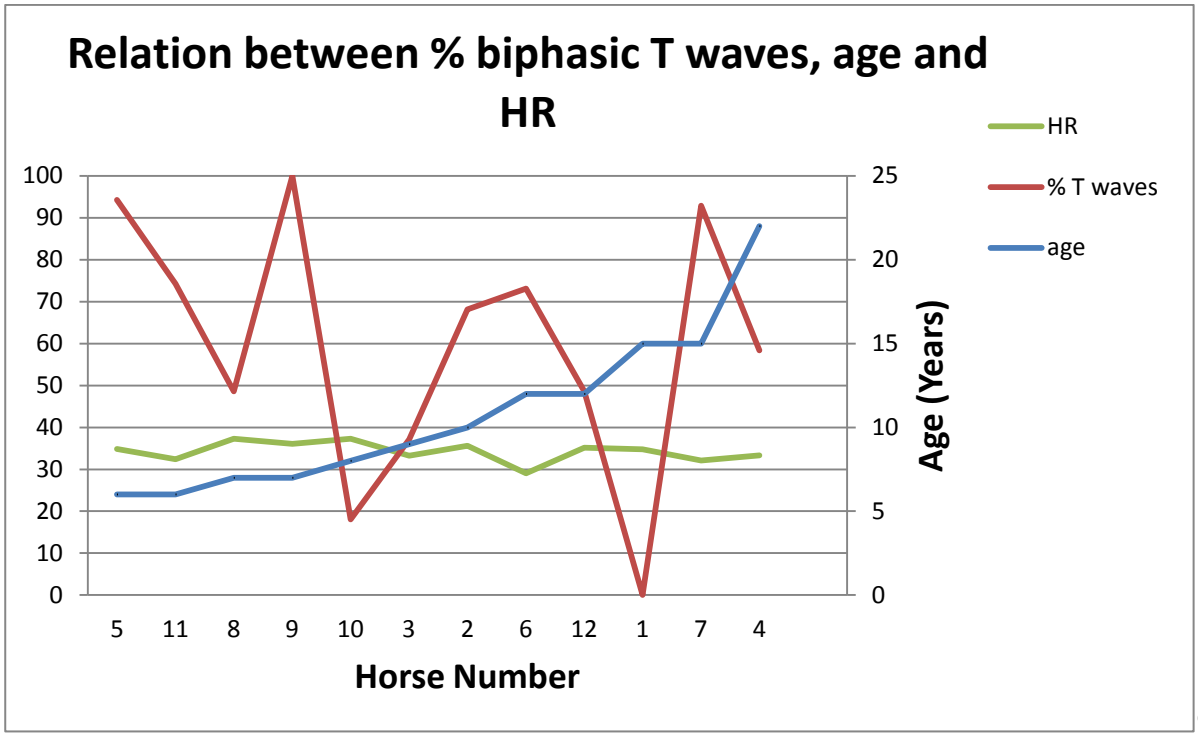


FIGURE 10. $\Delta\Delta QT_c$ for drug-induced LQTS. Error bars: SD.

The drug-induced LQTS studies generated the first ideas for which sources of variation that might contribute to the large deviation of data. The results of the article showed that many of the factors were already accounted for in the study design. Improvement could still be made, especially regarding daily routines. However, many questions remain i.e. why the variation of QT_c is so large and what implications large variability between horses has for equine cardiology.

9.3 Morphology of the T wave

The T waves' individual behaviour is obvious, when ECG is analysed. Fig. A shows a quick overview of number of biphasic T waves related to age of the horse and average HR . There is no apparent connection between the parameters. It seems one horse has approximately the same level of biphasic waves from day to day, supporting the theory that it is of individual nature (Table A). Whether the T wave morphology or one horse's individual appearance has any association to risk of sudden death is not yet described.



9.4

FIGURE A. Average HR for each horse and % biphasic T waves of total number within each horse, plotted against increasing age of horses.

Table A. Number of biphasic T waves for individual horses. Average %T wave biphasic and HR across 3 days averages for 24 hours.

Horse (Number)	Age (Years)	Day 1	Day 2	Day 3	Total number of T waves	% biphasic T waves	HR (average)
5	6	20	23	23	70	94	34.82
11	6	19	15	18	70	74	32.44
8	7	9	10	16	72	49	37.33
9	7	24	24	24	72	100	36.07
10	8	1	5	7	72	18	37.26
3	9	11	10	5	70	37	33.28
2	10	17	16	14	69	68	35.64
6	12	15	22	12	67	73	29.01
12	12	12	7	16	72	49	35.14
1	15	0	0	0	72	0	34.75
7	15	20	22	23	70	93	32.11
4	22	12	12	18	72	58	33.29

9.4 Conclusion

The sympathovagal influence on the heart is a truly complex system.[3-8] Great individuality of QT_c was shown in this study. Given the large variation between horses, two questions become essential to the further work with equine ECG. Are horses sensitive to QT prolongation in the same way

humans are? Do we have to look for other reasons to explain the cases of sudden death? The I_{kur} has been suggested to give the ventricles an additional repolarisation potential.[9] Compared to humans this makes horses theoretical less vulnerable to LQTS. It has still not been possible to show that horses are susceptible to drug-induced LQTS. Moreover, the results of the article were puzzling, as QT_c did not follow to HR and stress as expected. It might be that the HR range was too narrow or the correction method had truly biased the results. However, it is possible that a different perhaps more sensitive HR/stress dependency of QT_c in the equine heart exists.

10. References

1. International Conference on Harmonisation; guidance on E14 Clinical Evaluation of QT/QTc Interval Prolongation and Proarrhythmic Potential for Non-Antiarrhythmic Drugs; availability. Notice. Federal register 2005;70:61134-61135.
2. Kalhoro A. Sedative Effects of Acepromazine and Xylazine in Horses: A Comparative Study. PJBS 2006;9:72-75.
3. Nolan ER, Girand M, Bailie M, Yeragani VK. Circadian changes in the QT variability index in the beagle dog. Clinical and experimental pharmacology & physiology 2004;31:783-785.
4. Yeragani VK, Berger R, Pohl R, Balon R. Effect of age on diurnal changes of 24-hour QT interval variability. Pediatric cardiology 2005;26:39-44.
5. Paslawska U, Zysko D, Noszczyk-Nowak A, Paslawski R. Short-term and long-term PQ, QT and R-R intervals' variability at the resting condition and after exercise testing in healthy Anglo-Arabian horses. Polish journal of veterinary sciences 2012;15:55-59.
6. Murakawa Y, Inoue H, Nozaki A, Sugimoto T. Role of sympathovagal interaction in diurnal variation of QT interval. The American journal of cardiology 1992;69:339-343.
7. Hada T, Ohmura H, Mukai K, Eto D, Takahashi T, Hiraga A. Utilisation of the time constant calculated from heart rate recovery after exercise for evaluation of autonomic activity in horses. Equine veterinary journal Supplement 2006:141-145.
8. Bexton RS, Vallin HO, Camm AJ. Diurnal variation of the QT interval--influence of the autonomic nervous system. British heart journal 1986;55:253-258.
9. Finley MR, Lillich JD, Gilmour RF, Jr., Freeman LC. Structural and functional basis for the long QT syndrome: relevance to veterinary patients. Journal of veterinary internal medicine / American College of Veterinary Internal Medicine 2003;17:473-488.

Appendix I

SAS code

All possible parameters were first included in the model, including repeated measures and intercept. The goal was to achieve to simplest model, containing all relevant data available with the lowest possible AIC score.

Time was expressed as 0 – 24, to accommodate the way data was obtained (13:00 was present two times at each end of the data set). Non significant parameters were excluded one at a time, as their p-values were below 0.05. This was true for fixed effect: age and timex*day. Covariance parameters = 0 were also excluded true for Stable*day, since AIC was the same with and without the parameter. Horsenumb and stable were included as "random" since it was not know beforehand.

A residual "noint;" was inserted instead of: "residual solution cl outpm=estimates". This is due to the expectation that individual horses are parallel to each other and do not share a common point. The assumption did not increase AIC, and was thus accepted.

Finally, "Parms" was added which decreased AIC. "Parms" assumes a serial correlation, and describes the effect one parameter has on the next within a series. Time was included as a repeated measure, since this describes the way data was obtained well. This was also implemented into the final model:

```
title 'with repeat timex parms 1';
ods html;
ods graphics on;
proc mixed data=sasuser.sasdatasine;
class Horseno day timex;
model AvgQTcms= tidx day/ddfm=satterth alpha=0.05 residual noint
outpm=estimates;
random Horseno stable;
repeated / type=sp(gau)(timex) subject=Horseno*day local;Parms 300 100 20 1 100;
run;
ods html close;
```

Appendix II

An example of the original spreadsheet is given here.

See attached Excel file for full data set.

Horse	Age	Day	Gender, 2=gelding	Hour	ECG time	HR	RR	RR (ms)	QT peak 1	Qtpeak 2	QT	Qtsek	Avg QT	Avg QT (ms)	Standard horse RR >0,8021	QTc	Avg QTc	Avg QTc (ms)	Avg Qtpeak	Tptend	Tptend avg
9																					
Remus	22	1	2	13:00	13:00:11	34,20	1,75														
Remus	22	1	2	13:00	13:00:29	34,20	1,75	1754,39	384	435	505	0,505	0,4968	496,8	0,49776	0,450231	0,442031	442,0315	0,4316	0,07	0,0652
Remus	22	1	2	13:00	13:00:31	34,20	1,75		383	431	498	0,498			0,49776	0,443231				0,067	
Remus	22	1	2	13:00	13:00:33	34,20	1,75		376	428	485	0,485			0,49776	0,430231				0,057	
Remus	22	1	2	13:00	13:00:35	34,20	1,75		384	428	503	0,503			0,49776	0,448231				0,075	
Remus	22	1	2	13:00	13:00:37	34,20	1,75		389	436	493	0,493			0,49776	0,438231				0,057	
Remus	22	1	2	14:00	14:02:05	42,90	1,40														
Remus	22	1	2	14:00	14:02:20	42,90	1,40	1398,60	372	428	493	0,493	0,5026	502,6	0,47193	0,464061	0,473661	473,6614	0,4306	0,065	0,072
Remus	22	1	2	14:00	14:02:22	42,90	1,40		379	428	500	0,5			0,47193	0,471061				0,072	
Remus	22	1	2	14:00	14:02:24	42,90	1,40		379	431	503	0,503			0,47193	0,474061				0,072	
Remus	22	1	2	14:00	14:02:25	42,90	1,40		381	433	505	0,505			0,47193	0,476061				0,072	
Remus	22	1	2	14:00	14:02:26	42,90	1,40		38	433	512	0,512			0,47193	0,483061				0,079	
Remus	22	1	2	15:00	15:02:10	39,60	1,52														
Remus	22	1	2	15:00	15:02:26	39,60	1,52	1515,15	379	428	492	0,492	0,493	493	0,480391	0,4546	0,4556	455,5999	0,428	0,064	0,065
Remus	22	1	2	15:00	15:02:27	39,60	1,52		378	424	490	0,49			0,480391	0,4526				0,066	
Remus	22	1	2	15:00	15:02:29	39,60	1,52		378	430	493	0,493			0,480391	0,4556				0,063	
Remus	22	1	2	15:00	15:02:30	39,60	1,52		376	430	492	0,492			0,480391	0,4546				0,062	
Remus	22	1	2	15:00	15:02:32	39,60	1,52		381	428	498	0,498			0,480391	0,4606				0,07	

Horse	No	Stable	Age	Day	Gender	QTgain	QTfeed	HRfeed	Time	timex	tidxcopy	No	EKGtime	HR	RR	RRms	QTpeak1	Qtpeak2	QT	Qts	AvgQT	AvgQTms	StandardhorseRR>0,8021	QTc	AvgQTc	AvgQTcms	AvgQtpeak	AvgQtpeakms	Tptend	Tptendavg	TpTendavg(ms)	Bazett
Daggert	1	2	15	1	2	40	200	10	14:00	1	1	1	14:00:19	39,20	1,53	1530,61		446	527	0,527	0,5208	520,8	0,481513869	0,488477431	0,482277431	482,277431	0,445	445	0,081	0,0758	75,8	0,083181729
Daggert	1	2	15	1	2	40	200	10	15:00	2	2	1	14:57:57	40,80	1,47	1470,59		428	508	0,508	0,5082	508,2	0,477156126	0,473835174	0,474035174	474,0351741	0,4272	427,2	0,08	0,081	81	0,079561796
Daggert	1	2	15	1	2	40	200	10	16:00	3	3	1	15:59:09	38,90	1,54	1542,42		426	512	0,512	0,5128	512,8	0,482370854	0,472620446	0,473420446	473,4204456	0,426	426	0,086	0,0868	86,8	0,082219194
Daggert	1	2	15	1	2	40	200	10	17:00	4	4	1	17:00:51	37,90	1,58	1583,11		428	520	0,52	0,5176	517,6	0,485325457	0,477665843	0,475265843	475,2658431	0,4304	430,4	0,092	0,0872	87,2	0,084076507
Daggert	1	2	15	1	2	40	200	10	18:00	5	5	1	17:59:23	38,00	1,58	1578,95		438	515	0,515	0,5236	523,6	0,485022999	0,472968301	0,481568301	481,5683011	0,4336	433,6	0,077	0,09	90	0,084939136
Daggert	1	2	15	1	2	40	200	10	19:00	6	6	1	18:59:29	37,30	1,61	1608,58		458	529	0,529	0,5182	518,2	0,487174262	0,484817038	0,474017038	474,0170382	0,4556	455,6	0,071	0,0626	62,6	0,08484827
Daggert	1	2	15	1	2	40	200	10	20:00	7	7	1	20:00:43	38,20	1,57	1570,68		424	513	0,513	0,5096	509,6	0,484422834	0,471568466	0,468168466	468,1684664	0,4266	426,6	0,089	0,083	83	0,082451344
Daggert	1	2	15	1	2	40	200	10	21:00	8	8	1	20:59:44	41,80	1,44	1435,41		414	502	0,502	0,505	505	0,474601946	0,470389354	0,473389354	473,3893537	0,4154	415,4	0,088	0,0896	89,6	0,078109388
Daggert	1	2	15	1	2	40	200	10	22:00	9	9	1	22:01:04	38,60	1,55	1554,40		409	471	0,471	0,4832	483,2	0,483241161	0,430750139	0,442950139	442,9501391	0,4126	412,6	0,062	0,0706	70,6	0,077773792
Daggert	1	2	15	1	2	40	200	10	23:00	10	10	1	22:59:53	32,70	1,83	1834,86		441	522	0,522	0,5134	513,4	0,503602429	0,461388871	0,452788871	452,7888708	0,4416	441,6	0,081	0,0718	71,8	0,089780493
Daggert	1	2	15	1	2	40	200	10	00:00	11	11	1	23:56:48	35,30	1,70	1699,72		433	503	0,503	0,4998	499,8	0,493790853	0,452200447	0,449000447	449,0004466	0,4332	433,2	0,07	0,0666	66,6	0,084121866
Daggert	1	2	15	1	2	40	200	10	01:00	12	12	1	01:00:01	31,60	1,90	1898,73		448	520	0,52	0,5222	522,2	0,508239521	0,454751779	0,456951779	456,9517787	0,4492	449,2	0,072	0,073	73	0,092895211
Daggert	1	2	15	1	2	40	200	10	02:00	13	13	1	02:00:28	37,70	1,59	1591,51		436	518	0,518	0,5248	524,8	0,485935187	0,475056113	0,481856113	481,8561134	0,4386	438,6	0,082	0,0862	86,2	0,085471859
Daggert	1	2	15	1	2	40	200	10	03:00	14	14	1	02:57:03	31,90	1,88	1880,88		448	508	0,508	0,522	522	0,506943144	0,444048156	0,458048156	458,0481559	0,4486	448,6	0,06	0,0734	73,4	0,092421957
Daggert	1	2	15	1	2	40	200	10	04:00	15	15	1	04:00:44	32,60	1,84	1840,49		460	512	0,512	0,5188	518,8	0,504011052	0,450980248	0,457780248	457,7802481	0,4614	461,4	0,052	0,0574	57,4	0,090863857
Daggert	1	2	15	1	2	40	200	10	05:00	16	16	1	05:01:02	30,50	1,97	1967,21		470	532	0,532	0,5336	533,6	0,513211092	0,461780208	0,463380208	463,3802079	0,4684	468,4	0,062	0,0652	65,2	0,096619748
Daggert	1	2	15	1	2	40	200	10	06:00	17	17	1	06:03:00	31,50	1,90	1904,76		482	554	0,554	0,5532	553,2	0,508677134	0,488314166	0,487514166	487,5141657	0,483	483	0,072	0,0702	70,2	0,098565946
Daggert	1	2	15	1	2	40	200	10	07:00	18	18	1	07:01:00	38,60	1,55	1554,40		445	517	0,517	0,5138	513,8	0,483241161	0,476750139	0,473550139	473,5501391	0,4436	443,6	0,072	0,0702	70,2	0,082699036
Daggert	1	2	15	1	2	40	200	10	08:00	19	19	1	08:00:12	38,80	1,55	1546,39		421	495	0,495	0,5012	501,2	0,482659461	0,455331839	0,461531839	461,5318388	0,4216	421,6	0,074	0,0796	79,6	0,080462811
Daggert	1	2	15	1	2	40	200	10	09:00	20	20	1	09:01:33	35,00	1,71	1714,29		436	510	0,51	0,5052	505,2	0,494848563	0,458142737	0,453342737	453,3427371	0,4334	433,4	0,074	0,0718	71,8	0,085394386
Daggert	1	2	15	1	2	40	200	10	10:00	21	21	1	10:00:13	31,90	1,88	1880,88		451	535	0,535	0,5356	535,6	0,506943144	0,471048156	0,471648156	471,6481559	0,4526	452,6	0,084	0,083	83	0,094829886
Daggert	1	2	15	1	2	40	200	10	11:00	22	22	1	10:59:58	32,80	1,83	1829,27		466	518	0,518	0,5294	529,4	0,503196298	0,457795002	0,469195002	469,195002	0,465	465	0,052	0,0644	64,4	0,09243725
Daggert	1	2	15	1	2	40	200	10	12:00	23	23	1	12:01:33	38,00	1,58	1578,95		445	510	0,51	0,5124	512,4	0,485022999	0,467968301	0,470368301	470,3683011	0,442	442	0,065	0,0704	70,4	0,083122256
Daggert	1	2	15	1	2	40	200	10	13:00	24	24	1	13:01:39	34,10	1,76	1759,53		465	544	0,544	0,539	539	0,498133355	0,488857945	0,483857945	483,8579445	0,4624	462,4	0,079	0,0766	76,6	0,092302099
Daggert	1	2	15	2	2	40	200	10	14:00	1	1	1	14:01:13	41,40	1,45	1449,28		438	507	0,507	0,5158	515,8	0,475608811	0,474382489	0,483182489	483,1824887	0,4376	437,6	0,069	0,0782	78,2	0,08016433
Daggert	1	2	15	2	2	40	200	10	15:00	2	2	1	15:00:03	34,50	1,74	1739,13		461	530	0,53	0,5356	535,6	0,49665229	0,47633901	0,48193901	481,9390104	0,4566	456,6	0,069	0,079	79	0,0911866
Daggert	1	2	15	2	2	40	200	10	16:00	3	3	1	16:00:57	34,20	1,75	1754,39		456	539	0,539	0,5354	535,4	0,497759841	0,484231459	0,480631459	480,6314589	0,456	456	0,083	0,0794	79,4	0,091551468
Daggert	1	2	15	2	2	40	200	10	17:00	4	4	1	17:01:37	38,30	1,57	1566,58		445	523	0,523	0,5236	523,6	0,484125101	0,481866199	0,482466199	482,4661985	0,4486	448,6	0,078	0,075	75	0,084605822
Daggert	1	2	15	2	2	40	200	10	18:00	5	5	1	17:59:34	34,60	1,73	1734,10		456	540	0,54	0,5324	532,4	0,496287374	0,486703926	0,479103926	479,1039262	0,4586	458,6	0,084	0,0738	73,8	0,090510715
Daggert	1	2	15	2	2	40	200	10	19:00	6	6	1	18:58:19	35,50	1,69	1690,14		460	520	0,52	0,526	526	0,493095645	0,469895655	0,475895655	475,8956546	0,4614	461,4	0,06	0,0646	64,6	0,088281879
Daggert	1	2	15	2	2	40	200	10	20:00	7	7	1	19:59:08	40,80	1,47	1470,59		443	527	0,527	0,5222	522,2	0,477156126	0,492835174	0,488035174	488,0351741	0,4428	442,8	0,084	0,0794	79,4	0,081753581
Daggert	1	2	15	2	2	40	200	10	21:00	8	8	1	21:00:55	32,50	1,85	1846,15		461	537	0,537	0,5292	529,2	0,504422189	0,475569111	0,467769111	467,7691108	0,4594	459,4	0,076	0,0698	69,8	0,092827821
Daggert	1	2	15	2	2	40	200	10	22:00	9	9	1	21:59:59	36,80	1,63	1630,43		443	523	0,523	0,5316	531,6	0,488760985	0,477230315	0,485830315	485,8303148	0,4506	450,6	0,08	0,081	81	0,087631665
Daggert	1	2	15	2	2	40	200	10	23:00	10	10	1	22:58:51	34,70	1,73	1729,11		468	535	0,535	0,5382	538,2	0,495924561	0,482066739	0,485266739	485,2667388	0,467	467	0,067	0,0712	71,2	0,09136481
Daggert	1	2	15	2	2	40	200	10	00:00	11	11	1	00:03:03	33,90	1,77	1769,91		448	523	0,523	0,5226	522,6	0,498886995	0,467104305	0,466704305	466,7043048	0,4472	447,2	0,075	0,0754	75,4	0,089757254
Daggert	1	2	15	2	2	40	200	10	01:00	12	12	1	01:00:31	33,30	1,80	1801,80		451	522	0,522	0,5232	523,2	0,501202231	0,463789069	0,464989069	464,9890692	0,4516	451,6	0,071	0,0716	71,6	0,090666243
Daggert	1	2	15	2	2	40	200	10	02:00	13	13	1	02:00:25	34,40	1,74	1744,19		460	542	0,542	0,5356	535,6	0,497019327	0,487971973	0,481571973	481,571973	0,4564	456,4	0,082	0,0792	79,2	0,091319042
Daggert	1	2	15	2	2	40	200	10	03:00	14	14	1	03:02:15	32,90	1,82	1823,71		465	537	0,537	0,5454	545,4	0,502792636	0,477198664	0,485598664	485,5986642	0,4722	472,2	0,072	0,0732	73,2	0,095086133
Daggert	1	2	15	2	2	40	200	10	04:00	15	15	1	04:01:05	35,20	1,70	1704,55		466	520	0,52	0,5292	529,2	0,49414142	0,46884988	0,47804988	478,04988	0,4654	465,4	0,054	0,0638	63,8	0,089196642
Daggert	1	2	15	2	2	40	200	10	05:00	16	16	1	05:00:44	32,30	1,86	1857,59		488	564	0,564	0,5668	566,8	0,505252101	0,501739199	0,504539199	504,5391989	0,489	489	0,076	0,0778	77,8	0,099730634
Daggert	1	2	15	2	2	40	200	10	06:00	17	17	1	05:57:26	30,70	1,95	1954,40		497	560	0,56	0,5614	561,4	0,512280671	0,490710629	0,492110629	492,1106292	0,4952	495,2	0,063	0,0662	66,2	0,101321876
Daggert	1	2	15	2	2	40	200	10	07:00	18	18	1	07:00:10	38,50	1,56	1558,44		426	502	0,502	0,5098	509,8	0,483534277	0,461457023	0,469257023	469,2570229	0,43	430	0,076	0,0798	79,8	0,082161709
Daggert	1	2	15	2	2	40	200	10	08:00	19	19	1	07:59:54	34,20	1,75	1754,39		436	523	0,523	0,5208	520,8	0,497759841	0,468231459	0,466031459	466,0314589	0,4388	438,8	0,087	0,082	82	0,089054921
Daggert	1	2	15	2	2	40	200	10	09:00	20	20	1	09:01:57	31,10	1,93	1929,26		451	535	0,535	0,5354	535,4	0,510455729	0,467535571	0,467935571	467,9355713	0,4508	450,8	0,084	0,0846	84,6	0,096005955
Daggert	1	2	15	2	2	40	200	10	10:00	21	21	1	10:00:20	35,50	1,69	1690,14		448	537	0,537	0,5316	531,6	0,493095645	0,486895655	0,481495655	481,4956546	0,4436	443,6	0,089	0,088	88	0,089221762
Daggert	1	2	15	2	2	40	200	10	11:00	22	22	1	11:00:03	31,30	1,92	1916,93		461	518	0,518	0,527	527	0,509560749	0,451430551	0,460430551	460,4305509	0,4622	462,2	0,057	0,0648	64,8	0,094197298
Daggert	1	2	15	2	2	40	200	10	12:00	23	23	1	11:57:19	30,30	1,98	1980,20		458	527	0,527	0,5234	523,4	0,514153796	0,455837504	0,452237504	452,2375038	0,4564	456,4	0,069	0,067	67	0,095085086
Daggert	1	2	15	2	2	40	200	10	13:00	24	24	1	13:02:04	33,80	1,78	1775,15		440	500	0,5	0,5054	505,4	0,49926716	0,44372414	0,44912414	449,1241404	0,439	439	0,06	0,0664	66,4	0,086931443
Daggert	1	2	15	3	2	40	200	10	14:00	1	1	1	14:02:49	34,60	1,73	1734,10		458	535	0,535	0,5344	534,4	0,496287374	0,481703926	0,481103926	481,1039262	0,4588	458,8	0,077	0,0756	75,6	0,090850726
Daggert	1	2	15	3	2	40	200	10	15:00	2	2	1	14:59:38	40,90	1,47	1466,99		430	513	0,513	0,5118	511,8	0,476895087	0,479096213	0,477896213	477,8962125	0,4304	430,4	0,083	0,0814	81,4	0,080027385
Daggert	1	2	15	3	2	40	200	10	16:00	3	3	1	15:59:22	31,10	1,93	1929,26		453	535	0,535	0,531	531	0,510455729	0,467535571	0,463535571	463,5355713	0,4544	454,4	0,082	0,0766	76,6	0,095216963
Daggert	1	2	15	3	2	40	200	10	17:00	4	4	1	17:00:57	30,90	1,94	1941,75		458	522	0,522	0,5244	524,4	0,511362294	0,453629006	0,456029006	456,0290062	0,457	457	0,064	0,0674	67,4	0,0943373
Daggert	1	2	15	3	2	40	200	10	18:00	5	5	1	18:00:59	31,40	1,91	1910,83		458	532	0,532	0,5224	522,4	0,509117535	0,465873765	0,456273765	456,2737654	0,46	460	0,074	0,0624	62,4	0,093226278
Daggert	1	2	15	3	2	40	200	10	19:00	6	6	1	18:59:43	34,50	1,74	1739,13		436	512	0,512	0,5158	515,8	0,49665229	0,45833901	0,46213901	462,1390104	0,4372	437,2	0,076	0,0786	78,6	0,087815624
Daggert	1	2	15	3	2	40	200	10	20:00	7	7	1	19:59:44	36,30	1,65	1652,89		456	525	0,525	0,52	520	0,49039142	0,47759988	0,47259988	472,59988	0,4564	456,4	0,069	0,0636	63,6	0,086307797
Daggert	1	2	15	3	2	40	200	10	21:00	8	8	1	21:01:22	38,60	1,55	1554,40		421	503	0,503	0,501	501	0,483241161	0,462750139	0,460750139	460,7501391	0,424	424	0,082	0,077	77	0,080638803
Daggert	1	2	15	3	2	40	200	10	22:00	9	9	1	22:01:29	38,90	1,54	1542,42		416	490	0,49	0,4942	494,2	0,482370854	0,450620446	0,454820446	454,8204456	0,4194	419,4	0,074	0,0748	74,8	0,079236985
Daggert	1	2	15	3	2	40	200	10	23:00	10	10	1	23:01:27	34,80	1,72	1724,14		433	507	0,507	0,513	513	0,495563834	0,454427466	0,460427466	460,4274662	0,4312	431,2	0,074	0,0818	81,8	0,086961644
Daggert	1	2	15	3	2	40	200	10	00:00	11	11	1	00:00:13	29,10	2,06	2061,86		453	520	0,52	0,5274	527,4	0,520082142	0,442909158	0,450309158	450,3091584	0,4534	453,4	0,067	0,074	74	0,097767302
Daggert	1	2	15	3	2	40	200	10	01:00	12	12	1	01:02:29	30,90	1,94	1941,75		448	523	0,523	0,5212	521,2	0,511362294	0,454629006	0,452829006	452,8290062	0,4466	446,6	0,075	0,0746	74,6	0,093761634
Daggert	1	2	15	3	2	40	200	10	02:00	13	13	1	02:01:31	32,30	1,86	1857,59		450	520	0,52	0,5146	514,6	0,505252101	0,457739199	0,452339199	452,3391989	0,4502	450,2	0,07	0,0644	64,4	0,090545844
Daggert	1	2	15	3	2	40	200	10	03:00	14	14	1	03:02:40	34,90	1,72	1719,20		446	530	0,53	0,525	525	0,495205174	0,477786126	0,472786126	472,7861264	0,4452	445,2	0,084	0,0798	79,8	0,088868242
Daggert	1	2	15	3	2	40	200	10	04:00	15	15	1	03:59:54	30,00	2,00	2000,00		473	529	0,529	0,5374	537,4	0,51559142	0,45639988	0,46479988	464,79988	0,4738	473,8	0,056	0,0636	63,6	0,098115367
Daggert	1	2	15	3	2	40	200	10	05:00	16	16	1	05:03:10	30,40	1,97	1973,68		483	557	0,557	0,5576	557,6	0,513680894	0,486310406	0,486910406	486,9104063	0,4792	479,2	0,074	0,0784	78,4	0,101131389
Daggert	1	2	15	3	2	40	200	10	06:00	17	17	1	05:59:54	29,80	2,01	2013,42		482	549	0,549	0,5538	553,8	0,516565917	0,475425383	0,480225383	480,2253834	0,4824	482,4	0,067	0,0714	71,4	0,101448311
Daggert	1	2	15	3	2	40	200	10	07:00	18	18	1	07:01:24	32,30	1,86	1857,59		488	560	0,56	0,555	555	0,505252101	0,497739199	0,492739199	492,7391989	0,4852	485,2	0,072	0,0698	69,8	0,097654379
Daggert	1	2	15	3	2	40	200	10	08:00	19	19	1	08:00:45	39,20	1,53	1530,61		428	502	0,502	0,5034	503,4	0,481513869	0,463477431	0,464877431	464,877431	0,4272	427,2	0,074	0,0762	76,2	0,080402616
Daggert	1	2	15	3	2	40	200	10	09:00	20	20	1	09:00:27	37,60	1,60	1595,74		426	495	0,495	0,5022	502,2	0,486242484	0,451748816	0,458948816	458,9488162	0,4242	424,2	0,069	0,078	78	0,08189979
Daggert	1	2	15	3	2	40	200	10	10:00	21	21	1	10:01:05	31,60	1,90	1898,73		451	523	0,523	0,5264	526,4	0,508239521	0,457751779	0,461151779	461,1517787	0,4516	451,6	0,072	0,0748	74,8	0,093642358
Daggert	1	2	15	3	2	40	200	10	11:00	22	22	1	10:59:06	34,30	1,75	1749,27		443	527	0,527	0,5264	526,4	0,497388505	0,472602795	0,472002795	472,0027955	0,4422	442,2	0,084	0,0842	84,2	0,089881191
Daggert	1	2	15	3	2	40	200	10	12:00	23	23	1	12:02:10	31,00	1,94	1935,48		453	517	0,517	0,5248	524,8	0,510907549	0,449083751	0,456883751	456,883751	0,452	452	0,064	0,0728	72,8	0,094256863
Daggert	1	2	15	3	2	40	200	10	13:00	24	24	1	13:01:05	29,70	2,02	2020,20		456	532	0,532	0,53	530	0,517058087	0,457933213	0,455933213	455,9332133	0,4604	460,4	0,076	0,0696	69,6	0,097251799
Malakoff	2	2	7	1	2	40	200	10	14:00	1	1	1	14:02:16	31,30	1,92	1916,93	460	508	559	0,559	0,5616	561,6	0,509560749	0,492430551	0,495030551	495,0305509	0,5076	507,6	0,051	0,054	54	0,100381789
Malakoff	2	2	7	1	2	40	200	10	15:00	2	2	1	14:59:12	32,40	1,85	1851,85	433	482	535	0,535	0,5342	534,2	0,504835864	0,473155436	0,472355436	472,3554356	0,4832	483,2	0,053	0,051	51	0,093849374
Malakoff	2	2	7	1	2	40	200	10	16:00	3	3	1	16:00:38	31,40	1,91	1910,83	440	485	529	0,529	0,5378	537,8	0,509117535	0,462873765	0,471673765	471,6737654	0,4856	485,6	0,044	0,0522	52,2	0,095974526
Malakoff	2	2	7	1	2	40	200	10	17:00	4	4	1	16:59:29	40,70	1,47	1474,20	424	473	530	0,53	0,535	535	0,477418447	0,495572853	0,500572853	500,572853	0,4734	473,4	0,057	0,0616	61,6	0,083860332
Malakoff	2	2	7	1	2	40	200	10	18:00	5	5	1	18:01:07	34,90	1,72	1719,20	430	473	534	0,534	0,5344	534,4	0,495205174	0,481786126	0,482186126	482,1861264	0,4758	475,8	0,061	0,0586	58,6	0,090459407
Malakoff	2	2	7	1	2	40	200	10	19:00	6	6	1	19:02:03	34,90	1,72	1719,20	441	490	545	0,545	0,5388	538,8	0,495205174	0,492786126	0,486586126	486,5861264	0,4874	487,4	0,055	0,0514	51,4	0,091204207
Malakoff	2	2	7	1	2	40	200	10	20:00	7	7	1	20:01:34	36,90	1,63	1626,02	406	455	515	0,515	0,5134	513,4	0,4884402	0,4695511	0,4679511	467,9510995	0,454	454	0,06	0,0594	59,4	0,084516729
Malakoff	2	2	7	1	2	40	200	10	21:00	8	8	1	20:59:34	42,90	1,40	1398,60		435	497	0,497	0,4968	496,8	0,471929882	0,468061418	0,467861418	467,8614185	0,4364	436,4	0,062	0,0604	60,4	0,075849538

Horse	No	Stable	Age	Day	Gender	QTgain	QTfeed	HRfeed	Time	timex	tidxcopy	No	EKGtime	HR	RR	RRms	QTpeak1	Qtpeak2	QT	Qts	AvgQT	AvgQTms	StandardhorseRR>0,8021	QTc	AvgQTc	AvgQTcms	AvgQtpeak	AvgQtpeakms	Tptend	Tptendavg	TpTendavg(ms)	Bazett
Malakoff	2	2	7	1	2	40	200	10	22:00	9	9	1	22:02:24	35,10	1,71	1709,40	424	466	517	0,517	0,5094	509,4	0,494493984	0,465497316	0,457897316	457,8973159	0,465	465	0,051	0,0444	44,4	0,085981572
Malakoff	2	2	7	1	2	40	200	10	23:00	10	10	1	22:59:56	33,20	1,81	1807,23	431	478	527	0,527	0,5306	530,6	0,501596239	0,468395061	0,471995061	471,9950607	0,4756	475,6	0,049	0,055	55	0,092086974
Malakoff	2	2	7	1	2	40	200	10	00:00	11	11	1	23:58:03	31,90	1,88	1880,88	423	466	513	0,513	0,5144	514,4	0,506943144	0,449048156	0,450448156	450,4481559	0,4852	485,2	0,047	0,0292	29,2	0,09107635
Malakoff	2	2	7	1	2	40	200	10	01:00	12	12	1	01:01:23	34,30	1,75	1749,27	458	500	550	0,55	0,551	551	0,497388505	0,495602795	0,496602795	496,6027955	0,5	500	0,05	0,051	51	0,094081566
Malakoff	2	2	7	1	2	40	200	10	02:00	13	13	1	02:02:24	36,10	1,66	1662,05	438	483	530	0,53	0,5302	530,2	0,49105624	0,48193506	0,48213506	482,1350601	0,481	481	0,047	0,0492	49,2	0,08824419
Malakoff	2	2	7	1	2	40	200	10	03:00	14	14	1	03:01:15	33,40	1,80	1796,41	441	492	549	0,549	0,553	553	0,500810582	0,491180718	0,495180718	495,1807183	0,489	489	0,057	0,064	64	0,095686771
Malakoff	2	2	7	1	2	40	200	10	04:00	15	15	1	04:01:45	30,30	1,98	1980,20	456	503	557	0,557	0,5584	558,4	0,514153796	0,485837504	0,487237504	487,2375038	0,5038	503,8	0,054	0,0546	54,6	0,10144347
Malakoff	2	2	7	1	2	40	200	10	07:00	18	18	1	06:58:41	38,90	1,54	1542,42	421	470	525	0,525	0,5324	532,4	0,482370854	0,485620446	0,493020446	493,0204456	0,4716	471,6	0,055	0,0608	60,8	0,085361737
Malakoff	2	2	7	1	2	40	200	10	08:00	19	19	1	07:55:33	36,30	1,65	1652,89		455	507	0,507	0,515	515	0,49039142	0,45959988	0,46759988	467,59988	0,4528	452,8	0,052	0,0622	62,2	0,085477914
Malakoff	2	2	7	1	2	40	200	10	09:00	20	20	1	09:01:29	32,50	1,85	1846,15	440	480	539	0,539	0,5312	531,2	0,504422189	0,477569111	0,469769111	469,7691108	0,4792	479,2	0,059	0,052	52	0,093178644
Malakoff	2	2	7	1	2	40	200	10	10:00	21	21	1	10:01:51	38,10	1,57	1574,80		451	530	0,53	0,5252	525,2	0,484722129	0,488269171	0,483469171	483,4691713	0,4524	452,4	0,079	0,0728	72,8	0,085086808
Malakoff	2	2	7	1	2	40	200	10	11:00	22	22	1	11:03:47	32,20	1,86	1863,35		471	539	0,539	0,5352	535,2	0,505670923	0,476320377	0,472520377	472,5203769	0,47	470	0,068	0,0652	65,2	0,094316607
Malakoff	2	2	7	1	2	40	200	10	12:00	23	23	1	12:01:23	34,20	1,75	1754,39		448	517	0,517	0,518	518	0,497759841	0,462231459	0,463231459	463,2314589	0,4498	449,8	0,069	0,0682	68,2	0,088576131
Malakoff	2	2	7	1	2	40	200	10	13:00	24	24	1	13:01:02	28,00	2,14	2142,86	436	482	537	0,537	0,5412	541,2	0,525962849	0,454028451	0,458228451	458,2284514	0,4826	482,6	0,055	0,0586	58,6	0,102277186
Malakoff	2	2	7	2	2	40	200	10	14:00	1	1	1	13:59:22	43,00	1,40	1395,35		460	520	0,52	0,5214	521,4	0,471693746	0,491297554	0,492697554	492,6975544	0,4598	459,8	0,06	0,0616	61,6	0,079512755
Malakoff	2	2	7	2	2	40	200	10	15:00	2	2	1	15:00:51	41,30	1,45	1452,78		440	498	0,498	0,5026	502,6	0,475863575	0,465127725	0,469727725	469,727725	0,441	441	0,058	0,0616	61,6	0,07820733
Malakoff	2	2	7	2	2	40	200	10	16:00	3	3	1	15:59:12	42,30	1,42	1418,44	406	448	500	0,5	0,5064	506,4	0,473370143	0,469621157	0,476021157	476,0211566	0,4516	451,6	0,052	0,0548	54,8	0,077861634
Malakoff	2	2	7	2	2	40	200	10	17:00	4	4	1	17:00:00	43,50	1,38	1379,31		428	492	0,492	0,4894	489,4	0,470529351	0,464461949	0,461861949	461,861949	0,424	424	0,064	0,0654	65,4	0,074202637
Malakoff	2	2	7	2	2	40	200	10	18:00	5	5	1	18:01:23	37,00	1,62	1621,62	403	445	508	0,508	0,499	499	0,48812115	0,46287015	0,45387015	453,8701503	0,4458	445,8	0,063	0,0532	53,2	0,082035095
Malakoff	2	2	7	2	2	40	200	10	19:00	6	6	1	19:02:07	48,30	1,24	1242,24		414	490	0,49	0,4832	483,2	0,460577755	0,472413545	0,465613545	465,6135446	0,4148	414,8	0,076	0,0684	68,4	0,069526979
Malakoff	2	2	7	2	2	40	200	10	20:00	7	7	1	20:00:34	49,30	1,22	1217,04		413	471	0,471	0,4786	478,6	0,458748418	0,455242882	0,462842882	462,842882	0,4148	414,8	0,058	0,0638	63,8	0,068163084
Malakoff	2	2	7	2	2	40	200	10	21:00	8	8	1	20:59:58	47,20	1,27	1271,19		409	468	0,468	0,473	473	0,462679556	0,448311744	0,453311744	453,3117444	0,4092	409,2	0,059	0,0638	63,8	0,068847812
Malakoff	2	2	7	2	2	40	200	10	22:00	9	9	1	22:00:41	37,30	1,61	1608,58	396	441	502	0,502	0,498	498	0,487174262	0,457817038	0,453817038	453,8170382	0,4398	439,8	0,061	0,0582	58,2	0,081540792
Malakoff	2	2	7	2	2	40	200	10	23:00	10	10	1	23:00:35	38,20	1,57	1570,68	406	445	512	0,512	0,507	507	0,484422834	0,470568466	0,465568466	465,5684664	0,4446	444,6	0,067	0,0624	62,4	0,082030674
Malakoff	2	2	7	2	2	40	200	10	00:00	11	11	1	00:00:56	34,90	1,72	1719,20	416	460	520	0,52	0,5172	517,2	0,495205174	0,467786126	0,464986126	464,9861264	0,4552	455,2	0,06	0,062	62	0,087547914
Malakoff	2	2	7	2	2	40	200	10	01:00	12	12	1	01:00:58	34,90	1,72	1719,20	411	460	505	0,505	0,5126	512,6	0,495205174	0,452786126	0,460386126	460,3861264	0,4612	461,2	0,045	0,0514	51,4	0,086769259
Malakoff	2	2	7	2	2	40	200	10	02:00	13	13	1	02:02:01	41,80	1,44	1435,41		443	515	0,515	0,511	511	0,474601946	0,483389354	0,479389354	479,3893537	0,4432	443,2	0,072	0,0678	67,8	0,079037421
Malakoff	2	2	7	2	2	40	200	10	03:00	14	14	1	02:59:46	34,50	1,74	1739,13	406	450	517	0,517	0,5118	511,8	0,49665229	0,46333901	0,45813901	458,1390104	0,4528	452,8	0,067	0,059	59	0,087134618
Malakoff	2	2	7	2	2	40	200	10	04:00	15	15	1	03:59:58	36,20	1,66	1657,46	414	461	515	0,515	0,5116	511,6	0,490722912	0,467268388	0,463868388	463,8683883	0,4616	461,6	0,054	0,05	50	0,085030797
Malakoff	2	2	7	2	2	40	200	10	05:00	16	16	1	04:59:36	35,50	1,69	1690,14	423	471	534	0,534	0,5346	534,6	0,493095645	0,483895655	0,484495655	484,4956546	0,4718	471,8	0,063	0,0628	62,8	0,089725271
Malakoff	2	2	7	2	2	40	200	10	06:00	17	17	1	06:00:26	36,00	1,67	1666,67	416	461	523	0,523	0,5182	518,2	0,49139142	0,47459988	0,46979988	469,79988	0,4596	459,6	0,062	0,0586	58,6	0,086366667
Malakoff	2	2	7	2	2	40	200	10	07:00	18	18	1	07:02:17	41,50	1,45	1445,78		446	525	0,525	0,5166	516,6	0,475355275	0,492636025	0,484236025	484,2360246	0,448	448	0,079	0,0686	68,6	0,080191872
Malakoff	2	2	7	2	2	40	200	10	08:00	19	19	1	07:58:16	32,90	1,82	1823,71	409	451	510	0,51	0,5134	513,4	0,502792636	0,450198664	0,453598664	453,5986642	0,4516	451,6	0,059	0,0618	61,8	0,089507188
Malakoff	2	2	7	2	2	40	200	10	09:00	20	20	1	09:00:59	31,30	1,92	1916,93	428	475	532	0,532	0,5264	526,4	0,509560749	0,465430551	0,459830551	459,8305509	0,4764	476,4	0,057	0,05	50	0,094090053
Malakoff	2	2	7	2	2	40	200	10	10:00	21	21	1	10:00:38	31,20	1,92	1923,08	404	453	497	0,497	0,5062	506,2	0,510006805	0,429984495	0,439184495	439,1844954	0,46	460	0,044	0,0462	46,2	0,090624337
Malakoff	2	2	7	2	2	40	200	10	11:00	22	22	1	11:00:29	32,60	1,84	1840,49	421	471	508	0,508	0,5136	513,6	0,504011052	0,446980248	0,452580248	452,5802481	0,47	470	0,037	0,0436	43,6	0,089953117
Malakoff	2	2	7	2	2	40	200	10	12:00	23	23	1	12:00:36	33,60	1,79	1785,71	424	468	515	0,515	0,5118	511,8	0,500034277	0,457957023	0,454757023	454,7570229	0,4668	466,8	0,047	0,045	45	0,088293888
Malakoff	2	2	7	2	2	40	200	10	13:00	24	24	1	13:01:21	36,50	1,64	1643,84		440	492	0,492	0,4966	496,6	0,489733886	0,445257414	0,449857414	449,8574142	0,4432	443,2	0,052	0,0534	53,4	0,082197817
Malakoff	2	2	7	3	2	40	200	10	14:00	1	1	1	14:00:14	38,40	1,56	1562,50	414	461	512	0,512	0,5144	514,4	0,48382892	0,47116238	0,47356238	473,56238	0,4632	463,2	0,051	0,0512	51,2	0,083010943
Malakoff	2	2	7	3	2	40	200	10	15:00	2	2	1	14:56:46	46,40	1,29	1293,10		433	493	0,493	0,4956	495,6	0,46427073	0,47172057	0,47432057	474,3205697	0,4358	435,8	0,06	0,0598	59,8	0,072756585
Malakoff	2	2	7	3	2	40	200	10	16:00	3	3	1	16:00:13	43,00	1,40	1395,35		421	478	0,478	0,485	485	0,471693746	0,449297554	0,456297554	456,2975544	0,4218	421,8	0,057	0,0632	63,2	0,073961807
Malakoff	2	2	7	3	2	40	200	10	17:00	4	4	1	16:59:25	42,80	1,40	1401,87		440	505	0,505	0,5036	503,6	0,472167121	0,475824179	0,474424179	474,4241791	0,441	441	0,065	0,0626	62,6	0,076977506
Malakoff	2	2	7	3	2	40	200	10	18:00	5	5	1	17:59:56	33,90	1,77	1769,91	413	455	503	0,503	0,5134	513,4	0,498886995	0,447104305	0,457504305	457,5043048	0,4574	457,4	0,048	0,056	56	0,088177141
Malakoff	2	2	7	3	2	40	200	10	19:00	6	6	1	19:00:54	32,00	1,88	1875,00	421	461	518	0,518	0,5224	522,4	0,50651642	0,45447488	0,45887488	458,87488	0,4654	465,4	0,057	0,057	57	0,092348146
Malakoff	2	2	7	3	2	40	200	10	20:00	7	7	1	20:01:21	37,80	1,59	1587,30	414	458	518	0,518	0,5102	510,2	0,485629515	0,475361785	0,467561785	467,5617848	0,4596	459,6	0,06	0,0506	50,6	0,082984036
Malakoff	2	2	7	3	2	40	200	10	21:00	8	8	1	21:01:55	46,80	1,28	1282,05		416	480	0,48	0,4814	481,4	0,463468343	0,459522957	0,460922957	460,9229569	0,4194	419,4	0,064	0,062	62	0,070369288
Malakoff	2	2	7	3	2	40	200	10	22:00	9	9	1	21:56:32	43,40	1,38	1382,49		438	503	0,503	0,4986	498,6	0,470760084	0,475231216	0,470831216	470,8312164	0,4364	436,4	0,065	0,0622	62,2	0,075684581
Malakoff	2	2	7	3	2	40	200	10	23:00	10	10	1	22:59:45	33,50	1,79	1791,04	430	470	512	0,512	0,519	519	0,500421271	0,454570029	0,461570029	461,5700293	0,469	469	0,042	0,05	50	0,089669543
Malakoff	2	2	7	3	2	40	200	10	00:00	11	11	1	23:58:07	39,10	1,53	1534,53	404	446	502	0,502	0,5014	501,4	0,48179807	0,46319323	0,46259323	462,5932304	0,447	447	0,056	0,0544	54,4	0,08018552
Malakoff	2	2	7	3	2	40	200	10	01:00	12	12	1	01:01:31	31,50	1,90	1904,76	431	475	540	0,54	0,53	530	0,508677134	0,474314166	0,464314166	464,3141657	0,4754	475,4	0,065	0,0546	54,6	0,094432305
Malakoff	2	2	7	3	2	40	200	10	02:00	13	13	1	02:00:06	33,80	1,78	1775,15	440	487	534	0,534	0,5342	534,2	0,49926716	0,47772414	0,47792414	477,9241404	0,4838	483,8	0,047	0,0504	50,4	0,091885193
Malakoff	2	2	7	3	2	40	200	10	03:00	14	14	1	03:01:01	32,20	1,86	1863,35	433	475	540	0,54	0,5374	537,4	0,505670923	0,477320377	0,474720377	474,7203769	0,478	478	0,065	0,0594	59,4	0,094704306
Malakoff	2	2	7	3	2	40	200	10	04:00	15	15	1	04:00:16	32,30	1,86	1857,59	445	495	527	0,527	0,5322	532,2	0,505252101	0,464739199	0,469939199	469,9391989	0,4906	490,6	0,032	0,0416	41,6	0,093642631
Malakoff	2	2	7	3	2	40	200	10	05:00	16	16	1	04:58:10	32,80	1,83	1829,27	441	488	539	0,539	0,5424	542,4	0,503196298	0,478795002	0,482195002	482,195002	0,491	491	0,051	0,0514	51,4	0,094707148
Malakoff	2	2	7	3	2	40	200	10	06:00	17	17	1	06:01:45	30,70	1,95	1954,40	446	495	557	0,557	0,5556	555,6	0,512280671	0,487710629	0,486310629	486,3106292	0,4934	493,4	0,062	0,0622	62,2	0,100275087
Malakoff	2	2	7	3	2	40	200	10	08:00	19	19	1	07:59:59	38,10	1,57	1574,80	409	460	525	0,525	0,521	521	0,484722129	0,483269171	0,479269171	479,2691713	0,462	462	0,065	0,059	59	0,084406372
Malakoff	2	2	7	3	2	40	200	10	09:00	20	20	1	09:02:49	42,00	1,43	1428,57		448	523	0,523	0,5084	508,4	0,474105706	0,491885594	0,477285594	477,2855943	0,448	448	0,075	0,0604	60,4	0,078447823
Malakoff	2	2	7	3	2	40	200	10	10:00	21	21	1	10:01:16	42,90	1,40	1398,60		438	505	0,505	0,505	505	0,471929882	0,476061418	0,476061418	476,0614185	0,442	442	0,067	0,063	63	0,077101483
Malakoff	2	2	7	3	2	40	200	10	11:00	22	22	1	11:01:25	34,10	1,76	1759,53	409	451	505	0,505	0,5092	509,2	0,498133355	0,449857945	0,454057945	454,0579445	0,4578	457,8	0,054	0,0514	51,4	0,08719894
Malakoff	2	2	7	3	2	40	200	10	12:00	23	23	1	11:59:15	44,90	1,34	1336,30		431	487	0,487	0,4888	488,8	0,46740701	0,46258429	0,46438429	464,3842898	0,4306	430,6	0,056	0,0582	58,2	0,072947099
Malakoff	2	2	7	3	2	40	200	10	13:00	24	24	1	13:01:52	32,20	1,86	1863,35	418	466	530	0,53	0,516	516	0,505670923	0,467320377	0,453320377	453,3203769	0,4634	463,4	0,064	0,0526	52,6	0,090933052
Golan	3	2	12	1	2	40	200	10	14:00	1	1	1	14:03:02	40,80	1,47	1470,59		453	505	0,505	0,5044	504,4	0,477156126	0,470835174	0,470235174	470,2351741	0,451	451	0,052	0,0534	53,4	0,078966883
Golan	3	2	12	1	2	40	200	10	15:00	2	2	1	14:57:25	35,50	1,69	1690,14	419	458	503	0,503	0,518	518	0,493095645	0,452895655	0,467895655	467,8956546	0,4594	459,4	0,045	0,0586	58,6	0,086939189
Golan	3	2	12	1	2	40	200	10	16:00	3	3	1	15:59:51	32,90	1,82	1823,71	424	461	522	0,522	0,5216	521,6	0,502792636	0,462198664	0,461798664	461,7986642	0,4606	460,6	0,061	0,061	61	0,090936793
Golan	3	2	12	1	2	40	200	10	17:00	4	4	1	17:01:05	31,40	1,91	1910,83	414	458	510	0,51	0,52	520	0,509117535	0,443873765	0,453873765	453,8737654	0,4634	463,4	0,052	0,0566	56,6	0,092797979
Golan	3	2	12	1	2	40	200	10	18:00	5	5	1	18:01:32	32,60	1,84	1840,49	419	458	512	0,512	0,5188	518,8	0,504011052	0,450980248	0,457780248	457,7802481	0,4596	459,6	0,054	0,0592	59,2	0,090863857
Golan	3	2	12	1	2	40	200	10	19:00	6	6	1	18:55:23	34,90	1,72	1719,20		446	497	0,497	0,505	505	0,495205174	0,444786126	0,452786126	452,7861264	0,4462	446,2	0,051	0,0588	58,8	0,085482785
Golan	3	2	12	1	2	40	200	10	20:00	7	7	1	19:57:24	31,50	1,90	1904,76		451	517	0,517	0,5134	513,4	0,508677134	0,451314166	0,447714166	447,7141657	0,4522	452,2	0,066	0,0612	61,2	0,091474614
Golan	3	2	12	1	2	40	200	10	21:00	8	8	1	21:00:09	36,50	1,64	1643,84		436	515	0,515	0,5072	507,2	0,489733886	0,468257414	0,460457414	460,4574142	0,4376	437,6	0,079	0,0696	69,6	0,083952341
Golan	3	2	12	1	2	40	200	10	22:00	9	9	1	22:01:02	32,90	1,82	1823,71	399	441	488	0,488	0,5074	507,4	0,502792636	0,428198664	0,447598664	447,5986642	0,4652	465,2	0,047	0,0422	42,2	0,088461136
Golan	3	2	12	1	2	40	200	10	23:00	10	10	1	23:00:19	35,20	1,70	1704,55	399	440	490	0,49	0,4956	495,6	0,49414142	0,43884988	0,44444988	444,44988	0,4474	447,4	0,05	0,0482	48,2	0,083533363
Golan	3	2	12	1	2	40	200	10	00:00	11	11	1	00:03:57	31,60	1,90	1898,73		453	508	0,508	0,5082	508,2	0,508239521	0,442751779	0,442951779	442,9517787	0,4496	449,6	0,055	0,0586	58,6	0,090404723
Golan	3	2	12	1	2	40	200	10	01:00	12	12	1	01:00:28	34,50	1,74	1739,13	409	451	505	0,505	0,5016	501,6	0,49665229	0,45133901	0,44793901	447,9390104	0,452	452	0,054	0,0496	49,6	0,085398055
Golan	3	2	12	1	2	40	200	10	02:00	13	13	1	02:02:04	34,00	1,76	1764,71		445	502	0,502	0,5052	505,2	0,498509067	0,446482233	0,449682233	449,6822329	0,4454	445,4	0,057	0,0598	59,8	0,086641085
Golan	3	2	12	1	2	40	200	10	03:00	14	14	1	03:00:58	31,40	1,91	1910,83		458	527	0,527	0,5218	521,8	0,509117535	0,460873765	0,455673765	455,6737654	0,457	457	0,069	0,0648	64,8	0,093119203
Golan	3	2	12	1	2	40	200	10	04:00	15	15	1	04:00:11	32,30	1,86	1857,59	409	455	522	0,522	0,5204	520,4	0,505252101	0,459739199	0,458139199	458,1391989	0,4614	461,4	0,067	0,059	59	0,091566376
Golan	3	2	12	1	2	40	200	10	05:00	16	16	1	05:00:07	30,60	1,96	1960,78		465	523	0,523	0,5232	523,2	0,512744361	0,453246939	0,453446939	453,4469388	0,463	463	0,058	0,0602	60,2	0,09458168
Golan	3	2	12	1	2	40	200	10	06:00	17	17	1	06:03:41	32,80	1,83	1829,27		451	513	0,513	0,5214	521,4	0,503196298	0,452795002	0,461195002	461,195002	0,4566	456,6	0,062	0,0648	64,8	0,091040389
Golan	3	2	12	1	2	40	200	10	07:00	18	18	1	07:03:33	39,50	1,52	1518,99		460	529	0,529	0,5192	519,2	0,480669901	0,491321399	0,481521399	481,521399	0,4568	456,8	0,069	0,0624	62,4	0,082610668
Golan	3	2	12	1	2	40	200	10	08:00	19	19	1	08:01:04	29,00	2,07	2068,97	426	466	522	0,522	0,5194	519,4	0,520598317	0,444392983	0,441792983	441,7929834	0,466	466	0,056	0,0534	53,4	0,096450159

Horse	No	Stable	Age	Day	Gender	QTgain	QTfeed	HRfeed	Time	timex	tidxcopy	No	EKGtime	HR	RR	RRms	QTpeak1	Qtpeak2	QT	Qts	AvgQT	AvgQTms	StandardhorseRR>0,8021	QTc	AvgQTc	AvgQTcms	AvgQtpeak	AvgQtpeakms	Tptend	Tptendavg	TpTendavg(ms)	Bazett
Golan	3	2	12	1	2	40	200	10	09:00	20	20	1	09:04:51	30,90	1,94	1941,75		446	498	0,498	0,5076	507,6	0,511362294	0,429629006	0,439229006	439,2290062	0,4518	451,8	0,052	0,0558	55,8	0,091315053
Golan	3	2	12	1	2	40	200	10	10:00	21	21	1	10:03:16	33,10	1,81	1812,69		453	520	0,52	0,5122	512,2	0,501992628	0,460998672	0,453198672	453,1986715	0,4522	452,2	0,067	0,06	60	0,089027787
Golan	3	2	12	1	2	40	200	10	11:00	22	22	1	11:00:09	29,10	2,06	2061,86	431	470	523	0,523	0,5216	521,6	0,520082142	0,445909158	0,444509158	444,5091584	0,469	469	0,053	0,0526	52,6	0,096692121
Golan	3	2	12	1	2	40	200	10	12:00	23	23	1	12:04:12	30,60	1,96	1960,78		460	523	0,523	0,5212	521,2	0,512744361	0,453246939	0,451446939	451,4469388	0,4602	460,2	0,063	0,061	61	0,094220129
Golan	3	2	12	1	2	40	200	10	13:00	24	24	1	12:59:47	27,10	2,21	2214,02	430	468	527	0,527	0,5358	535,8	0,531129427	0,438861873	0,447661873	447,6618726	0,4748	474,8	0,059	0,061	61	0,102924334
Golan	3	2	12	2	2	40	200	10	14:00	1	1	1	14:02:57	35,10	1,71	1709,40		443	495	0,495	0,5014	501,4	0,494493984	0,443497316	0,449897316	449,8973159	0,4434	443,4	0,052	0,058	58	0,084631253
Golan	3	2	12	2	2	40	200	10	15:00	2	2	1	14:59:49	32,90	1,82	1823,71	419	458	517	0,517	0,516	516	0,502792636	0,457198664	0,456198664	456,1986642	0,46	460	0,059	0,056	56	0,089960478
Golan	3	2	12	2	2	40	200	10	16:00	3	3	1	16:00:05	34,40	1,74	1744,19		458	523	0,523	0,5164	516,4	0,497019327	0,468971973	0,462371973	462,371973	0,456	456	0,065	0,0604	60,4	0,088045469
Golan	3	2	12	2	2	40	200	10	17:00	4	4	1	16:59:55	39,00	1,54	1538,46		421	482	0,482	0,4908	490,8	0,482083728	0,442907572	0,451707572	451,7075723	0,4258	425,8	0,061	0,065	65	0,078590898
Golan	3	2	12	2	2	40	200	10	18:00	5	5	1	18:02:20	32,70	1,83	1834,86		450	508	0,508	0,5084	508,4	0,503602429	0,447388871	0,447788871	447,7888708	0,45	450	0,058	0,0584	58,4	0,088906122
Golan	3	2	12	2	2	40	200	10	19:00	6	6	1	19:00:56	32,90	1,82	1823,71		460	518	0,518	0,5132	513,2	0,502792636	0,458198664	0,453398664	453,3986642	0,4574	457,4	0,058	0,0558	55,8	0,08947232
Golan	3	2	12	2	2	40	200	10	20:00	7	7	1	20:00:26	36,40	1,65	1648,35		441	507	0,507	0,5098	509,8	0,49006175	0,45992955	0,46272955	462,7295503	0,442	442	0,066	0,0678	67,8	0,084498527
Golan	3	2	12	2	2	40	200	10	21:00	8	8	1	20:59:32	32,20	1,86	1863,35		445	500	0,5	0,5052	505,2	0,505670923	0,437320377	0,442520377	442,5203769	0,4432	443,2	0,055	0,062	62	0,089029802
Golan	3	2	12	2	2	40	200	10	22:00	9	9	1	22:01:11	34,10	1,76	1759,53		445	507	0,507	0,4994	499,4	0,498133355	0,451857945	0,444257945	444,2579445	0,4426	442,6	0,062	0,0568	56,8	0,08552072
Golan	3	2	12	2	2	40	200	10	23:00	10	10	1	22:57:53	31,40	1,91	1910,83	411	450	503	0,503	0,5032	503,2	0,509117535	0,436873765	0,437073765	437,0737654	0,4526	452,6	0,053	0,0506	50,6	0,089799891
Golan	3	2	12	2	2	40	200	10	00:00	11	11	1	23:59:59	32,30	1,86	1857,59	406	445	492	0,492	0,5004	500,4	0,505252101	0,429739199	0,438139199	438,1391989	0,4442	444,2	0,047	0,0562	56,2	0,088047299
Golan	3	2	12	2	2	40	200	10	01:00	12	12	1	00:59:54	32,50	1,85	1846,15	418	458	513	0,513	0,5146	514,6	0,504422189	0,451569111	0,453169111	453,1691108	0,4566	456,6	0,055	0,058	58	0,090266811
Golan	3	2	12	2	2	40	200	10	03:00	14	14	1	03:02:33	29,90	2,01	2006,69		471	520	0,52	0,528	528	0,516077039	0,446914261	0,454914261	454,9142613	0,4676	467,6	0,049	0,0604	60,4	0,096560238
Golan	3	2	12	2	2	40	200	10	04:00	15	15	1	04:01:13	34,30	1,75	1749,27	413	461	532	0,532	0,5226	522,6	0,497388505	0,477602795	0,468202795	468,2027955	0,4604	460,4	0,071	0,0622	62,2	0,089232353
Golan	3	2	12	2	2	40	200	10	05:00	16	16	1	04:56:12	29,70	2,02	2020,20	443	485	540	0,54	0,5388	538,8	0,517058087	0,465933213	0,464733213	464,7332133	0,484	484	0,055	0,0548	54,8	0,098866546
Golan	3	2	12	2	2	40	200	10	06:00	17	17	1	06:01:46	33,90	1,77	1769,91	443	487	539	0,539	0,5474	547,4	0,498866995	0,483104305	0,491504305	491,5043048	0,4892	489,2	0,052	0,0582	58,2	0,094016687
Golan	3	2	12	2	2	40	200	10	07:00	18	18	1	07:03:57	32,60	1,84	1840,49		453	505	0,505	0,5084	508,4	0,504011052	0,443980248	0,447380248	447,3802481	0,447	447	0,052	0,0614	61,4	0,089042376
Golan	3	2	12	2	2	40	200	10	08:00	19	19	1	08:03:11	31,60	1,90	1898,73		466	527	0,527	0,5308	530,8	0,508239521	0,461751779	0,465551779	465,5517787	0,468	468	0,061	0,0628	62,8	0,094425082
Golan	3	2	12	2	2	40	200	10	09:00	20	20	1	09:03:12	30,10	1,99	1993,36	436	475	545	0,545	0,5322	532,2	0,515109028	0,472882272	0,460082272	460,082272	0,4744	474,4	0,07	0,0578	57,8	0,097004442
Golan	3	2	12	2	2	40	200	10	10:00	21	21	1	10:04:46	30,80	1,95	1948,05		483	540	0,54	0,5364	536,4	0,511819991	0,471171309	0,467571309	467,5713086	0,4736	473,6	0,057	0,0628	62,8	0,096652571
Golan	3	2	12	2	2	40	200	10	11:00	22	22	1	11:02:48	31,10	1,93	1929,26	451	488	544	0,544	0,5394	539,4	0,510455729	0,476535571	0,471935571	471,9355713	0,488	488	0,056	0,0514	51,4	0,09672322
Golan	3	2	12	2	2	40	200	10	13:00	24	24	1	12:58:55	29,00	2,07	2068,97	438	473	534	0,534	0,5316	531,6	0,520598317	0,456392983	0,453992983	453,9929834	0,4756	475,6	0,061	0,056	56	0,098715642
Golan	3	2	12	3	2	40	200	10	14:00	1	1	1	14:01:38	37,60	1,60	1595,74		475	527	0,527	0,5282	528,2	0,486242484	0,483748816	0,484948816	484,9488162	0,4736	473,6	0,052	0,0546	54,6	0,086139922
Golan	3	2	12	3	2	40	200	10	15:00	2	2	1	15:01:22	36,90	1,63	1626,02		448	508	0,508	0,513	513	0,4884402	0,4625511	0,4675511	467,5510995	0,4528	452,8	0,06	0,0602	60,2	0,084450881
Golan	3	2	12	3	2	40	200	10	16:00	3	3	1	16:02:24	38,20	1,57	1570,68		443	503	0,503	0,5024	502,4	0,484422834	0,461568466	0,460968466	460,9684664	0,4424	442,4	0,06	0,06	60	0,081286411
Golan	3	2	12	3	2	40	200	10	17:00	4	4	1	16:58:08	40,10	1,50	1496,26		435	490	0,49	0,4918	491,8	0,479019849	0,453971451	0,455771451	455,7714511	0,4338	433,8	0,055	0,058	58	0,077663389
Golan	3	2	12	3	2	40	200	10	18:00	5	5	1	18:01:09	32,30	1,86	1857,59	413	448	502	0,502	0,5054	505,4	0,505252101	0,439739199	0,443139199	443,1391989	0,4466	446,6	0,054	0,0588	58,8	0,088927069
Golan	3	2	12	3	2	40	200	10	19:00	6	6	1	19:03:21	39,40	1,52	1522,84		424	480	0,48	0,486	486	0,480949796	0,442041504	0,448041504	448,0415044	0,4234	423,4	0,056	0,0626	62,6	0,077426238
Golan	3	2	12	3	2	40	200	10	20:00	7	7	1	19:59:35	42,00	1,43	1428,57		423	497	0,497	0,4884	488,4	0,474105706	0,465885594	0,457285594	457,2855943	0,422	422	0,074	0,0664	66,4	0,075361756
Golan	3	2	12	3	2	40	200	10	21:00	8	8	1	21:02:29	44,30	1,35	1354,40		416	482	0,482	0,4828	482,8	0,468720991	0,456270309	0,457070309	457,0703089	0,4162	416,2	0,066	0,0666	66,6	0,07253797
Golan	3	2	12	3	2	40	200	10	22:00	9	9	1	22:00:58	40,40	1,49	1485,15		411	487	0,487	0,482	482	0,478213202	0,451778098	0,446778098	446,7780978	0,4114	411,4	0,076	0,0706	70,6	0,075832671
Golan	3	2	12	3	2	40	200	10	23:00	10	10	1	22:57:34	40,70	1,47	1474,20		419	477	0,477	0,478	478	0,477418447	0,442572853	0,443572853	443,572853	0,4184	418,4	0,058	0,0596	59,6	0,07492568
Golan	3	2	12	3	2	40	200	10	00:00	11	11	1	23:58:09	35,30	1,70	1699,72		418	463	0,463	0,476	476	0,493790853	0,412200447	0,425200447	425,2004466	0,423	423	0,045	0,053	53	0,080116063
Golan	3	2	12	3	2	40	200	10	01:00	12	12	1	01:00:27	39,50	1,52	1518,99		426	488	0,488	0,4916	491,6	0,480669901	0,450321399	0,453921399	453,921399	0,4294	429,4	0,062	0,0622	62,2	0,078219192
Golan	3	2	12	3	2	40	200	10	02:00	13	13	1	01:59:50	34,30	1,75	1749,27		431	487	0,487	0,489	489	0,497388505	0,432602795	0,434602795	434,6027955	0,4342	434,2	0,056	0,0548	54,8	0,083495256
Golan	3	2	12	3	2	40	200	10	03:00	14	14	1	03:00:58	37,20	1,61	1612,90		440	497	0,497	0,5036	503,6	0,487488194	0,452503106	0,459103106	459,1031058	0,4386	438,6	0,057	0,065	65	0,082568473
Golan	3	2	12	3	2	40	200	10	04:00	15	15	1	04:00:52	32,90	1,82	1823,71		430	473	0,473	0,4774	477,4	0,502792636	0,413198664	0,417598664	417,5986642	0,4272	427,2	0,043	0,0502	50,2	0,083230876
Golan	3	2	12	3	2	40	200	10	05:00	16	16	1	05:00:20	32,20	1,86	1863,35	393	435	493	0,493	0,4976	497,6	0,505670923	0,430320377	0,434920377	434,9203769	0,4408	440,8	0,058	0,0568	56,8	0,087690478
Golan	3	2	12	3	2	40	200	10	06:00	17	17	1	05:57:17	35,60	1,69	1685,39		450	508	0,508	0,5114	511,4	0,492750971	0,458240329	0,461640329	461,6403294	0,452	452	0,058	0,0594	59,4	0,085710835
Golan	3	2	12	3	2	40	200	10	07:00	18	18	1	07:03:56	34,00	1,76	1764,71		453	520	0,52	0,5106	510,6	0,498509067	0,464482233	0,455082233	455,0822329	0,451	451	0,067	0,0596	59,6	0,087567178
Golan	3	2	12	3	2	40	200	10	08:00	19	19	1	08:04:32	37,30	1,61	1608,58		435	492	0,492	0,4966	496,6	0,487174262	0,447817038	0,452417038	452,4170382	0,4384	438,4	0,057	0,0582	58,2	0,081311561
Golan	3	2	12	3	2	40	200	10	09:00	20	20	1	09:04:44	36,50	1,64	1643,84		436	498	0,498	0,4986	498,6	0,489733886	0,451257414	0,451857414	451,8574142	0,4372	437,2	0,062	0,0614	61,4	0,082528859
Golan	3	2	12	3	2	40	200	10	10:00	21	21	1	10:01:07	32,30	1,86	1857,59		443	495	0,495	0,503	503	0,505252101	0,432739199	0,440739199	440,7391989	0,4426	442,6	0,052	0,0604	60,4	0,088504779
Golan	3	2	12	3	2	40	200	10	11:00	22	22	1	11:01:05	31,70	1,89	1892,74	409	453	502	0,502	0,4962	496,2	0,507804669	0,437186631	0,431386631	431,3866308	0,4486	448,6	0,049	0,0476	47,6	0,088130682
Golan	3	2	12	3	2	40	200	10	12:00	23	23	1	11:59:43	33,50	1,79	1791,04		450	518	0,518	0,5082	508,2	0,500421271	0,460570029	0,450770029	450,7700293	0,4478	447,8	0,068	0,0604	60,4	0,087803587
Golan	3	2	12	3	2	40	200	10	13:00	24	24	1	13:01:14	31,70	1,89	1892,74	411	455	512	0,512	0,505	505	0,507804669	0,447186631	0,440186631	440,1866308	0,4534	453,4	0,057	0,0516	51,6	0,08969366
Missil	4	2	7	1	2	40	200	10	14:00	1	1	1	14:00:47	40,20	1,49	1492,54	433	468	534	0,534	0,5298	529,8	0,478749629	0,498241671	0,494041671	494,041671	0,468	468	0,066	0,0618	61,8	0,083560095
Missil	4	2	7	1	2	40	200	10	15:00	2	2	1	14:55:38	38,80	1,55	1546,39		438	503	0,503	0,5056	505,6	0,482659461	0,463331839	0,465931839	465,9318388	0,44	440	0,065	0,0656	65,6	0,081169188
Missil	4	2	7	1	2	40	200	10	16:00	3	3	1	16:00:10	32,30	1,86	1857,59	433	471	529	0,529	0,5286	528,6	0,505252101	0,466739199	0,466339199	466,3391989	0,4676	467,6	0,058	0,061	61	0,093009198
Missil	4	2	7	1	2	40	200	10	17:00	4	4	1	17:01:29	38,70	1,55	1550,39		440	507	0,507	0,5086	508,6	0,48294956	0,46704174	0,46864174	468,6417405	0,4406	440,6	0,067	0,068	68	0,081756233
Missil	4	2	7	1	2	40	200	10	18:00	5	5	1	18:02:00	31,90	1,88	1880,88		456	523	0,523	0,5244	524,4	0,506943144	0,459048156	0,460448156	460,4481559	0,4598	459,8	0,067	0,0646	64,6	0,092846886
Missil	4	2	7	1	2	40	200	10	19:00	6	6	1	19:05:13	31,80	1,89	1886,79		466	530	0,53	0,529	529	0,507372552	0,465618748	0,464618748	464,6187479	0,4672	467,2	0,064	0,0618	61,8	0,093808483
Missil	4	2	7	1	2	40	200	10	20:00	7	7	1	20:02:03	40,50	1,48	1481,48		443	500	0,5	0,5082	508,2	0,477946976	0,465044324	0,473244324	473,2443244	0,4412	441,2	0,057	0,067	67	0,079855926
Missil	4	2	7	1	2	40	200	10	21:00	8	8	1	21:00:08	31,00	1,94	1935,48	421	456	527	0,527	0,52	520	0,510907549	0,459083751	0,452083751	452,083751	0,457	457	0,071	0,063	63	0,093394757
Missil	4	2	7	1	2	40	200	10	22:00	9	9	1	21:58:00	38,40	1,56	1562,50		438	490	0,49	0,498	498	0,48382892	0,44916238	0,45716238	457,16238	0,4384	438,4	0,052	0,0596	59,6	0,080364404
Missil	4	2	7	1	2	40	200	10	23:00	10	10	1	23:00:34	32,00	1,88	1875,00		465	532	0,532	0,5314	531,4	0,50651642	0,46847488	0,46787488	467,87488	0,467	467	0,067	0,0644	64,4	0,093939136
Missil	4	2	7	1	2	40	200	10	00:00	11	11	1	23:59:46	33,00	1,82	1818,18		453	518	0,518	0,5218	521,8	0,50239142	0,45859988	0,46239988	462,39988	0,4524	452,4	0,065	0,0694	69,4	0,090833721
Missil	4	2	7	1	2	40	200	10	01:00	12	12	1	00:59:53	29,20	2,05	2054,79	438	475	544	0,544	0,5438	543,8	0,519569502	0,467421798	0,467221798	467,2217978	0,4786	478,6	0,069	0,0652	65,2	0,100634705
Missil	4	2	7	1	2	40	200	10	02:00	13	13	1	02:00:15	30,30	1,98	1980,20	436	483	529	0,529	0,534	534	0,514153796	0,457837504	0,462837504	462,8375038	0,4828	482,8	0,046	0,0512	51,2	0,097010768
Missil	4	2	7	1	2	40	200	10	03:00	14	14	1	03:02:02	30,60	1,96	1960,78	446	483	547	0,547	0,5476	547,6	0,512744361	0,477246939	0,477846939	477,8469388	0,4842	484,2	0,064	0,0634	63,4	0,098992599
Missil	4	2	7	1	2	40	200	10	04:00	15	15	1	04:00:20	30,30	1,98	1980,20	451	490	550	0,55	0,5462	546,2	0,514153796	0,478837504	0,475037504	475,0375038	0,4926	492,6	0,06	0,0536	53,6	0,099227119
Missil	4	2	7	1	2	40	200	10	05:00	16	16	1	04:55:09	29,20	2,05	2054,79	470	520	557	0,557	0,565	565	0,519569502	0,480421798	0,488421798	488,4217978	0,514	514	0,037	0,051	51	0,104557941
Missil	4	2	7	1	2	40	200	10	06:00	17	17	1	06:00:31	28,70	2,09	2090,59	465	503	567	0,567	0,5608	560,8	0,522168423	0,487822877	0,481622877	481,6228765	0,5056	505,6	0,064	0,0552	55,2	0,104680806
Missil	4	2	7	1	2	40	200	10	07:00	18	18	1	07:01:14	37,70	1,59	1591,51		456	517	0,517	0,5206	520,6	0,485935187	0,474056113	0,477656113	477,6561134	0,4582	458,2	0,061	0,0624	62,4	0,084787824
Missil	4	2	7	1	2	40	200	10	08:00	19	19	1	07:59:21	37,50	1,60	1600,00		441	512	0,512	0,5096	509,6	0,48655142	0,46843988	0,46603988	466,03988	0,44	440	0,071	0,0696	69,6	0,083217332
Missil	4	2	7	1	2	40	200	10	09:00	20	20	1	09:01:06	28,90	2,08	2076,12	431	466	529	0,529	0,5226	522,6	0,521118064	0,450873236	0,444473236	444,4732364	0,4644	464,4	0,063	0,0582	58,2	0,097212136
Missil	4	2	7	1	2	40	200	10	10:00	21	21	1	10:03:03	38,50	1,56	1558,44		440	493	0,493	0,5	500	0,483534277	0,452457023	0,459457023	459,4570229	0,4438	443,8	0,053	0,0562	56,2	0,080582296
Missil	4	2	7	1	2	40	200	10	11:00	22	22	1	11:00:05	27,70	2,17	2166,06	441	477	518	0,518	0,5294	529,4	0,527647738	0,433343562	0,444743562	444,7435623	0,482	482	0,041	0,0474	47,4	0,100587509
Missil	4	2	7	1	2	40	200	10	12:00	23	23	1	12:00:54	33,70	1,78	1780,42		465	530	0,53	0,5194	519,4	0,49964958	0,47334172	0,46274172	462,7417198	0,4628	462,8	0,065	0,0566	56,6	0,089471969
Missil	4	2	7	1	2	40	200	10	13:00	24	24	1	13:00:16	27,40	2,19	2189,78	443	478	532	0,532	0,5348	534,8	0,529369522	0,445621778	0,448421778	448,4217778	0,4776	477,6	0,054	0,0572	57,2	0,102168288
Missil	4	2	7	2	2	40	200	10	14:00	1	1	1	13:55:49	41,70	1,44	1438,85		430	488	0,488	0,4946	494,6	0,474851852	0,456139448	0,462739448	462,7394483	0,4318	431,8	0,058	0,0628	62,8	0,076592472
Missil	4	2	7	2	2	40	200	10	15:00	2	2	1	14:56:06	40,40	1,49	1485,15		431	493	0,493	0,493	493	0,478213202	0,457778098	0,457778098	457,7780978	0,4296	429,6	0,062	0,0634	63,4	0,077563293
Missil	4	2	7	2	2	40	200	10	16:00	3	3	1	16:00:38	33,00	1,82	1818,18	414	448	502	0,502	0,502	502	0,50239142	0,44259988	0,44259988	442,59988	0,4504	450,4	0,054	0,0516	51,6	0,087386983
Missil	4	2	7	2	2	40	200	10	17:00	4	4	1	17:02:48	40,60	1,48	1477,83		433	518	0,518	0,4994	499,4	0,47768206	0,48330924	0,46470924	464,7092396	0,4268	426,8	0,085	0,0726	72,6	0,078376438
Missil	4	2	7	2	2	40	200	10	18:00	5	5	1	17:58:24	41,70	1,44	1438,85		436	518	0,518	0,5108	510,8	0,474851852	0,486139448	0,478939448	478,9394483	0,4356	435,6	0,082	0,0752	75,2	0,079101162

Horse	No	Stable	Age	Day	Gender	QTgain	QTfeed	HRfeed	Time	timex	tidxcopy	No	EKGtime	HR	RR	RRms	QTpeak1	Qtpeak2	QT	Qts	AvgQT	AvgQTms	StandardhorseRR>0,8021	QTc	AvgQTc	AvgQTcms	AvgQtpeak	AvgQtpeakms	Tptend	Tptendavg	TpTendavg(ms)	Bazett
Missil	4	2	7	2	2	40	200	10	19:00	6	6	1	19:01:04	34,40	1,74	1744,19		448	512	0,512	0,5078	507,8	0,497019327	0,457971973	0,453771973	453,771973	0,4492	449,2	0,064	0,0586	58,6	0,086579181
Missil	4	2	7	2	2	40	200	10	20:00	7	7	1	20:02:06	41,70	1,44	1438,85		431	498	0,498	0,4894	489,4	0,474851852	0,466139448	0,457539448	457,5394483	0,4306	430,6	0,067	0,0588	58,8	0,075787213
Missil	4	2	7	2	2	40	200	10	21:00	8	8	1	20:59:54	36,30	1,65	1652,89		446	490	0,49	0,5002	500,2	0,49039142	0,44259988	0,45279988	452,79988	0,4474	447,4	0,044	0,0528	52,8	0,083021462
Missil	4	2	7	2	2	40	200	10	22:00	9	9	1	21:59:19	37,00	1,62	1621,62		441	512	0,512	0,5068	506,8	0,48812115	0,46687015	0,46167015	461,6701503	0,4424	442,4	0,071	0,0644	64,4	0,083317407
Missil	4	2	7	2	2	40	200	10	23:00	10	10	1	23:02:12	36,60	1,64	1639,34	411	446	495	0,495	0,4966	496,6	0,489407813	0,448583487	0,450183487	450,1834866	0,4472	447,2	0,049	0,0494	49,4	0,082085448
Missil	4	2	7	2	2	40	200	10	00:00	11	11	1	00:04:39	34,20	1,75	1754,39		451	534	0,534	0,5192	519,2	0,497759841	0,479231459	0,464431459	464,4314589	0,4464	446,4	0,083	0,0728	72,8	0,088781327
Missil	4	2	7	2	2	40	200	10	01:00	12	12	1	01:02:51	31,00	1,94	1935,48	421	456	518	0,518	0,514	514	0,510907549	0,450083751	0,446083751	446,083751	0,4524	452,4	0,062	0,0616	61,6	0,092317125
Missil	4	2	7	2	2	40	200	10	02:00	13	13	1	02:00:41	32,70	1,83	1834,86	421	458	510	0,51	0,5118	511,8	0,503602429	0,449388871	0,451188871	451,1888708	0,4612	461,2	0,052	0,0506	50,6	0,089500694
Missil	4	2	7	2	2	40	200	10	03:00	14	14	1	02:59:33	33,50	1,79	1791,04		448	515	0,515	0,5168	516,8	0,500421271	0,457570029	0,459370029	459,3700293	0,4462	446,2	0,067	0,0706	70,6	0,08928944
Missil	4	2	7	2	2	40	200	10	04:00	15	15	1	03:59:14	29,80	2,01	2013,42	426	458	527	0,527	0,5318	531,8	0,516565917	0,453425383	0,458225383	458,2253834	0,464	464	0,069	0,0678	67,8	0,097418222
Missil	4	2	7	2	2	40	200	10	05:00	16	16	1	05:00:58	31,40	1,91	1910,83	426	465	535	0,535	0,531	531	0,509117535	0,468873765	0,464873765	464,8737654	0,4656	465,6	0,07	0,0654	65,4	0,094761014
Missil	4	2	7	2	2	40	200	10	06:00	17	17	1	05:56:16	32,00	1,88	1875,00	440	475	540	0,54	0,5328	532,8	0,50651642	0,47647488	0,46927488	469,27488	0,4734	473,4	0,065	0,0594	59,4	0,094186623
Missil	4	2	7	2	2	40	200	10	07:00	18	18	1	07:00:05	40,60	1,48	1477,83		431	490	0,49	0,4934	493,4	0,47768206	0,45530924	0,45870924	458,7092396	0,4312	431,2	0,059	0,0622	62,2	0,077434791
Missil	4	2	7	2	2	40	200	10	08:00	19	19	1	07:59:29	29,50	2,03	2033,90	428	463	527	0,527	0,523	523	0,518052437	0,451938863	0,447938863	447,9388631	0,464	464	0,064	0,059	59	0,096292105
Missil	4	2	7	2	2	40	200	10	09:00	20	20	1	09:00:14	30,50	1,97	1967,21		465	527	0,527	0,5322	532,2	0,513211092	0,456780208	0,461980208	461,9802079	0,4632	463,2	0,062	0,069	69	0,096366248
Missil	4	2	7	2	2	40	200	10	10:00	21	21	1	10:01:12	29,30	2,05	2047,78	441	477	532	0,532	0,5418	541,8	0,519060362	0,455930938	0,465730938	465,730938	0,477	477	0,055	0,0648	64,8	0,100093342
Missil	4	2	7	2	2	40	200	10	11:00	22	22	1	11:00:33	28,80	2,08	2083,33	443	477	540	0,54	0,5376	537,6	0,52164142	0,46134988	0,45894988	458,94988	0,4798	479,8	0,063	0,0578	57,8	0,100175845
Missil	4	2	7	2	2	40	200	10	12:00	23	23	1	11:59:40	29,10	2,06	2061,86	463	500	562	0,562	0,5484	548,4	0,520082142	0,484909158	0,471309158	471,3091584	0,4894	489,4	0,062	0,059	59	0,101660198
Missil	4	2	7	2	2	40	200	10	13:00	24	24	1	13:00:03	25,20	2,38	2380,95	461	502	550	0,55	0,5566	556,6	0,543248563	0,449742737	0,456342737	456,3427371	0,4968	496,8	0,048	0,0598	59,8	0,110877374
Missil	4	2	7	3	2	40	200	10	14:00	1	1	1	14:01:41	39,00	1,54	1538,46		453	520	0,52	0,5196	519,6	0,482083728	0,480907572	0,480507572	480,5075723	0,4572	457,2	0,067	0,0624	62,4	0,083202589
Missil	4	2	7	3	2	40	200	10	15:00	2	2	1	15:02:06	38,20	1,57	1570,68		445	505	0,505	0,499	499	0,484422834	0,463568466	0,457568466	457,5684664	0,4406	440,6	0,06	0,0584	58,4	0,080736304
Missil	4	2	7	3	2	40	200	10	16:00	3	3	1	15:59:47	32,60	1,84	1840,49	433	465	518	0,518	0,5258	525,8	0,504011052	0,456980248	0,464780248	464,7802481	0,4674	467,4	0,053	0,0584	58,4	0,092089853
Missil	4	2	7	3	2	40	200	10	17:00	4	4	1	17:00:24	29,90	2,01	2006,69	436	468	525	0,525	0,5196	519,6	0,516077039	0,451914261	0,446514261	446,5142613	0,4684	468,4	0,057	0,0512	51,2	0,095024053
Missil	4	2	7	3	2	40	200	10	18:00	5	5	1	18:00:15	29,90	2,01	2006,69	440	475	527	0,527	0,5312	531,2	0,516077039	0,453914261	0,458114261	458,1142613	0,4766	476,6	0,052	0,0546	54,6	0,097145452
Missil	4	2	7	3	2	40	200	10	19:00	6	6	1	18:58:52	29,80	2,01	2013,42	443	478	537	0,537	0,5326	532,6	0,516565917	0,463425383	0,459025383	459,0253834	0,4712	471,2	0,059	0,0614	61,4	0,097564771
Missil	4	2	7	3	2	40	200	10	20:00	7	7	1	20:01:07	40,10	1,50	1496,26		455	515	0,515	0,5168	516,8	0,479019849	0,478971451	0,480771451	480,7714511	0,453	453	0,06	0,0638	63,8	0,081611304
Missil	4	2	7	3	2	40	200	10	21:00	8	8	1	20:59:44	39,80	1,51	1507,54		443	512	0,512	0,5114	511,4	0,479838656	0,475152644	0,474552644	474,5526438	0,4434	443,4	0,069	0,068	68	0,08106235
Missil	4	2	7	3	2	40	200	10	22:00	9	9	1	22:01:06	30,40	1,97	1973,68	424	458	503	0,503	0,5094	509,4	0,513680894	0,432310406	0,438710406	438,7104063	0,4588	458,8	0,045	0,0506	50,6	0,0923894
Missil	4	2	7	3	2	40	200	10	23:00	10	10	1	23:00:23	29,70	2,02	2020,20	430	466	527	0,527	0,533	533	0,517058087	0,452933213	0,458933213	458,9332133	0,4688	468,8	0,061	0,0642	64,2	0,097802281
Missil	4	2	7	3	2	40	200	10	00:00	11	11	1	00:00:29	29,30	2,05	2047,78	451	483	534	0,534	0,5346	534,6	0,519060362	0,457930938	0,458530938	458,530938	0,4814	481,4	0,051	0,0532	53,2	0,098763198
Missil	4	2	7	3	2	40	200	10	01:00	12	12	1	01:01:13	28,90	2,08	2076,12	438	475	523	0,523	0,5236	523,6	0,521118064	0,444873236	0,445473236	445,4732364	0,4758	475,8	0,048	0,0478	47,8	0,097398152
Missil	4	2	7	3	2	40	200	10	02:00	13	13	1	02:00:59	30,90	1,94	1941,75	430	470	523	0,523	0,5316	531,6	0,511362294	0,454629006	0,463229006	463,2290062	0,4754	475,4	0,053	0,0562	56,2	0,095632549
Missil	4	2	7	3	2	40	200	10	03:00	14	14	1	03:00:14	28,70	2,09	2090,59	440	471	523	0,523	0,523	523	0,522168423	0,443822877	0,443822877	443,8228765	0,4716	471,6	0,052	0,0514	51,4	0,097624931
Missil	4	2	7	3	2	40	200	10	04:00	15	15	1	04:00:58	29,50	2,03	2033,90	460	500	554	0,554	0,5586	558,6	0,518052437	0,478938863	0,483538863	483,5388631	0,5056	505,6	0,054	0,053	53	0,102846596
Missil	4	2	7	3	2	40	200	10	05:00	16	16	1	04:59:38	30,90	1,94	1941,75	471	510	560	0,56	0,5534	553,4	0,511362294	0,491629006	0,485029006	485,0290062	0,5102	510,2	0,05	0,0432	43,2	0,099554275
Missil	4	2	7	3	2	40	200	10	06:00	17	17	1	05:59:39	31,40	1,91	1910,83	470	507	562	0,562	0,5604	560,4	0,509117535	0,495873765	0,494273765	494,2737654	0,5066	506,6	0,055	0,0538	53,8	0,100007668
Missil	4	2	7	3	2	40	200	10	07:00	18	18	1	07:02:38	35,90	1,67	1671,31	445	485	554	0,554	0,5388	538,8	0,491728467	0,505262833	0,490062833	490,0628326	0,4818	481,8	0,069	0,057	57	0,089924983
Missil	4	2	7	3	2	40	200	10	08:00	19	19	1	08:00:32	40,70	1,47	1474,20		440	493	0,493	0,5	500	0,477418447	0,458572853	0,465572853	465,572853	0,4408	440,8	0,053	0,0592	59,2	0,078374142
Missil	4	2	7	3	2	40	200	10	09:00	20	20	1	09:03:13	27,80	2,16	2158,27	436	471	525	0,525	0,528	528	0,527082067	0,440909233	0,443909233	443,9092325	0,4726	472,6	0,054	0,0554	55,4	0,100140908
Missil	4	2	7	3	2	40	200	10	10:00	21	21	1	10:01:09	39,70	1,51	1511,34		445	503	0,503	0,5044	504,4	0,480114342	0,465876958	0,467276958	467,2769581	0,447	447	0,058	0,0574	57,4	0,080053408
Missil	4	2	7	3	2	40	200	10	11:00	22	22	1	11:00:16	27,30	2,20	2197,80	451	490	532	0,532	0,5336	533,6	0,52995186	0,44503944	0,44663944	446,6394404	0,4904	490,4	0,042	0,0432	43,2	0,102125571
Missil	4	2	7	3	2	40	200	10	12:00	23	23	1	11:59:23	27,50	2,18	2181,82	446	482	535	0,535	0,5326	532,6	0,52879142	0,44919988	0,44679988	446,79988	0,4846	484,6	0,053	0,048	48	0,101562835
Missil	4	2	7	3	2	40	200	10	13:00	24	24	1	12:59:24	26,00	2,31	2307,69	448	487	527	0,527	0,5412	541,2	0,537929882	0,432061418	0,446261418	446,2614185	0,488	488	0,04	0,0532	53,2	0,106138052
Mustang	5	2	7	1	2	40	200	10	14:00	1	1	1	14:00:12	44,50	1,35	1348,31	401	441	485	0,485	0,4926	492,6	0,46827906	0,45971224	0,46731224	467,3122396	0,4418	441,8	0,044	0,0508	50,8	0,073843862
Mustang	5	2	7	1	2	40	200	10	15:00	2	2	1	14:59:05	41,70	1,44	1438,85	388	435	485	0,485	0,484	484	0,474851852	0,453139448	0,452139448	452,1394483	0,4376	437,6	0,05	0,0464	46,4	0,074950983
Mustang	5	2	7	1	2	40	200	10	16:00	3	3	1	15:59:56	43,80	1,37	1369,86	389	428	478	0,478	0,4802	480,2	0,469843475	0,451147825	0,453347825	453,3478252	0,4262	426,2	0,05	0,054	54	0,072557966
Mustang	5	2	7	1	2	40	200	10	17:00	4	4	1	17:01:05	42,00	1,43	1428,57	386	428	493	0,493	0,4812	481,2	0,474105706	0,461885594	0,450085594	450,0855943	0,4266	426,6	0,065	0,0546	54,6	0,074250772
Mustang	5	2	7	1	2	40	200	10	18:00	5	5	1	18:00:37	32,50	1,85	1846,15	413	456	500	0,5	0,499	499	0,504422189	0,438569111	0,437569111	437,5691108	0,4566	456,6	0,044	0,0424	42,4	0,08753039
Mustang	5	2	7	1	2	40	200	10	19:00	6	6	1	19:04:28	35,50	1,69	1690,14	408	445	487	0,487	0,4972	497,2	0,493095645	0,436895655	0,447095655	447,0956546	0,449	449	0,042	0,0482	48,2	0,083448194
Mustang	5	2	7	1	2	40	200	10	20:00	7	7	1	20:02:52	42,50	1,41	1411,76	388	424	482	0,482	0,4824	482,4	0,472885538	0,452105762	0,452505762	452,5057624	0,4276	427,6	0,058	0,0548	54,8	0,073996782
Mustang	5	2	7	1	2	40	200	10	21:00	8	8	1	21:01:34	44,90	1,34	1336,30		424	487	0,487	0,4752	475,2	0,46740701	0,46258429	0,45078429	450,7842898	0,4228	422,8	0,063	0,0524	52,4	0,070917475
Mustang	5	2	7	1	2	40	200	10	22:00	9	9	1	21:55:29	37,00	1,62	1621,62	388	426	490	0,49	0,4768	476,8	0,48812115	0,44487015	0,43167015	431,6701503	0,4258	425,8	0,064	0,051	51	0,078385437
Mustang	5	2	7	1	2	40	200	10	23:00	10	10	1	23:01:05	33,30	1,80	1801,80	404	440	483	0,483	0,4874	487,4	0,501202231	0,424789069	0,429189069	429,1890692	0,4428	442,8	0,043	0,0446	44,6	0,084462398
Mustang	5	2	7	1	2	40	200	10	00:00	11	11	1	00:04:44	38,10	1,57	1574,80	394	431	477	0,477	0,4802	480,2	0,484722129	0,435269171	0,438469171	438,4691713	0,4268	426,8	0,046	0,0534	53,4	0,07779643
Mustang	5	2	7	1	2	40	200	10	01:00	12	12	1	01:01:02	32,20	1,86	1863,35	406	448	493	0,493	0,503	503	0,505670923	0,430320377	0,440320377	440,3203769	0,4568	456,8	0,045	0,0462	46,2	0,088642103
Mustang	5	2	7	1	2	40	200	10	02:00	13	13	1	01:58:28	43,50	1,38	1379,31		419	471	0,471	0,4724	472,4	0,470529351	0,443461949	0,444861949	444,861949	0,4222	422,2	0,052	0,0502	50,2	0,071625103
Mustang	5	2	7	1	2	40	200	10	03:00	14	14	1	02:57:19	33,80	1,78	1775,15	411	456	495	0,495	0,4944	494,4	0,49926716	0,43872414	0,43812414	438,1241404	0,4556	455,6	0,039	0,0388	38,8	0,085039385
Mustang	5	2	7	1	2	40	200	10	04:00	15	15	1	03:56:44	31,70	1,89	1892,74	418	458	510	0,51	0,5058	505,8	0,507804669	0,445186631	0,440986631	440,9866308	0,4588	458,8	0,052	0,047	47	0,089835749
Mustang	5	2	7	1	2	40	200	10	07:00	18	18	1	07:03:50	39,00	1,54	1538,46	391	436	487	0,487	0,4914	491,4	0,482083728	0,447907572	0,452307572	452,3075723	0,4424	442,4	0,051	0,049	49	0,078686975
Mustang	5	2	7	1	2	40	200	10	08:00	19	19	1	08:00:53	41,40	1,45	1449,28		430	482	0,482	0,484	484	0,475608811	0,449382489	0,451382489	451,3824887	0,4328	432,8	0,052	0,0512	51,2	0,075222055
Mustang	5	2	7	1	2	40	200	10	09:00	20	20	1	09:00:35	30,90	1,94	1941,75	411	451	492	0,492	0,495	495	0,511362294	0,423629006	0,426629006	426,6290062	0,4496	449,6	0,041	0,0454	45,4	0,089048367
Mustang	5	2	7	1	2	40	200	10	10:00	21	21	1	10:00:25	37,30	1,61	1608,58	404	441	495	0,495	0,488	488	0,487174262	0,450817038	0,443817038	443,8170382	0,44	440	0,054	0,048	48	0,079903427
Mustang	5	2	7	1	2	40	200	10	11:00	22	22	1	11:01:11	31,80	1,89	1886,79	416	458	500	0,5	0,5002	500,2	0,507372552	0,435618748	0,435818748	435,8187479	0,4568	456,8	0,042	0,0434	43,4	0,088701329
Mustang	5	2	7	1	2	40	200	10	12:00	23	23	1	11:58:58	35,80	1,68	1675,98	399	436	480	0,48	0,4936	493,6	0,492067398	0,430923902	0,444523902	444,5239023	0,4394	439,4	0,044	0,0542	54,2	0,082496142
Mustang	5	2	7	1	2	40	200	10	13:00	24	24	1	13:02:03	32,90	1,82	1823,71	413	456	508	0,508	0,505	505	0,502792636	0,448198664	0,445198664	445,1986642	0,4576	457,6	0,052	0,0474	47,4	0,088042716
Mustang	5	2	7	2	2	40	200	10	14:00	1	1	1	13:59:32	40,80	1,47	1470,59	406	445	488	0,488	0,496	496	0,477156126	0,453835174	0,461835174	461,8351741	0,442	442	0,043	0,054	54	0,077651812
Mustang	5	2	7	2	2	40	200	10	15:00	2	2	1	15:00:20	35,50	1,69	1690,14	416	458	507	0,507	0,5068	506,8	0,493095645	0,456895655	0,456695655	456,6956546	0,459	459	0,049	0,0478	47,8	0,085059422
Mustang	5	2	7	2	2	40	200	10	16:00	3	3	1	16:00:46	34,10	1,76	1759,53	414	458	500	0,5	0,503	503	0,498133355	0,444857945	0,447857945	447,8579445	0,4598	459,8	0,042	0,0432	43,2	0,086137209
Mustang	5	2	7	2	2	40	200	10	17:00	4	4	1	17:00:33	31,90	1,88	1880,88	419	461	497	0,497	0,5004	500,4	0,506943144	0,433048156	0,436448156	436,4481559	0,4614	461,4	0,036	0,039	39	0,0885976
Mustang	5	2	7	2	2	40	200	10	18:00	5	5	1	18:00:25	32,20	1,86	1863,35	421	460	518	0,518	0,5082	508,2	0,505670923	0,455320377	0,445520377	445,5203769	0,4616	461,6	0,058	0,0466	46,6	0,089558482
Mustang	5	2	7	2	2	40	200	10	19:00	6	6	1	18:59:26	34,10	1,76	1759,53	421	461	513	0,513	0,5068	506,8	0,498133355	0,457857945	0,451657945	451,6579445	0,4616	461,6	0,052	0,0452	45,2	0,086787947
Mustang	5	2	7	2	2	40	200	10	20:00	7	7	1	19:59:42	40,90	1,47	1466,99	398	440	495	0,495	0,4856	485,6	0,476895087	0,461096213	0,451696213	451,6962125	0,4352	435,2	0,055	0,0504	50,4	0,075930634
Mustang	5	2	7	2	2	40	200	10	21:00	8	8	1	21:00:33	32,90	1,82	1823,71	406	443	492	0,492	0,4922	492,2	0,502792636	0,432198664	0,432398664	432,3986642	0,4438	443,8	0,049	0,0484	48,4	0,085811138
Mustang	5	2	7	2	2	40	200	10	22:00	9	9	1	21:57:46	42,50	1,41	1411,76		426	487	0,487	0,4858	485,8	0,472885538	0,457105762	0,455905762	455,9057624	0,425	425	0,061	0,0608	60,8	0,074518318
Mustang	5	2	7	2	2	40	200	10	23:00	10	10	1	22:59:42	35,90	1,67	1671,31	398	435	480	0,48	0,4804	480,4	0,491728467	0,431262833	0,431662833	431,6628326	0,4342	434,2	0,045	0,0462	46,2	0,080178103
Mustang	5	2	7	2	2	40	200	10	00:00	11	11	1	00:00:22	32,40	1,85	1851,85	416	456	507	0,507	0,503	503	0,504835864	0,445155436	0,441155436	441,1554356	0,4526	452,6	0,051	0,0504	50,4	0,088368092
Mustang	5	2	7	2	2	40	200	10	01:00	12	12	1	00:58:50	36,80	1,63	1630,43	406	446	500	0,5	0,4978	497,8	0,488760985	0,454230315	0,452030315	452,0303148	0,4466	446,6	0,054	0,0512	51,2	0,0820599
Mustang	5	2	7	2	2	40	200	10	02:00	13	13	1	01:59:22	32,50	1,85	1846,15	399	446	478	0,478	0,4854	485,4	0,504422189	0,416569111	0,423969111	423,9691108	0,447	447	0,032	0,0384	38,4	0,085144793
Mustang	5	2	7	2	2	40	200	10	03:00	14	14	1	03:00:24	37,60	1,60	1595,74	403	450	505	0,505	0,5022	502,2	0,486242484	0,461748816	0,458948816	458,9488162	0,4504	450,4	0,055	0,0518	51,8	0,08189979
Mustang	5	2	7	2	2	40	200	10	04:00	15	15	1	04:00:15	30,40	1,97	1973,68	416	460	507	0,507	0,5124	512,4	0,513680894	0,436310406	0,441710406	441,7104063	0,4614	461,4	0,047	0,051	51	0,092933508

Horse	No	Stable	Age	Day	Gender	QTgain	QTfeed	HRfeed	Time	timex	tidxcopy	No	EKGtime	HR	RR	RRms	QTpeak1	Qtpeak2	QT	Qts	AvgQT	AvgQTms	StandardhorseRR>0,8021	QTc	AvgQTc	AvgQTcms	AvgQtpeak	AvgQtpeakms	Tptend	Tptendavg	TpTendavg(ms)	Bazett
Mustang	5	2	7	2	2	40	200	10	05:00	16	16	1	05:01:55	30,50	1,97	1967,21	419	458	503	0,503	0,5138	513,8	0,513211092	0,432780208	0,443580208	443,5802079	0,464	464	0,045	0,0498	49,8	0,093034533
Mustang	5	2	7	2	2	40	200	10	06:00	17	17	1	05:57:41	31,60	1,90	1898,73	430	470	520	0,52	0,5228	522,8	0,508239521	0,454751779	0,457551779	457,5517787	0,47	470	0,05	0,0528	52,8	0,093001946
Mustang	5	2	7	2	2	40	200	10	07:00	18	18	1	07:01:07	39,60	1,52	1515,15		431	495	0,495	0,4916	491,6	0,48039142	0,45759988	0,45419988	454,19988	0,4316	431,6	0,064	0,06	60	0,078120368
Mustang	5	2	7	2	2	40	200	10	08:00	19	19	1	08:00:27	30,90	1,94	1941,75	409	451	495	0,495	0,4962	496,2	0,511362294	0,426629006	0,427829006	427,8290062	0,4508	450,8	0,044	0,0454	45,4	0,089264242
Mustang	5	2	7	2	2	40	200	10	09:00	20	20	1	08:59:52	28,70	2,09	2090,59	426	463	513	0,513	0,5102	510,2	0,522168423	0,433822877	0,431022877	431,0228765	0,4616	461,6	0,05	0,0486	48,6	0,09523564
Mustang	5	2	7	2	2	40	200	10	10:00	21	21	1	10:01:58	34,30	1,75	1749,27	414	460	510	0,51	0,509	509	0,497388505	0,455602795	0,454602795	454,6027955	0,454	454	0,05	0,055	55	0,086910195
Mustang	5	2	7	2	2	40	200	10	11:00	22	22	1	11:04:08	29,70	2,02	2020,20	418	463	503	0,503	0,5026	502,6	0,517058087	0,428933213	0,428533213	428,5332133	0,458	458	0,04	0,0446	44,6	0,092224065
Mustang	5	2	7	2	2	40	200	10	12:00	23	23	1	11:59:16	30,20	1,99	1986,75	419	461	508	0,508	0,5056	505,6	0,514629831	0,436361469	0,433961469	433,9614694	0,4584	458,4	0,047	0,0472	47,2	0,09200334
Mustang	5	2	7	2	2	40	200	10	13:00	24	24	1	13:02:57	29,70	2,02	2020,20	414	455	497	0,497	0,5022	502,2	0,517058087	0,422933213	0,428133213	428,1332133	0,4578	457,8	0,042	0,0444	44,4	0,092150667
Mustang	5	2	7	3	2	40	200	10	14:00	1	1	1	14:03:25	41,40	1,45	1449,28	403	441	488	0,488	0,4926	492,6	0,475608811	0,455382489	0,459982489	459,9824887	0,4398	439,8	0,047	0,0528	52,8	0,076558645
Mustang	5	2	7	3	2	40	200	10	15:00	2	2	1	15:04:38	36,90	1,63	1626,02	379	426	477	0,477	0,4778	477,8	0,4884402	0,4315511	0,4323511	432,3510995	0,4244	424,4	0,051	0,0534	53,4	0,0786562
Mustang	5	2	7	3	2	40	200	10	16:00	3	3	1	15:58:38	32,00	1,88	1875,00	406	451	488	0,488	0,4852	485,2	0,50651642	0,42447488	0,42167488	421,67488	0,4492	449,2	0,037	0,036	36	0,085772053
Mustang	5	2	7	3	2	40	200	10	17:00	4	4	1	17:02:28	36,30	1,65	1652,89	411	448	508	0,508	0,5008	500,8	0,49039142	0,46059988	0,45339988	453,39988	0,4466	446,6	0,06	0,0542	54,2	0,083121048
Mustang	5	2	7	3	2	40	200	10	18:00	5	5	1	17:59:37	33,10	1,81	1812,69	416	455	508	0,508	0,5058	505,8	0,501992628	0,448998672	0,446798672	446,7986715	0,455	455	0,053	0,0508	50,8	0,087915374
Mustang	5	2	7	3	2	40	200	10	19:00	6	6	1	18:59:31	35,80	1,68	1675,98	406	441	480	0,48	0,4884	488,4	0,492067398	0,430923902	0,433923902	439,3239023	0,441	441	0,039	0,0474	47,4	0,081627058
Mustang	5	2	7	3	2	40	200	10	20:00	7	7	1	20:00:10	39,60	1,52	1515,15	401	440	483	0,483	0,4826	482,6	0,48039142	0,44559988	0,44519988	445,19988	0,4368	436,8	0,043	0,0458	45,8	0,076690174
Mustang	5	2	7	3	2	40	200	10	21:00	8	8	1	21:00:17	34,80	1,72	1724,14	383	426	473	0,473	0,4746	474,6	0,495563834	0,420427466	0,422027466	422,0274662	0,4272	427,2	0,047	0,0474	47,4	0,080452235
Mustang	5	2	7	3	2	40	200	10	22:00	9	9	1	22:03:11	41,60	1,44	1442,31	391	424	478	0,478	0,4778	477,8	0,475102958	0,445888342	0,445688342	445,6883415	0,429	429	0,054	0,0488	48,8	0,074079745
Mustang	5	2	7	3	2	40	200	10	23:00	10	10	1	23:00:16	33,30	1,80	1801,80	418	453	510	0,51	0,4996	499,6	0,501202231	0,451789069	0,441389069	441,3890692	0,455	455	0,057	0,0446	44,6	0,086576557
Mustang	5	2	7	3	2	40	200	10	00:00	11	11	1	00:02:29	37,70	1,59	1591,51	404	450	502	0,502	0,4994	499,4	0,485935187	0,459056113	0,456456113	456,4561134	0,4488	448,8	0,052	0,0506	50,6	0,081335073
Mustang	5	2	7	3	2	40	200	10	01:00	12	12	1	01:01:15	31,60	1,90	1898,73	416	453	503	0,503	0,5018	501,8	0,508239521	0,437751779	0,436551779	436,5517787	0,4574	457,4	0,05	0,0444	44,4	0,089266214
Mustang	5	2	7	3	2	40	200	10	02:00	13	13	1	02:00:47	32,80	1,83	1829,27	411	456	498	0,498	0,4922	492,2	0,503196298	0,437795002	0,431995002	431,995002	0,4606	460,6	0,042	0,0316	31,6	0,085941848
Mustang	5	2	7	3	2	40	200	10	03:00	14	14	1	03:00:26	37,90	1,58	1583,11	421	460	503	0,503	0,511	511	0,485325457	0,460665843	0,468665843	468,6658431	0,4578	457,8	0,043	0,0532	53,2	0,083004435
Mustang	5	2	7	3	2	40	200	10	04:00	15	15	1	04:01:46	30,10	1,99	1993,36	421	475	507	0,507	0,5134	513,4	0,515109028	0,434882272	0,441282272	441,282272	0,4764	476,4	0,032	0,037	37	0,093577754
Mustang	5	2	7	3	2	40	200	10	05:00	16	16	1	05:00:02	31,60	1,90	1898,73	419	465	498	0,498	0,5018	501,8	0,508239521	0,432751779	0,436551779	436,5517787	0,4684	468,4	0,033	0,0334	33,4	0,089266214
Mustang	5	2	7	3	2	40	200	10	06:00	17	17	1	06:02:17	29,90	2,01	2006,69	426	468	520	0,52	0,515	515	0,516077039	0,446914261	0,441914261	441,9142613	0,473	473	0,052	0,042	42	0,094182808
Mustang	5	2	7	3	2	40	200	10	07:00	18	18	1	06:59:31	30,30	1,98	1980,20	419	466	495	0,495	0,5062	506,2	0,514153796	0,423837504	0,435037504	435,0375038	0,469	469	0,029	0,0372	37,2	0,091960395
Mustang	5	2	7	3	2	40	200	10	08:00	19	19	1	08:00:14	41,90	1,43	1431,98	378	413	466	0,466	0,4746	474,6	0,474353234	0,434638066	0,443238066	443,2380662	0,4234	423,4	0,053	0,0512	51,2	0,073319707
Mustang	5	2	7	3	2	40	200	10	09:00	20	20	1	09:02:10	41,30	1,45	1452,78	394	433	485	0,485	0,4858	485,8	0,475863575	0,452127725	0,452927725	452,927725	0,4294	429,4	0,052	0,0564	56,4	0,075593157
Mustang	5	2	7	3	2	40	200	10	10:00	21	21	1	10:00:13	33,50	1,79	1791,04	406	446	500	0,5	0,5058	505,8	0,500421271	0,442570029	0,448370029	448,3700293	0,4478	447,8	0,054	0,058	58	0,08738893
Mustang	5	2	7	3	2	40	200	10	11:00	22	22	1	11:02:25	41,60	1,44	1442,31		438	488	0,488	0,485	485	0,475102958	0,455888342	0,452888342	452,8883415	0,4362	436,2	0,05	0,0488	48,8	0,075196058
Mustang	5	2	7	3	2	40	200	10	12:00	23	23	1	12:00:50	37,60	1,60	1595,74	393	430	483	0,483	0,4862	486,2	0,486242484	0,439748816	0,442948816	442,9488162	0,4358	435,8	0,053	0,0504	50,4	0,079290477
Mustang	5	2	7	3	2	40	200	10	13:00	24	24	1	13:00:53	29,20	2,05	2054,79	411	450	498	0,498	0,5026	502,6	0,519569502	0,421421798	0,426021798	426,0217978	0,4518	451,8	0,048	0,0508	50,8	0,093010303
Lotus	6	2	8	1	2	40	200	10	14:00	1	1	1	14:00:42	36,00	1,67	1666,67	413	456	535	0,535	0,5234	523,4	0,49139142	0,48659988	0,47499988	474,99988	0,454	454	0,079	0,0694	69,4	0,087233333
Lotus	6	2	8	1	2	40	200	10	15:00	2	2	1	15:01:33	35,30	1,70	1699,72	384	424	490	0,49	0,4936	493,6	0,493790853	0,439200447	0,442800447	442,8004466	0,4272	427,2	0,066	0,0664	66,4	0,083078338
Lotus	6	2	8	1	2	40	200	10	16:00	3	3	1	16:01:54	31,50	1,90	1904,76	401	436	500	0,5	0,499	499	0,508677134	0,434314166	0,433314166	433,3141657	0,4376	437,6	0,064	0,0614	61,4	0,088908906
Lotus	6	2	8	1	2	40	200	10	17:00	4	4	1	17:00:30	31,10	1,93	1929,26	406	443	497	0,497	0,4992	499,2	0,510455729	0,429535571	0,431735571	431,7355713	0,4452	445,2	0,054	0,054	54	0,089514704
Lotus	6	2	8	1	2	40	200	10	18:00	5	5	1	18:00:54	28,60	2,10	2097,90	409	451	520	0,52	0,5158	515,8	0,522699112	0,440292188	0,436092188	436,0921877	0,4534	453,4	0,069	0,0624	62,4	0,096449131
Lotus	6	2	8	1	2	40	200	10	19:00	6	6	1	18:58:34	34,20	1,75	1754,39	404	448	505	0,505	0,4994	499,4	0,497759841	0,450231459	0,444631459	444,6314589	0,4462	446,2	0,057	0,0532	53,2	0,085395598
Lotus	6	2	8	1	2	40	200	10	20:00	7	7	1	20:01:23	35,50	1,69	1690,14		431	498	0,498	0,4956	495,6	0,493095645	0,447895655	0,445495655	445,4956546	0,4298	429,8	0,067	0,0658	65,8	0,083179656
Lotus	6	2	8	1	2	40	200	10	21:00	8	8	1	21:02:10	33,70	1,78	1780,42		423	492	0,492	0,4894	489,4	0,49964958	0,43534172	0,43274172	432,7417198	0,4226	422,6	0,069	0,0668	66,8	0,084304162
Lotus	6	2	8	1	2	40	200	10	22:00	9	9	1	22:01:38	34,00	1,76	1764,71		433	495	0,495	0,4954	495,4	0,498509067	0,439482233	0,439882233	439,8822329	0,4344	434,4	0,062	0,061	61	0,084960399
Lotus	6	2	8	1	2	40	200	10	23:00	10	10	1	22:59:34	27,20	2,21	2205,88	411	451	522	0,522	0,503	503	0,530538479	0,434452821	0,415452821	415,4528212	0,4428	442,8	0,071	0,0602	60,2	0,096445847
Lotus	6	2	8	1	2	40	200	10	00:00	11	11	1	00:04:07	31,10	1,93	1929,26		448	513	0,513	0,514	514	0,510455729	0,445535571	0,446535571	446,5355713	0,448	448	0,065	0,066	66	0,092168586
Lotus	6	2	8	1	2	40	200	10	01:00	12	12	1	01:02:01	26,50	2,26	2264,15	413	455	505	0,505	0,5126	512,6	0,534768778	0,413222522	0,420822522	420,8225215	0,4574	457,4	0,05	0,0552	55,2	0,099576227
Lotus	6	2	8	1	2	40	200	10	02:00	13	13	1	02:00:18	31,20	1,92	1923,08	404	451	515	0,515	0,517	517	0,510006805	0,447984495	0,449984495	449,9844954	0,4504	450,4	0,064	0,0666	66,6	0,092557847
Lotus	6	2	8	1	2	40	200	10	03:00	14	14	1	03:01:10	26,00	2,31	2307,69	421	466	525	0,525	0,5288	528,8	0,537929882	0,430061418	0,433861418	433,8614185	0,4668	466,8	0,059	0,062	62	0,103706212
Lotus	6	2	8	1	2	40	200	10	04:00	15	15	1	04:03:49	24,20	2,48	2479,34	421	468	523	0,523	0,5202	520,2	0,55039142	0,41559988	0,41279988	412,79988	0,469	469	0,055	0,0512	51,2	0,105745687
Lotus	6	2	8	1	2	40	200	10	05:00	16	16	1	05:02:58	23,90	2,51	2510,46	423	466	525	0,525	0,528	528	0,552650834	0,415340466	0,418340466	418,3404658	0,4664	466,4	0,059	0,0616	61,6	0,108002789
Lotus	6	2	8	1	2	40	200	10	07:00	18	18	1	07:01:04	34,70	1,73	1729,11	398	438	497	0,497	0,4996	499,6	0,495924561	0,444066739	0,446666739	446,6667388	0,4406	440,6	0,059	0,059	59	0,084812076
Lotus	6	2	8	1	2	40	200	10	08:00	19	19	1	08:01:23	34,00	1,76	1764,71		423	490	0,49	0,4888	488,8	0,498509067	0,434482233	0,433282233	433,2822329	0,4232	423,2	0,067	0,0656	65,6	0,083828508
Lotus	6	2	8	1	2	40	200	10	09:00	20	20	1	08:58:00	29,00	2,07	2068,97	411	451	513	0,513	0,5068	506,8	0,520598317	0,435392983	0,429192983	429,1929834	0,4464	446,4	0,062	0,0604	60,4	0,094110397
Lotus	6	2	8	1	2	40	200	10	10:00	21	21	1	10:00:14	34,30	1,75	1749,27		430	488	0,488	0,4954	495,4	0,497388505	0,433602795	0,441002795	441,0027955	0,4344	434,4	0,058	0,061	61	0,084588036
Lotus	6	2	8	1	2	40	200	10	11:00	22	22	1	11:00:48	28,70	2,09	2090,59		445	517	0,517	0,512	512	0,522168423	0,437822877	0,432822877	432,8228765	0,4438	443,8	0,072	0,0682	68,2	0,095571634
Lotus	6	2	8	1	2	40	200	10	12:00	23	23	1	12:02:25	27,30	2,20	2197,80	403	446	505	0,505	0,506	506	0,52995186	0,41803944	0,41903944	419,0394404	0,4452	445,2	0,059	0,0608	60,8	0,096843214
Lotus	6	2	8	1	2	40	200	10	13:00	24	24	1	13:02:44	26,80	2,24	2238,81	409	451	517	0,517	0,5168	516,8	0,532928733	0,427062567	0,426862567	426,8625666	0,454	454	0,066	0,0628	62,8	0,099828629
Lotus	6	2	8	2	2	40	200	10	14:00	1	1	1	14:04:11	37,30	1,61	1608,58	389	426	488	0,488	0,49	490	0,487174262	0,443817038	0,445817038	445,8170382	0,428	428	0,062	0,062	62	0,0802309
Lotus	6	2	8	2	2	40	200	10	15:00	2	2	1	14:57:21	35,30	1,70	1699,72	393	431	490	0,49	0,4934	493,4	0,493790853	0,439200447	0,442600447	442,6004466	0,4306	430,6	0,059	0,0628	62,8	0,083044676
Lotus	6	2	8	2	2	40	200	10	16:00	3	3	1	16:00:33	32,00	1,88	1875,00	399	440	502	0,502	0,5	500	0,50651642	0,43847488	0,43647488	436,47488	0,4412	441,2	0,062	0,0588	58,8	0,088388348
Lotus	6	2	8	2	2	40	200	10	17:00	4	4	1	16:58:52	32,20	1,86	1863,35	396	438	498	0,498	0,4972	497,2	0,505670923	0,435320377	0,434520377	434,5203769	0,4372	437,2	0,06	0,06	60	0,087619987
Lotus	6	2	8	2	2	40	200	10	18:00	5	5	1	18:01:52	30,40	1,97	1973,68	409	445	510	0,51	0,5082	508,2	0,513680894	0,439310406	0,437510406	437,5104063	0,4466	446,6	0,065	0,0616	61,6	0,092171758
Lotus	6	2	8	2	2	40	200	10	19:00	6	6	1	19:00:37	28,20	2,13	2127,66	403	446	497	0,497	0,5078	507,8	0,524859505	0,415131795	0,425931795	425,9317949	0,449	449	0,051	0,0588	58,8	0,095624272
Lotus	6	2	8	2	2	40	200	10	20:00	7	7	1	20:02:29	36,40	1,65	1648,35		426	502	0,502	0,4978	497,8	0,49006175	0,45492955	0,45072955	450,7295503	0,4254	425,4	0,076	0,0724	72,4	0,082509547
Lotus	6	2	8	2	2	40	200	10	21:00	8	8	1	21:01:29	31,80	1,89	1886,79	386	423	490	0,49	0,4882	488,2	0,507372552	0,425618748	0,423818748	423,8187479	0,4232	423,2	0,067	0,065	65	0,086573348
Lotus	6	2	8	2	2	40	200	10	22:00	9	9	1	22:01:31	29,80	2,01	2013,42	389	428	485	0,485	0,489	489	0,516565917	0,411425383	0,415425383	415,4253834	0,429	429	0,057	0,06	60	0,089577869
Lotus	6	2	8	2	2	40	200	10	23:00	10	10	1	23:00:08	31,40	1,91	1910,83	396	433	493	0,493	0,4896	489,6	0,509117535	0,426873765	0,423473765	423,4737654	0,4328	432,8	0,06	0,0568	56,8	0,087372867
Lotus	6	2	8	2	2	40	200	10	00:00	11	11	1	00:03:20	32,60	1,84	1840,49	388	431	492	0,492	0,498	498	0,504011052	0,430980248	0,436980248	436,9802481	0,4352	435,2	0,061	0,0628	62,8	0,087220896
Lotus	6	2	8	2	2	40	200	10	01:00	12	12	1	01:01:06	28,50	2,11	2105,26	406	451	515	0,515	0,5094	509,4	0,523233525	0,434757775	0,429157775	429,1577747	0,453	453	0,064	0,0564	56,4	0,095419362
Lotus	6	2	8	2	2	40	200	10	02:00	13	13	1	02:00:41	28,90	2,08	2076,12	401	448	500	0,5	0,508	508	0,521118064	0,421873236	0,429873236	429,8732364	0,449	449	0,052	0,059	59	0,094496297
Lotus	6	2	8	2	2	40	200	10	03:00	14	14	1	03:00:54	29,10	2,06	2061,86	406	451	497	0,497	0,502	502	0,520082142	0,419909158	0,424909158	424,9091584	0,4534	453,4	0,046	0,0486	48,6	0,093058752
Lotus	6	2	8	2	2	40	200	10	04:00	15	15	1	03:59:55	27,80	2,16	2158,27	409	453	505	0,505	0,5104	510,4	0,527082067	0,420909233	0,426309233	426,3092325	0,454	454	0,052	0,0564	56,4	0,096802878
Lotus	6	2	8	2	2	40	200	10	05:00	16	16	1	05:02:28	29,50	2,03	2033,90	414	460	523	0,523	0,5164	516,4	0,518052437	0,447938863	0,441338863	441,3388631	0,4548	454,8	0,063	0,0616	61,6	0,095076947
Lotus	6	2	8	2	2	40	200	10	06:00	17	17	1	05:58:16	26,90	2,23	2230,48	409	450	497	0,497	0,501	501	0,532324506	0,407666794	0,411666794	411,6667945	0,4532	453,2	0,047	0,0478	47,8	0,096596543
Lotus	6	2	8	2	2	40	200	10	07:00	18	18	1	06:59:40	34,80	1,72	1724,14	394	435	492	0,492	0,4918	491,8	0,495563834	0,439427466	0,439227466	439,2274662	0,434	434	0,057	0,0578	57,8	0,083367908
Lotus	6	2	8	2	2	40	200	10	08:00	19	19	1	08:00:08	35,30	1,70	1699,72	383	421	477	0,477	0,4858	485,8	0,493790853	0,426200447	0,435000447	435,0004466	0,4226	422,6	0,056	0,0632	63,2	0,081765511
Lotus	6	2	8	2	2	40	200	10	09:00	20	20	1	09:02:12	28,80	2,08	2083,33	393	430	487	0,487	0,4922	492,2	0,52164142	0,40834988	0,41354988	413,54988	0,4318	431,8	0,057	0,0604	60,4	0,091716055
Lotus	6	2	8	2	2	40	200	10	10:00	21	21	1	10:00:09	28,60	2,10	2097,90	404	445	503	0,503	0,5006	500,6	0,522699112	0,423292188	0,420892188	420,8921877	0,4454	445,4	0,058	0,0552	55,2	0,093606893
Lotus	6	2	8	2	2	40	200	10	11:00	22	22	1	10:56:44	26,10	2,30	2298,85	408	448	517	0,517	0,5096	509,6	0,537287972	0,422703328	0,415303328	415,3033283	0,4492	449,2	0,069	0,0604	60,4	0,099749141
Lotus	6	2	8	2	2	40	200	10	12:00	23	23	1	11:59:58	27,00	2,22	2222,22	411	450	503	0,503	0,5026	502,6	0,531724753	0,414266547	0,413866547	413,8665467	0,4514	451,4	0,053	0,0512	51,2	0,096725415
Lotus	6	2	8	2	2	40	200	10	13:00	24	24	1	12:58:59	28,00	2,14	2142,86	409	448	512	0,512	0,5098	509,8	0,525962849	0,429028451	0,426828451	426,8284514	0,45	450	0,064	0,0598	59,8	0,096343144

Horse	No	Stable	Age	Day	Gender	QTgain	QTfeed	HRfeed	Time	timex	tidxcopy	No	EKGtime	HR	RR	RRms	QTpeak1	Qtpeak2	QT	Qts	AvgQT	AvgQTms	StandardhorseRR>0,8021	QTc	AvgQTc	AvgQTcms	AvgQtpeak	AvgQtpeakms	Tptend	Tptendavg	TpTendavg(ms)	Bazett
Lotus	6	2	8	3	2	40	200	10	14:00	1	1	1	14:02:34	36,00	1,67	1666,67		436	498	0,498	0,4994	499,4	0,49139142	0,44959988	0,45099988	450,99988	0,4356	435,6	0,062	0,0638	63,8	0,083233333
Lotus	6	2	8	3	2	40	200	10	15:00	2	2	1	14:57:28	37,30	1,61	1608,58		424	490	0,49	0,4912	491,2	0,487174262	0,445817038	0,447017038	447,0170382	0,4224	422,4	0,066	0,0688	68,8	0,080427384
Lotus	6	2	8	3	2	40	200	10	16:00	3	3	1	16:00:13	28,80	2,08	2083,33	401	440	495	0,495	0,4992	499,2	0,52164142	0,41634988	0,42054988	420,54988	0,4404	440,4	0,055	0,0588	58,8	0,093020428
Lotus	6	2	8	3	2	40	200	10	17:00	4	4	1	16:57:45	29,50	2,03	2033,90	396	435	495	0,495	0,4936	493,6	0,518052437	0,419938863	0,418538863	418,5388631	0,436	436	0,06	0,0576	57,6	0,090879126
Lotus	6	2	8	3	2	40	200	10	18:00	5	5	1	17:58:07	28,70	2,09	2090,59	414	455	513	0,513	0,5146	514,6	0,522168423	0,433822877	0,435422877	435,4228765	0,4556	455,6	0,058	0,059	59	0,096056959
Lotus	6	2	8	3	2	40	200	10	19:00	6	6	1	19:00:09	27,30	2,20	2197,80	408	450	510	0,51	0,5088	508,8	0,52995186	0,42303944	0,42183944	421,8394404	0,4484	448,4	0,06	0,0604	60,4	0,097379105
Lotus	6	2	8	3	2	40	200	10	20:00	7	7	1	20:02:09	35,30	1,70	1699,72		431	500	0,5	0,4954	495,4	0,493790853	0,449200447	0,444600447	444,6004466	0,4296	429,6	0,069	0,0658	65,8	0,083381298
Lotus	6	2	8	3	2	40	200	10	21:00	8	8	1	20:59:38	36,10	1,66	1662,05		419	485	0,485	0,4874	487,4	0,49105624	0,43693506	0,43933506	439,3350601	0,4206	420,6	0,066	0,0668	66,8	0,081120744
Lotus	6	2	8	3	2	40	200	10	22:00	9	9	1	21:56:43	33,80	1,78	1775,15		431	498	0,498	0,503	503	0,49926716	0,44172414	0,44672414	446,7241404	0,4342	434,2	0,067	0,0688	68,8	0,08651863
Lotus	6	2	8	3	2	40	200	10	23:00	10	10	1	23:00:22	29,80	2,01	2013,42	401	441	492	0,492	0,4978	497,8	0,516565917	0,418425383	0,424225383	424,2253834	0,441	441	0,051	0,0568	56,8	0,091189904
Lotus	6	2	8	3	2	40	200	10	00:00	11	11	1	00:03:23	30,10	1,99	1993,36	389	428	485	0,485	0,4928	492,8	0,515109028	0,412882272	0,420682272	420,682272	0,4308	430,8	0,057	0,062	62	0,089822978
Lotus	6	2	8	3	2	40	200	10	02:00	13	13	1	02:00:24	29,40	2,04	2040,82	414	458	510	0,51	0,5086	508,6	0,518554685	0,434436615	0,433036615	433,0366147	0,4544	454,4	0,052	0,0542	54,2	0,093799968
Lotus	6	2	8	3	2	40	200	10	05:00	16	16	1	05:02:13	27,20	2,21	2205,88	416	461	525	0,525	0,5188	518,8	0,530538479	0,437452821	0,431252821	431,2528212	0,4596	459,6	0,064	0,0592	59,2	0,099475359
Lotus	6	2	8	3	2	40	200	10	06:00	17	17	1	06:02:28	29,00	2,07	2068,97	423	463	510	0,51	0,5184	518,4	0,520598317	0,432392983	0,440792983	440,7929834	0,461	461	0,047	0,0574	57,4	0,096264463
Lotus	6	2	8	3	2	40	200	10	08:00	19	19	1	08:01:15	35,30	1,70	1699,72		433	497	0,497	0,5	500	0,493790853	0,446200447	0,449200447	449,2004466	0,4324	432,4	0,064	0,0676	67,6	0,084155528
Lotus	6	2	8	3	2	40	200	10	09:00	20	20	1	09:00:20	28,70	2,09	2090,59	393	430	495	0,495	0,4904	490,4	0,522168423	0,415822877	0,411222877	411,2228765	0,4312	431,2	0,065	0,0592	59,2	0,091539706
Lotus	6	2	8	3	2	40	200	10	10:00	21	21	1	09:59:33	34,90	1,72	1719,20		430	492	0,492	0,4938	493,8	0,495205174	0,439786126	0,441586126	441,5861264	0,428	428	0,062	0,0658	65,8	0,08358693
Lotus	6	2	8	3	2	40	200	10	11:00	22	22	1	11:00:42	27,00	2,22	2222,22	413	456	512	0,512	0,5042	504,2	0,531724753	0,423266547	0,415466547	415,4665467	0,4538	453,8	0,056	0,0504	50,4	0,097033335
Lotus	6	2	8	3	2	40	200	10	12:00	23	23	1	12:01:09	32,30	1,86	1857,59		436	492	0,492	0,495	495	0,505252101	0,429739199	0,432739199	432,7391989	0,4346	434,6	0,056	0,0604	60,4	0,087097149
Lotus	6	2	8	3	2	40	200	10	13:00	24	24	1	13:00:35	25,90	2,32	2316,60	406	441	502	0,502	0,5004	500,4	0,538576748	0,406414552	0,404814552	404,8145518	0,4454	445,4	0,061	0,055	55	0,098325784
Napoleon	7	1	6	1	2	40	200	10	13:00	0	0	1	13:01:25	35,80	1,68	1675,98	446	492	547	0,547	0,5514	551,4	0,492067398	0,497923902	0,502323902	502,3239023	0,4908	490,8	0,055	0,0606	60,6	0,092156346
Napoleon	7	1	6	1	2	40	200	10	14:00	1	1	1	13:58:42	35,80	1,68	1675,98	460	505	574	0,574	0,5616	561,6	0,492067398	0,524923902	0,512523902	512,5239023	0,5028	502,8	0,069	0,0588	58,8	0,093861088
Napoleon	7	1	6	1	2	40	200	10	15:00	2	2	1	15:00:59	37,40	1,60	1604,28	448	497	555	0,555	0,549	549	0,486862008	0,511129292	0,505129292	505,1292918	0,4916	491,6	0,058	0,0574	57,4	0,089771099
Napoleon	7	1	6	1	2	40	200	10	16:00	3	3	1	16:00:00	39,60	1,52	1515,15	423	465	520	0,52	0,5276	527,6	0,48039142	0,48259988	0,49019988	490,19988	0,461	461	0,055	0,0666	66,6	0,083841144
Napoleon	7	1	6	1	2	40	200	10	17:00	4	4	1	16:59:11	37,50	1,60	1600,00	416	463	539	0,539	0,53	530	0,48655142	0,49543988	0,48643988	486,43988	0,4652	465,2	0,076	0,0648	64,8	0,086548638
Napoleon	7	1	6	1	2	40	200	10	18:00	5	5	1	18:00:41	32,70	1,83	1834,86	433	477	529	0,429	0,5206	520,6	0,503602429	0,368388871	0,459988871	459,9888708	0,4822	482,2	-0,048	0,0384	38,4	0,091039589
Napoleon	7	1	6	1	2	40	200	10	19:00	6	6	1	19:00:11	31,00	1,94	1935,48	436	480	529	0,529	0,5444	544,4	0,510907549	0,461083751	0,476483751	476,483751	0,483	483	0,049	0,0614	61,4	0,097777126
Napoleon	7	1	6	1	2	40	200	10	20:00	7	7	1	20:01:05	36,50	1,64	1643,84	423	468	534	0,534	0,5322	532,2	0,489733886	0,487257414	0,485457414	485,4574142	0,4666	466,6	0,066	0,0656	65,6	0,088090371
Napoleon	7	1	6	1	2	40	200	10	21:00	8	8	1	21:01:23	35,20	1,70	1704,55	423	465	527	0,527	0,525	525	0,49414142	0,47584988	0,47384988	473,84988	0,4664	466,4	0,062	0,0586	58,6	0,088488732
Napoleon	7	1	6	1	2	40	200	10	22:00	9	9	1	22:00:10	36,50	1,64	1643,84	411	453	523	0,523	0,5206	520,6	0,489733886	0,476257414	0,473857414	473,8574142	0,4552	455,2	0,07	0,0654	65,4	0,086170325
Napoleon	7	1	6	1	2	40	200	10	23:00	10	10	1	23:00:19	36,50	1,64	1643,84	419	463	520	0,52	0,523	523	0,489733886	0,473257414	0,476257414	476,2574142	0,459	459	0,057	0,064	64	0,086567576
Napoleon	7	1	6	1	2	40	200	10	00:00	11	11	1	00:01:16	35,90	1,67	1671,31	414	456	518	0,518	0,5156	515,6	0,491728467	0,469262833	0,466862833	466,8628326	0,4574	457,4	0,062	0,0582	58,2	0,086052934
Napoleon	7	1	6	1	2	40	200	10	01:00	12	12	1	01:00:19	38,60	1,55	1554,40		455	542	0,542	0,5332	533,2	0,483241161	0,501750139	0,492950139	492,9501391	0,4574	457,4	0,087	0,0758	75,8	0,085821577
Napoleon	7	1	6	1	2	40	200	10	04:00	15	15	1	04:01:53	30,20	1,99	1986,75	436	477	529	0,529	0,5352	535,2	0,514629831	0,457361469	0,463561469	463,5614694	0,4794	479,4	0,052	0,0558	55,8	0,097389611
Napoleon	7	1	6	1	2	40	200	10	05:00	16	16	1	05:01:26	30,70	1,95	1954,40	436	485	539	0,539	0,5418	541,8	0,512280671	0,469710629	0,472510629	472,5106292	0,4844	484,4	0,054	0,0574	57,4	0,097784454
Napoleon	7	1	6	1	2	40	200	10	06:00	17	17	1	05:59:04	29,30	2,05	2047,78	445	490	545	0,545	0,5482	548,2	0,519060362	0,468930938	0,472130938	472,130938	0,4906	490,6	0,055	0,0576	57,6	0,101275692
Napoleon	7	1	6	1	2	40	200	10	07:00	18	18	1	07:02:33	36,40	1,65	1648,35	430	473	549	0,549	0,539	539	0,49006175	0,50192955	0,49192955	491,9295503	0,4728	472,8	0,076	0,0662	66,2	0,08933838
Napoleon	7	1	6	1	2	40	200	10	08:00	19	19	1	08:01:18	34,10	1,76	1759,53		473	545	0,545	0,538	538	0,498133355	0,489857945	0,482857945	482,8579445	0,468	468	0,072	0,07	70	0,092130852
Napoleon	7	1	6	1	2	40	200	10	09:00	20	20	1	09:00:42	29,30	2,05	2047,78	441	482	545	0,545	0,5468	546,8	0,519060362	0,468930938	0,470730938	470,730938	0,4872	487,2	0,063	0,0596	59,6	0,101017053
Napoleon	7	1	6	1	2	40	200	10	10:00	21	21	1	10:00:17	29,50	2,03	2033,90	445	490	550	0,55	0,5466	546,6	0,518052437	0,474938863	0,471538863	471,5388631	0,4876	487,6	0,06	0,059	59	0,100637217
Napoleon	7	1	6	1	2	40	200	10	11:00	22	22	1	11:00:29	29,40	2,04	2040,82	450	497	550	0,55	0,55	550	0,518554685	0,474436615	0,474436615	474,4366147	0,493	493	0,053	0,057	57	0,101435278
Napoleon	7	1	6	1	2	40	200	10	12:00	23	23	1	12:00:33	32,00	1,88	1875,00	438	487	549	0,549	0,5466	546,6	0,50651642	0,48547488	0,48307488	483,07488	0,4888	488,8	0,062	0,0578	57,8	0,096626142
Napoleon	7	1	6	2	2	40	200	10	13:00	0	0	1	13:00:56	33,90	1,77	1769,91	424	465	545	0,545	0,5274	527,4	0,498886995	0,489104305	0,471504305	471,5043048	0,4612	461,2	0,08	0,0662	66,2	0,09058166
Napoleon	7	1	6	2	2	40	200	10	14:00	1	1	1	14:00:19	35,10	1,71	1709,40	406	456	522	0,522	0,5272	527,2	0,494493984	0,470497316	0,475697316	475,6973159	0,4622	462,2	0,066	0,065	65	0,088986032
Napoleon	7	1	6	2	2	40	200	10	15:00	2	2	1	15:03:41	36,60	1,64	1639,34		465	544	0,544	0,5366	536,6	0,489407813	0,497583487	0,490183487	490,1834866	0,465	465	0,079	0,0716	71,6	0,088697244
Napoleon	7	1	6	2	2	40	200	10	16:00	3	3	1	16:00:46	29,60	2,03	2027,03	440	482	537	0,537	0,5418	541,8	0,517553582	0,462437718	0,467237718	467,2377178	0,4814	481,4	0,055	0,0604	60,4	0,099584821
Napoleon	7	1	6	2	2	40	200	10	17:00	4	4	1	16:59:04	29,80	2,01	2013,42	445	488	547	0,547	0,5494	549,4	0,516565917	0,473425383	0,475825383	475,8253834	0,4862	486,2	0,059	0,0632	63,2	0,100642293
Napoleon	7	1	6	2	2	40	200	10	18:00	5	5	1	18:00:33	30,30	1,98	1980,20	450	490	554	0,554	0,552	552	0,514153796	0,482837504	0,480837504	480,8375038	0,4846	484,6	0,064	0,0674	67,4	0,100280794
Napoleon	7	1	6	2	2	40	200	10	19:00	6	6	1	18:57:26	27,30	2,20	2197,80	433	477	542	0,542	0,5422	542,2	0,52995186	0,45503944	0,45523944	455,2394404	0,483	483	0,065	0,0592	59,2	0,103771523
Napoleon	7	1	6	2	2	40	200	10	20:00	7	7	1	19:59:38	34,20	1,75	1754,39	413	450	525	0,525	0,5228	522,8	0,497759841	0,470231459	0,468031459	468,0314589	0,4518	451,8	0,075	0,071	71	0,089396914
Napoleon	7	1	6	2	2	40	200	10	21:00	8	8	1	20:59:27	36,80	1,63	1630,43	408	450	510	0,51	0,507	507	0,488760985	0,464230315	0,461230315	461,2303148	0,4434	443,4	0,06	0,0636	63,6	0,083576475
Napoleon	7	1	6	2	2	40	200	10	22:00	9	9	1	22:00:05	36,60	1,64	1639,34	404	448	517	0,517	0,5094	509,4	0,489407813	0,470583487	0,462983487	462,9834866	0,4462	446,2	0,069	0,0632	63,2	0,084201223
Napoleon	7	1	6	2	2	40	200	10	23:00	10	10	1	23:00:45	35,80	1,68	1675,98		450	512	0,512	0,521	521	0,492067398	0,462923902	0,471923902	471,9239023	0,4506	450,6	0,062	0,0704	70,4	0,087075547
Napoleon	7	1	6	2	2	40	200	10	00:00	11	11	1	00:00:03	31,80	1,89	1886,79	414	458	522	0,522	0,5242	524,2	0,507372552	0,457618748	0,459818749	459,8187479	0,4594	459,4	0,064	0,0648	64,8	0,092957291
Napoleon	7	1	6	2	2	40	200	10	01:00	12	12	1	01:01:26	30,70	1,95	1954,40	428	471	535	0,535	0,533	533	0,512280671	0,465710629	0,463710629	463,7106292	0,4672	467,2	0,064	0,0658	65,8	0,096196223
Napoleon	7	1	6	2	2	40	200	10	02:00	13	13	1	02:00:25	32,20	1,86	1863,35	414	458	513	0,513	0,5224	522,4	0,505670923	0,450320377	0,459720377	459,7203769	0,4646	464,6	0,055	0,0578	57,8	0,092060903
Napoleon	7	1	6	2	2	40	200	10	03:00	14	14	1	03:01:55	32,40	1,85	1851,85	426	470	529	0,529	0,5374	537,4	0,504835864	0,467155436	0,475555436	475,5554356	0,4694	469,4	0,059	0,068	68	0,094411556
Napoleon	7	1	6	2	2	40	200	10	04:00	15	15	1	04:02:11	32,20	1,86	1863,35	419	461	517	0,517	0,516	516	0,505670923	0,454320377	0,453320377	453,3203769	0,4602	460,2	0,056	0,0558	55,8	0,090933052
Napoleon	7	1	6	2	2	40	200	10	05:00	16	16	1	05:00:04	31,20	1,92	1923,08	446	492	560	0,56	0,5548	554,8	0,510006805	0,492984495	0,487784495	487,7844954	0,4894	489,4	0,068	0,0654	65,4	0,099325133
Napoleon	7	1	6	2	2	40	200	10	06:00	17	17	1	06:03:29	35,30	1,70	1699,72	438	480	547	0,547	0,5446	544,6	0,493790853	0,496200447	0,493800447	493,8004466	0,4826	482,6	0,067	0,062	62	0,091662202
Napoleon	7	1	6	2	2	40	200	10	07:00	18	18	1	07:01:35	38,00	1,58	1578,95	416	456	512	0,512	0,52	520	0,485022999	0,469968301	0,477968301	477,9683011	0,4578	457,8	0,056	0,0622	62,2	0,084355139
Napoleon	7	1	6	2	2	40	200	10	08:00	19	19	1	08:02:19	31,30	1,92	1916,93	435	475	535	0,535	0,5346	534,6	0,509560749	0,468430551	0,468030551	468,0305509	0,4722	472,2	0,06	0,0624	62,4	0,095555741
Napoleon	7	1	6	2	2	40	200	10	09:00	20	20	1	09:00:43	32,70	1,83	1834,86	430	470	537	0,537	0,5422	542,2	0,503602429	0,476388871	0,481588871	481,5888708	0,4744	474,4	0,067	0,0678	67,8	0,094816875
Napoleon	7	1	6	2	2	40	200	10	10:00	21	21	1	10:00:28	28,30	2,12	2120,14	445	490	545	0,545	0,5528	552,8	0,524313681	0,463677619	0,471477619	471,4776185	0,495	495	0,055	0,0578	57,8	0,10391418
Napoleon	7	1	6	2	2	40	200	10	11:00	22	22	1	11:00:55	26,60	2,26	2255,64	445	488	550	0,55	0,5474	547,4	0,534150818	0,458840482	0,456240482	456,2404815	0,4862	486,2	0,062	0,0612	61,2	0,106136308
Napoleon	7	1	6	2	2	40	200	10	12:00	23	23	1	11:58:02	28,00	2,14	2142,86	448	492	552	0,552	0,5534	553,4	0,525962849	0,469028451	0,470428451	470,4284514	0,4944	494,4	0,06	0,059	59	0,10458277
Napoleon	7	1	6	3	2	40	200	10	13:00	0	0	1	12:59:27	35,40	1,69	1694,92	428	473	539	0,539	0,5286	528,6	0,493442267	0,488549033	0,478149033	478,1490325	0,4712	471,2	0,066	0,0574	57,4	0,088843473
Napoleon	7	1	6	3	2	40	200	10	14:00	1	1	1	14:03:22	37,30	1,61	1608,58		461	530	0,53	0,5262	526,2	0,487174262	0,485817038	0,482017038	482,0170382	0,4586	458,6	0,069	0,0676	67,6	0,086158162
Napoleon	7	1	6	3	2	40	200	10	15:00	2	2	1	15:01:30	36,90	1,63	1626,02		463	539	0,539	0,5322	532,2	0,4884402	0,4935511	0,4867511	486,7510995	0,4616	461,6	0,076	0,0706	70,6	0,087611615
Napoleon	7	1	6	3	2	40	200	10	16:00	3	3	1	16:00:20	33,50	1,79	1791,04	421	465	525	0,525	0,5358	535,8	0,500421271	0,467570029	0,478370029	478,3700293	0,4688	468,8	0,06	0,067	67	0,09257214
Napoleon	7	1	6	3	2	40	200	10	17:00	4	4	1	17:00:12	32,50	1,85	1846,15	426	468	532	0,532	0,5304	530,4	0,504422189	0,470569111	0,468969111	468,9691108	0,4648	464,8	0,064	0,0656	65,6	0,093038315
Napoleon	7	1	6	3	2	40	200	10	18:00	5	5	1	17:59:05	29,90	2,01	2006,69	438	480	549	0,549	0,5466	546,6	0,516077039	0,475914261	0,473514261	473,5142613	0,4828	482,8	0,069	0,0638	63,8	0,099961792
Napoleon	7	1	6	3	2	40	200	10	19:00	6	6	1	18:58:00	31,60	1,90	1898,73	426	468	535	0,535	0,5272	527,2	0,508239521	0,469751779	0,461951779	461,9517787	0,4648	464,8	0,067	0,0624	62,4	0,093784671
Napoleon	7	1	6	3	2	40	200	10	20:00	7	7	1	20:00:27	37,10	1,62	1617,25	411	451	518	0,518	0,5162	516,2	0,487803819	0,473187481	0,471387481	471,3874811	0,4506	450,6	0,067	0,0656	65,6	0,08474831
Napoleon	7	1	6	3	2	40	200	10	21:00	8	8	1	20:56:18	36,60	1,64	1639,34	406	445	503	0,503	0,4996	499,6	0,489407813	0,456583487	0,453183487	453,1834866	0,4398	439,8	0,058	0,0598	59,8	0,082581333
Napoleon	7	1	6	3	2	40	200	10	22:00	9	9	1	22:00:04	31,80	1,89	1886,79	423	463	515	0,515	0,5276	527,6	0,507372552	0,450618748	0,463218748	463,2187479	0,4666	466,6	0,052	0,061	61	0,093560218
Napoleon	7	1	6	3	2	40	200	10	23:00	10	10	1	22:58:20	31,00	1,94	1935,48	426	466	530	0,53	0,5282	528,2	0,510907549	0,462083751	0,460283751	460,283751	0,4676	467,6	0,064	0,0606	60,6	0,094867521
Napoleon	7	1	6	3	2	40	200	10	00:00	11	11	1	00:00:47	31,10	1,93	1929,26	433	480	534	0,534	0,5388	538,8	0,510455729	0,466535571	0,471335571	471,3355713	0,4818	481,8	0,054	0,057	57	0,096615631
Napoleon	7	1	6	3	2	40	200	10	01:00	12	12	1	01:01:14	30,20	1,99	1986,75	431	470	535	0,535	0,5304	530,4	0,514629831	0,463361469	0,458761469	458,7614694	0,4714	471,4	0,065	0,059	59	0,096516162
Napoleon	7	1	6	3	2	40	200	10	02:00	13	13	1	02:00:29	30,30	1,98	1980,20	441	485	554	0,554	0,5502	550,2	0,514153796	0,482837504	0,479037504	479,0375038	0,4858	485,8	0,069	0,0644	64,4	0,099953791

Horse	No	Stable	Age	Day	Gender	QTgain	QTfeed	HRfeed	Time	timex	tidxcopy	No	EKGtime	HR	RR	RRms	QTpeak1	Qtpeak2	QT	Qts	AvgQT	AvgQTms	StandardhorseRR>0,8021	QTc	AvgQTc	AvgQTcms	AvgQtpeak	AvgQtpeakms	Tptend	Tptendavg	TpTendavg(ms)	Bazett
Napoleon	7	1	6	3	2	40	200	10	03:00	14	14	1	03:00:05	31,50	1,90	1904,76	441	490	542	0,542	0,5398	539,8	0,508677134	0,476314166	0,474114166	474,1141657	0,4878	487,8	0,052	0,052	52	0,096178412
Napoleon	7	1	6	3	2	40	200	10	04:00	15	15	1	04:00:42	29,50	2,03	2033,90	458	505	560	0,56	0,5616	561,6	0,518052437	0,484938863	0,486538863	486,5388631	0,5002	500,2	0,055	0,0614	61,4	0,103398941
Napoleon	7	1	6	3	2	40	200	10	05:00	16	16	1	05:00:22	32,10	1,87	1869,16	473	518	579	0,579	0,58	580	0,506092355	0,515898945	0,516898945	516,8989454	0,5166	516,6	0,061	0,0634	63,4	0,102370654
Napoleon	7	1	6	3	2	40	200	10	06:00	17	17	1	05:59:57	33,80	1,78	1775,15	433	477	540	0,54	0,5422	542,2	0,49926716	0,48372414	0,48592414	485,9241404	0,481	481	0,063	0,0612	61,2	0,093261235
Napoleon	7	1	6	3	2	40	200	10	07:00	18	18	1	07:00:31	35,50	1,69	1690,14	414	456	520	0,52	0,5226	522,6	0,493095645	0,469895655	0,472495655	472,4956546	0,4542	454,2	0,064	0,0684	68,4	0,087711236
Napoleon	7	1	6	3	2	40	200	10	08:00	19	19	1	08:01:01	32,40	1,85	1851,85	428	471	534	0,534	0,5302	530,2	0,504835864	0,472155436	0,468355436	468,3554356	0,4692	469,2	0,063	0,061	61	0,093146645
Napoleon	7	1	6	3	2	40	200	10	09:00	20	20	1	09:04:00	28,20	2,13	2127,66	440	482	539	0,539	0,5402	540,2	0,524859505	0,457131795	0,458331795	458,3317949	0,4806	480,6	0,057	0,0596	59,6	0,101725545
Napoleon	7	1	6	3	2	40	200	10	10:00	21	21	1	10:01:21	28,50	2,11	2105,26	451	495	544	0,544	0,5464	546,4	0,523233525	0,463757775	0,466157775	466,1577747	0,494	494	0,049	0,0524	52,4	0,102350097
Napoleon	7	1	6	3	2	40	200	10	11:00	22	22	1	11:03:20	27,60	2,17	2173,91	441	488	552	0,552	0,5496	549,6	0,528217507	0,466773793	0,464373793	464,373793	0,487	487	0,064	0,0626	62,6	0,104614572
Napoleon	7	1	6	3	2	40	200	10	12:00	23	23	1	12:00:45	28,40	2,11	2112,68	438	482	540	0,54	0,5356	535,6	0,523771702	0,459219598	0,454819598	454,8195983	0,4804	480,4	0,058	0,0552	55,2	0,100503549
Gendarm	8	1	12	1	2	40	200	10	13:00	0	0	1	13:00:09	35,80	1,68	1675,98	431	482	542	0,542	0,5426	542,6	0,492067398	0,492923902	0,493523902	493,5239023	0,4822	482,2	0,06	0,0604	60,4	0,090685589
Gendarm	8	1	12	1	2	40	200	10	14:00	1	1	1	13:59:56	35,80	1,68	1675,98	436	488	544	0,544	0,5456	545,6	0,492067398	0,494923902	0,496523902	496,5239023	0,486	486	0,056	0,0596	59,6	0,091186983
Gendarm	8	1	12	1	2	40	200	10	15:00	2	2	1	15:02:38	43,00	1,40	1395,35	424	475	529	0,529	0,536	536	0,471693746	0,500297554	0,507297554	507,2975544	0,4752	475,2	0,054	0,0608	60,8	0,081739234
Gendarm	8	1	12	1	2	40	200	10	16:00	3	3	1	15:59:55	45,80	1,31	1310,04		440	498	0,498	0,5066	506,6	0,46550059	0,47549071	0,48409071	484,0907097	0,4404	440,4	0,058	0,0662	66,2	0,074857005
Gendarm	8	1	12	1	2	40	200	10	17:00	4	4	1	16:59:10	42,60	1,41	1408,45		456	530	0,53	0,5216	521,6	0,472644941	0,500346359	0,491946359	491,9463589	0,4528	452,8	0,074	0,0688	68,8	0,079915824
Gendarm	8	1	12	1	2	40	200	10	18:00	5	5	1	17:59:41	37,30	1,61	1608,58	418	468	517	0,517	0,5266	526,6	0,487174262	0,472817038	0,482417038	482,4170382	0,468	468	0,049	0,0586	58,6	0,086223657
Gendarm	8	1	12	1	2	40	200	10	19:00	6	6	1	19:00:59	36,80	1,63	1630,43	413	465	527	0,527	0,5326	532,6	0,488760985	0,481230315	0,486830315	486,8303148	0,4642	464,2	0,062	0,0684	68,4	0,08779651
Gendarm	8	1	12	1	2	40	200	10	20:00	7	7	1	20:00:08	44,80	1,34	1339,29		438	525	0,525	0,5108	510,8	0,467623563	0,500367737	0,486167737	486,1677371	0,4368	436,8	0,087	0,074	74	0,076315347
Gendarm	8	1	12	1	2	40	200	10	21:00	8	8	1	20:57:51	42,80	1,40	1401,87		438	500	0,5	0,508	508	0,472167121	0,470824179	0,478824179	478,8241791	0,4378	437,8	0,062	0,0702	70,2	0,077650066
Gendarm	8	1	12	1	2	40	200	10	22:00	9	9	1	22:01:57	38,00	1,58	1578,95		443	507	0,507	0,507	507	0,485022999	0,464968301	0,464968301	464,9683011	0,4394	439,4	0,064	0,0676	67,6	0,082246261
Gendarm	8	1	12	1	2	40	200	10	23:00	10	10	1	22:58:43	39,60	1,52	1515,15	396	441	510	0,51	0,512	512	0,48039142	0,47259988	0,47459988	474,59988	0,4464	446,4	0,069	0,0656	65,6	0,081362141
Gendarm	8	1	12	1	2	40	200	10	00:00	11	11	1	00:01:18	39,90	1,50	1503,76		436	510	0,51	0,5184	518,4	0,479564352	0,473426948	0,481826948	481,8269477	0,435	435	0,074	0,0834	83,4	0,082068887
Gendarm	8	1	12	1	2	40	200	10	01:00	12	12	1	01:00:53	37,30	1,61	1608,58		440	525	0,525	0,518	518	0,487174262	0,480817038	0,473817038	473,8170382	0,445	445	0,085	0,073	73	0,084815523
Gendarm	8	1	12	1	2	40	200	10	02:00	13	13	1	02:00:17	41,50	1,45	1445,78		436	502	0,502	0,5066	506,6	0,475355275	0,469636025	0,474236025	474,2360246	0,4378	437,8	0,066	0,0688	68,8	0,078639571
Gendarm	8	1	12	1	2	40	200	10	03:00	14	14	1	02:59:29	36,90	1,63	1626,02		465	525	0,525	0,5254	525,4	0,4884402	0,4795511	0,4799511	479,9510995	0,4602	460,2	0,06	0,0652	65,2	0,086492188
Gendarm	8	1	12	1	2	40	200	10	04:00	15	15	1	04:00:03	35,10	1,71	1709,40	418	466	540	0,54	0,537	537	0,494493984	0,488497316	0,485497316	485,4973159	0,4676	467,6	0,074	0,0694	69,4	0,090640173
Gendarm	8	1	12	1	2	40	200	10	05:00	16	16	1	05:00:36	36,50	1,64	1643,84		458	518	0,518	0,5254	525,4	0,489733886	0,471257414	0,478657414	478,6574142	0,4574	457,4	0,06	0,068	68	0,086964827
Gendarm	8	1	12	1	2	40	200	10	06:00	17	17	1	05:57:51	36,60	1,64	1639,34		460	537	0,537	0,533	533	0,489407813	0,490583487	0,486583487	486,5834866	0,4566	456,6	0,077	0,0764	76,4	0,088102182
Gendarm	8	1	12	1	2	40	200	10	07:00	18	18	1	07:02:11	40,50	1,48	1481,48		443	522	0,522	0,522	522	0,477946976	0,487044324	0,487044324	487,0443244	0,445	445	0,079	0,077	77	0,082024387
Gendarm	8	1	12	1	2	40	200	10	08:00	19	19	1	08:01:55	41,40	1,45	1449,28		436	507	0,507	0,5138	513,8	0,475608811	0,474382489	0,481182489	481,1824887	0,4376	437,6	0,071	0,0762	76,2	0,079853495
Gendarm	8	1	12	1	2	40	200	10	09:00	20	20	1	09:01:57	39,90	1,50	1503,76		440	507	0,507	0,5064	506,4	0,479564352	0,470426948	0,469826948	469,8269477	0,4394	439,4	0,067	0,067	67	0,080169144
Gendarm	8	1	12	1	2	40	200	10	10:00	21	21	1	10:00:22	36,30	1,65	1652,89	416	460	523	0,523	0,5216	521,6	0,49039142	0,47559988	0,47419988	474,19988	0,4654	465,4	0,063	0,0562	56,2	0,086573359
Gendarm	8	1	12	1	2	40	200	10	11:00	22	22	1	11:00:25	35,80	1,68	1675,98	413	461	529	0,529	0,5268	526,8	0,492067398	0,479923902	0,477723902	477,7239023	0,462	462	0,068	0,0648	64,8	0,08804491
Gendarm	8	1	12	1	2	40	200	10	12:00	23	23	1	12:01:14	35,20	1,70	1704,55	406	455	523	0,523	0,5206	520,6	0,49414142	0,47184988	0,46944988	469,44988	0,4598	459,8	0,068	0,0608	60,8	0,087747112
Gendarm	8	1	12	2	2	40	200	10	13:00	0	0	1	13:01:57	41,00	1,46	1463,41		455	529	0,529	0,5272	527,2	0,476635322	0,495355978	0,493555978	493,5559776	0,4582	458,2	0,074	0,069	69	0,082334807
Gendarm	8	1	12	2	2	40	200	10	14:00	1	1	1	14:00:25	41,90	1,43	1431,98		451	508	0,508	0,5126	512,6	0,474353234	0,476638066	0,481238066	481,2380662	0,4486	448,6	0,057	0,064	64	0,079190227
Gendarm	8	1	12	2	2	40	200	10	15:00	2	2	1	15:03:44	41,00	1,46	1463,41		448	527	0,527	0,5216	521,6	0,476635322	0,493355978	0,487955978	487,9559776	0,452	452	0,079	0,0696	69,6	0,081460234
Gendarm	8	1	12	2	2	40	200	10	16:00	3	3	1	15:59:29	37,70	1,59	1591,51	406	461	520	0,52	0,5196	519,6	0,485935187	0,477056113	0,476656113	476,6561134	0,4628	462,8	0,059	0,0568	56,8	0,084624958
Gendarm	8	1	12	2	2	40	200	10	17:00	4	4	1	16:59:21	35,70	1,68	1680,67	411	463	520	0,52	0,5266	526,6	0,492408227	0,470583073	0,477183073	477,1830733	0,4652	465,2	0,057	0,0614	61,4	0,088134663
Gendarm	8	1	12	2	2	40	200	10	18:00	5	5	1	18:02:15	34,80	1,72	1724,14	419	463	525	0,525	0,5246	524,6	0,495563834	0,472427466	0,472027466	472,0274662	0,4652	465,2	0,062	0,0594	59,4	0,088928028
Gendarm	8	1	12	2	2	40	200	10	19:00	6	6	1	19:00:34	35,80	1,68	1675,98	416	465	530	0,53	0,5302	530,2	0,492067398	0,480923902	0,481123902	481,1239023	0,4644	464,4	0,065	0,0658	65,8	0,088613157
Gendarm	8	1	12	2	2	40	200	10	20:00	7	7	1	19:59:50	42,20	1,42	1421,80		441	515	0,515	0,5122	512,2	0,473614169	0,484377131	0,481577131	481,5771312	0,4424	442,4	0,074	0,0698	69,8	0,078846669
Gendarm	8	1	12	2	2	40	200	10	21:00	8	8	1	21:01:37	40,40	1,49	1485,15		443	503	0,503	0,507	507	0,478213202	0,467778098	0,471778098	471,7780978	0,4414	441,4	0,06	0,0656	65,6	0,079765901
Gendarm	8	1	12	2	2	40	200	10	22:00	9	9	1	22:02:02	38,30	1,57	1566,58		446	512	0,512	0,512	512	0,484125101	0,470866199	0,470866199	470,8661985	0,4488	448,8	0,066	0,0632	63,2	0,082731438
Gendarm	8	1	12	2	2	40	200	10	23:00	10	10	1	23:00:18	34,00	1,76	1764,71	426	468	534	0,534	0,53	530	0,498509067	0,478482233	0,474482233	474,4822329	0,4668	466,8	0,066	0,0632	63,2	0,09089425
Gendarm	8	1	12	2	2	40	200	10	00:00	11	11	1	00:00:12	38,40	1,56	1562,50		456	520	0,52	0,5248	524,8	0,48382892	0,47916238	0,48396238	483,96238	0,4576	457,6	0,064	0,0672	67,2	0,084689236
Gendarm	8	1	12	2	2	40	200	10	01:00	12	12	1	01:00:20	34,00	1,76	1764,71		465	530	0,53	0,5324	532,4	0,498509067	0,474482233	0,476882233	476,8822329	0,487	487	0,065	0,0454	45,4	0,091305847
Gendarm	8	1	12	2	2	40	200	10	02:00	13	13	1	02:01:53	35,20	1,70	1704,55	413	458	529	0,529	0,5274	527,4	0,49414142	0,47784988	0,47624988	476,24988	0,4586	458,6	0,071	0,0688	68,8	0,088893252
Gendarm	8	1	12	2	2	40	200	10	03:00	14	14	1	02:59:06	33,20	1,81	1807,23	423	471	535	0,535	0,5402	540,2	0,501596239	0,476395061	0,481595061	481,5950607	0,4722	472,2	0,064	0,068	68	0,093753079
Gendarm	8	1	12	2	2	40	200	10	04:00	15	15	1	04:01:35	33,00	1,82	1818,18	433	483	537	0,537	0,5368	536,8	0,50239142	0,47759988	0,47739988	477,39988	0,4802	480,2	0,054	0,0566	56,6	0,093444886
Gendarm	8	1	12	2	2	40	200	10	05:00	16	16	1	05:01:23	33,50	1,79	1791,04	428	478	544	0,544	0,5406	540,6	0,500421271	0,486570029	0,483170029	483,1700293	0,4778	477,8	0,066	0,0628	62,8	0,093401454
Gendarm	8	1	12	2	2	40	200	10	06:00	17	17	1	06:03:06	38,10	1,57	1574,80	413	475	520	0,52	0,527	527	0,484722129	0,478269171	0,485269171	485,2691713	0,4698	469,8	0,045	0,0572	57,2	0,085378423
Gendarm	8	1	12	2	2	40	200	10	07:00	18	18	1	07:04:00	38,90	1,54	1542,42		466	527	0,527	0,513	513	0,482370854	0,487620446	0,473620446	473,6204456	0,4562	456,2	0,061	0,0568	56,8	0,082251261
Gendarm	8	1	12	2	2	40	200	10	08:00	19	19	1	08:02:33	37,60	1,60	1595,74		453	513	0,513	0,511	511	0,486242484	0,469748816	0,467748816	467,7488162	0,45	450	0,06	0,061	61	0,083334911
Gendarm	8	1	12	2	2	40	200	10	09:00	20	20	1	09:00:22	35,10	1,71	1709,40		451	515	0,515	0,5242	524,2	0,494493984	0,463497316	0,472697316	472,6973159	0,4546	454,6	0,064	0,0696	69,6	0,088479663
Gendarm	8	1	12	2	2	40	200	10	10:00	21	21	1	10:00:44	33,50	1,79	1791,04	413	465	529	0,529	0,5302	530,2	0,500421271	0,471570029	0,472770029	472,7700293	0,4652	465,2	0,064	0,065	65	0,091604608
Gendarm	8	1	12	2	2	40	200	10	11:00	22	22	1	10:58:21	34,90	1,72	1719,20		458	530	0,53	0,5258	525,8	0,495205174	0,477786126	0,473586126	473,5861264	0,4542	454,2	0,072	0,0716	71,6	0,08900366
Gendarm	8	1	12	2	2	40	200	10	12:00	23	23	1	12:01:24	34,70	1,73	1729,11		456	518	0,518	0,5238	523,8	0,495924561	0,465066739	0,470866739	470,8667388	0,4572	457,2	0,062	0,0666	66,6	0,088920267
Gendarm	8	1	12	3	2	40	200	10	13:00	0	0	1	12:59:14	39,60	1,52	1515,15		465	530	0,53	0,5238	523,8	0,48039142	0,49259988	0,48639988	486,39988	0,4626	462,6	0,065	0,0612	61,2	0,083237284
Gendarm	8	1	12	3	2	40	200	10	14:00	1	1	1	13:59:38	41,50	1,45	1445,78		448	508	0,508	0,5064	506,4	0,475355275	0,475636025	0,474036025	474,0360246	0,4412	441,2	0,06	0,0652	65,2	0,078608525
Gendarm	8	1	12	3	2	40	200	10	15:00	2	2	1	15:01:27	38,90	1,54	1542,42		451	507	0,507	0,519	519	0,482370854	0,467620446	0,479620446	479,6204456	0,4552	455,2	0,056	0,0638	63,8	0,083213264
Gendarm	8	1	12	3	2	40	200	10	16:00	3	3	1	16:00:15	36,00	1,67	1666,67	419	466	535	0,535	0,529	529	0,49139142	0,48659988	0,48059988	480,59988	0,4684	468,4	0,069	0,0606	60,6	0,088166667
Gendarm	8	1	12	3	2	40	200	10	17:00	4	4	1	17:00:48	34,90	1,72	1719,20	413	466	520	0,52	0,5194	519,4	0,495205174	0,467786126	0,467186126	467,1861264	0,4638	463,8	0,054	0,0556	55,6	0,087920314
Gendarm	8	1	12	3	2	40	200	10	18:00	5	5	1	18:00:33	36,30	1,65	1652,89	414	461	525	0,525	0,5218	521,8	0,49039142	0,47759988	0,47439988	474,39988	0,4602	460,2	0,064	0,0616	61,6	0,086606555
Gendarm	8	1	12	3	2	40	200	10	19:00	6	6	1	18:59:59	34,60	1,73	1734,10	403	465	532	0,532	0,5262	526,2	0,496287374	0,478703926	0,472903926	472,9039262	0,4658	465,8	0,067	0,0604	60,4	0,089456684
Gendarm	8	1	12	3	2	40	200	10	20:00	7	7	1	19:59:25	41,90	1,43	1431,98		441	507	0,507	0,5028	502,8	0,474353234	0,475638066	0,471438066	471,4380662	0,44	440	0,066	0,0628	62,8	0,077676251
Gendarm	8	1	12	3	2	40	200	10	21:00	8	8	1	20:56:24	42,40	1,42	1415,09		430	503	0,503	0,5024	502,4	0,473127269	0,472864031	0,472264031	472,2640309	0,4322	432,2	0,073	0,0702	70,2	0,077155467
Gendarm	8	1	12	3	2	40	200	10	22:00	9	9	1	22:00:11	35,70	1,68	1680,67	404	451	512	0,512	0,5136	513,6	0,492408227	0,462583073	0,464183073	464,1830733	0,453	453	0,061	0,0606	60,6	0,085958911
Gendarm	8	1	12	3	2	40	200	10	23:00	10	10	1	23:00:13	35,30	1,70	1699,72	418	468	523	0,523	0,5212	521,2	0,493790853	0,472200447	0,470400447	470,4004466	0,462	462	0,055	0,0592	59,2	0,087723723
Gendarm	8	1	12	3	2	40	200	10	00:00	11	11	1	23:58:45	34,50	1,74	1739,13	403	455	515	0,515	0,5242	524,2	0,49665229	0,46133901	0,47053901	470,5390104	0,4574	457,4	0,06	0,0668	66,8	0,089245735
Gendarm	8	1	12	3	2	40	200	10	01:00	12	12	1	01:01:26	34,70	1,73	1729,11		456	527	0,527	0,5238	523,8	0,495924561	0,474066739	0,470866739	470,8667388	0,4582	458,2	0,071	0,0656	65,6	0,088920267
Gendarm	8	1	12	3	2	40	200	10	02:00	13	13	1	01:59:13	34,70	1,73	1729,11	413	461	525	0,525	0,5292	529,2	0,495924561	0,472066739	0,476266739	476,2667388	0,4632	463,2	0,064	0,066	66	0,08983697
Gendarm	8	1	12	3	2	40	200	10	03:00	14	14	1	03:00:44	33,90	1,77	1769,91	421	471	527	0,527	0,536	536	0,498886995	0,471104305	0,480104305	480,1043048	0,4736	473,6	0,056	0,0624	62,4	0,092058722
Gendarm	8	1	12	3	2	40	200	10	04:00	15	15	1	04:00:08	33,80	1,78	1775,15	426	477	542	0,542	0,5426	542,6	0,49926716	0,48572414	0,48632414	486,3241404	0,4774	477,4	0,065	0,0652	65,2	0,093330037
Gendarm	8	1	12	3	2	40	200	10	05:00	16	16	1	04:59:58	33,90	1,77	1769,91	430	483	550	0,55	0,5488	548,8	0,498886995	0,494104305	0,492904305	492,9043048	0,4834	483,4	0,067	0,0654	65,4	0,094257139
Gendarm	8	1	12	3	2	40	200	10	06:00	17	17	1	05:59:17	38,50	1,56	1558,44	406	463	512	0,512	0,5174	517,4	0,483534277	0,471457023	0,476857023	476,8570229	0,459	459	0,049	0,0584	58,4	0,08338656
Gendarm	8	1	12	3	2	40	200	10	07:00	18	18	1	07:00:03	38,50	1,56	1558,44		445	518	0,518	0,5136	513,6	0,483534277	0,477457023	0,473057023	473,0570229	0,4434	443,4	0,073	0,0702	70,2	0,082774135
Gendarm	8	1	12	3	2	40	200	10	08:00	19	19	1	08:00:04	33,60	1,79	1785,71	419	466	522	0,522	0,5324	532,4	0,500034277	0,464957023	0,475357023	475,3570229	0,4678	467,8	0,056	0,0646	64,6	0,091847726
Gendarm	8	1	12	3	2	40	200	10	09:00	20	20	1	09:02:27	33,80	1,78	1775,15	424	471	537	0,537	0,5354	535,4	0,49926716	0,48072414	0,47912414	479,1241404	0,4678	467,8	0,066	0,0676	67,6	0,0920916
Gendarm	8	1	12	3	2	40	200	10	10:00	21	21	1	10:01:07	32,70	1,83	1834,86	428	483	540	0,54	0,5318	531,8	0,503602429	0,479388871	0,471188871	471,1888708	0,4752	475,2	0,057	0,0566	56,6	0,092998182

Horse	No	Stable	Age	Day	Gender	QTgain	QTfeed	HRfeed	Time	timex	tidxcopy	No	EKGtime	HR	RR	RRms	QTpeak1	Qtpeak2	QT	Qts	AvgQT	AvgQTms	StandardhorseRR>0,8021	QTc	AvgQTc	AvgQTcms	AvgQtpeak	AvgQtpeakms	Tptend	Tptendavg	TpTendavg(ms)	Bazett
Gendarm	8	1	12	3	2	40	200	10	11:00	22	22	1	11:01:28	33,90	1,77	1769,91	419	461	537	0,537	0,5278	527,8	0,498886995	0,481104305	0,471904305	471,9043048	0,4636	463,6	0,076	0,0642	64,2	0,090650361
Gendarm	8	1	12	3	2	40	200	10	12:00	23	23	1	12:01:03	32,90	1,82	1823,71	416	468	527	0,527	0,5308	530,8	0,502792636	0,467198664	0,470998664	470,9986642	0,4694	469,4	0,059	0,0614	61,4	0,092540739
Remus	9	1	22	1	2	40	200	10	13:00	0	0	1	13:00:29	34,20	1,75	1754,39	384	435	505	0,505	0,4968	496,8	0,497759841	0,450231459	0,442031459	442,0314589	0,4316	431,6	0,07	0,0652	65,2	0,084951008
Remus	9	1	22	1	2	40	200	10	14:00	1	1	1	14:02:20	42,90	1,40	1398,60	372	428	493	0,493	0,5026	502,6	0,471929882	0,464061418	0,473661418	473,6614185	0,4306	430,6	0,065	0,072	72	0,07673506
Remus	9	1	22	1	2	40	200	10	15:00	2	2	1	15:02:26	39,60	1,52	1515,15	379	428	492	0,492	0,493	493	0,48039142	0,45459988	0,45559988	455,59988	0,428	428	0,064	0,065	65	0,078342843
Remus	9	1	22	1	2	40	200	10	16:00	3	3	1	16:00:00	42,80	1,40	1401,87	357	421	490	0,49	0,4958	495,8	0,472167121	0,460824179	0,466624179	466,6241791	0,4234	423,4	0,069	0,0724	72,4	0,075785241
Remus	9	1	22	1	2	40	200	10	17:00	4	4	1	17:01:27	38,50	1,56	1558,44	374	424	487	0,487	0,4888	488,8	0,483534277	0,446457023	0,448257023	448,2570229	0,427	427	0,063	0,0618	61,8	0,078777253
Remus	9	1	22	1	2	40	200	10	18:00	5	5	1	18:00:10	39,90	1,50	1503,76	372	421	492	0,492	0,493	493	0,479564352	0,455426948	0,456426948	456,4269477	0,4234	423,4	0,071	0,0696	69,6	0,078047765
Remus	9	1	22	1	2	40	200	10	19:00	6	6	1	19:01:32	35,70	1,68	1680,67	367	426	485	0,485	0,4924	492,4	0,492408227	0,435583073	0,442983073	442,9830733	0,4258	425,8	0,059	0,0666	66,6	0,082410763
Remus	9	1	22	1	2	40	200	10	20:00	7	7	1	19:58:54	39,50	1,52	1518,99	369	418	485	0,485	0,4838	483,8	0,480669901	0,447321399	0,446121399	446,121399	0,421	421	0,067	0,0628	62,8	0,076978123
Remus	9	1	22	1	2	40	200	10	21:00	8	8	1	20:58:34	38,70	1,55	1550,39	372	419	485	0,485	0,4796	479,6	0,48294956	0,44504174	0,43964174	439,6417405	0,42	420	0,066	0,0596	59,6	0,077094553
Remus	9	1	22	1	2	40	200	10	22:00	9	9	1	22:00:53	34,20	1,75	1754,39	374	418	482	0,482	0,485	485	0,497759841	0,427231459	0,430231459	430,2314589	0,4232	423,2	0,064	0,0618	61,8	0,08293325
Remus	9	1	22	1	2	40	200	10	23:00	10	10	1	23:00:16	38,60	1,55	1554,40	378	428	500	0,5	0,4966	496,6	0,483241161	0,459750139	0,456350139	456,3501391	0,4294	429,4	0,072	0,0672	67,2	0,079930598
Remus	9	1	22	1	2	40	200	10	00:00	11	11	1	00:03:05	35,10	1,71	1709,40	374	421	500	0,5	0,4898	489,8	0,494493984	0,448497316	0,438297316	438,2973159	0,4228	422,8	0,079	0,067	67	0,08267329
Remus	9	1	22	1	2	40	200	10	01:00	12	12	1	01:01:43	38,00	1,58	1578,95	367	414	478	0,478	0,4776	477,6	0,485022999	0,435968301	0,435568301	435,5683011	0,4148	414,8	0,064	0,0628	62,8	0,077476951
Remus	9	1	22	1	2	40	200	10	02:00	13	13	1	02:00:31	38,20	1,57	1570,68	369	419	478	0,478	0,4782	478,2	0,484422834	0,436568466	0,436768466	436,7684664	0,4198	419,8	0,059	0,0584	58,4	0,077370943
Remus	9	1	22	1	2	40	200	10	03:00	14	14	1	02:59:58	34,70	1,73	1729,11	371	423	485	0,485	0,481	481	0,495924561	0,432066739	0,428066739	428,0667388	0,419	419	0,062	0,062	62	0,08165454
Remus	9	1	22	1	2	40	200	10	04:00	15	15	1	04:00:51	34,20	1,75	1754,39	376	426	502	0,502	0,4942	494,2	0,497759841	0,447231459	0,439431459	439,4314589	0,4244	424,4	0,076	0,0698	69,8	0,084506417
Remus	9	1	22	1	2	40	200	10	05:00	16	16	1	05:00:07	35,70	1,68	1680,67	371	421	485	0,485	0,488	488	0,492408227	0,435583073	0,438583073	438,5830733	0,4258	425,8	0,064	0,0622	62,2	0,081674355
Remus	9	1	22	1	2	40	200	10	06:00	17	17	1	06:04:28	37,10	1,62	1617,25	369	421	493	0,493	0,4892	489,2	0,487803819	0,448187481	0,444387481	444,3874811	0,4216	421,6	0,072	0,0676	67,6	0,080315523
Remus	9	1	22	1	2	40	200	10	07:00	18	18	1	07:00:42	36,90	1,63	1626,02	376	424	488	0,488	0,4954	495,4	0,4884402	0,4425511	0,4499511	449,9510995	0,4262	426,2	0,064	0,0692	69,2	0,08155354
Remus	9	1	22	1	2	40	200	10	08:00	19	19	1	08:01:47	33,40	1,80	1796,41	384	430	498	0,498	0,4952	495,2	0,500810582	0,440180718	0,437380718	437,3807183	0,4292	429,2	0,068	0,066	66	0,085685513
Remus	9	1	22	1	2	40	200	10	09:00	20	20	1	09:00:23	35,60	1,69	1685,39	378	426	502	0,502	0,4924	492,4	0,492750971	0,452240329	0,442640329	442,6403294	0,425	425	0,076	0,0674	67,4	0,082526428
Remus	9	1	22	1	2	40	200	10	10:00	21	21	1	10:00:39	32,70	1,83	1834,86	383	433	500	0,5	0,5034	503,4	0,503602429	0,439388871	0,442788871	442,7888708	0,434	434	0,067	0,0694	69,4	0,08803175
Remus	9	1	22	1	2	40	200	10	11:00	22	22	1	10:59:01	36,00	1,67	1666,67	379	426	493	0,493	0,492	492	0,49139142	0,44459988	0,44359988	443,59988	0,4258	425,8	0,067	0,0662	66,2	0,082
Remus	9	1	22	1	2	40	200	10	12:00	23	23	1	11:59:50	36,90	1,63	1626,02	378	428	493	0,493	0,4956	495,6	0,4884402	0,4475511	0,4501511	450,1510995	0,428	428	0,065	0,0676	67,6	0,081586465
Remus	9	1	22	2	2	40	200	10	13:00	0	0	1	12:59:09	37,60	1,60	1595,74	369	421	473	0,473	0,4776	477,6	0,486242484	0,429748816	0,434348816	434,3488162	0,4218	421,8	0,052	0,0558	55,8	0,077887972
Remus	9	1	22	2	2	40	200	10	14:00	1	1	1	14:00:19	35,30	1,70	1699,72	374	419	478	0,478	0,479	479	0,493790853	0,427200447	0,428200447	428,2004466	0,4194	419,4	0,059	0,0596	59,6	0,080620996
Remus	9	1	22	2	2	40	200	10	15:00	2	2	1	15:01:39	43,60	1,38	1376,15	367	416	480	0,48	0,4762	476,2	0,470299677	0,452691623	0,448891623	448,8916231	0,4128	412,8	0,064	0,0634	63,4	0,072118411
Remus	9	1	22	2	2	40	200	10	16:00	3	3	1	16:01:19	34,50	1,74	1739,13	372	421	475	0,475	0,477	477	0,49665229	0,42133901	0,42333901	423,3390104	0,4186	418,6	0,054	0,0584	58,4	0,081209873
Remus	9	1	22	2	2	40	200	10	17:00	4	4	1	17:02:21	37,70	1,59	1591,51	366	414	477	0,477	0,476	476	0,485935187	0,434056113	0,433056113	433,0561134	0,4114	411,4	0,063	0,0646	64,6	0,077524019
Remus	9	1	22	2	2	40	200	10	18:00	5	5	1	18:02:08	35,20	1,70	1704,55	359	411	482	0,482	0,4756	475,6	0,49414142	0,43084988	0,42444988	424,44988	0,4134	413,4	0,071	0,0622	62,2	0,080162364
Remus	9	1	22	2	2	40	200	10	19:00	6	6	1	18:59:28	35,50	1,69	1690,14	366	416	478	0,478	0,4712	471,2	0,493095645	0,427895655	0,421095655	421,0956546	0,4156	415,6	0,062	0,0556	55,6	0,079084451
Remus	9	1	22	2	2	40	200	10	20:00	7	7	1	20:03:23	38,30	1,57	1566,58	366	414	480	0,48	0,4794	479,4	0,484125101	0,438866199	0,438266199	438,2661985	0,4138	413,8	0,066	0,0656	65,6	0,077463772
Remus	9	1	22	2	2	40	200	10	21:00	8	8	1	21:00:10	34,60	1,73	1734,10	362	411	468	0,468	0,475	475	0,496287374	0,414703926	0,421703926	421,7039262	0,4138	413,8	0,057	0,0612	61,2	0,080752423
Remus	9	1	22	2	2	40	200	10	22:00	9	9	1	21:59:28	39,40	1,52	1522,84	366	409	478	0,478	0,4722	472,2	0,480949796	0,440041504	0,434241504	434,2415044	0,4074	407,4	0,069	0,0648	64,8	0,075227715
Remus	9	1	22	2	2	40	200	10	23:00	10	10	1	23:01:07	34,90	1,72	1719,20	364	411	466	0,466	0,4676	467,6	0,495205174	0,413786126	0,415386126	415,3861264	0,41	410	0,055	0,0576	57,6	0,079151981
Remus	9	1	22	2	2	40	200	10	00:00	11	11	1	23:59:46	37,70	1,59	1591,51	531	404	451	0,451	0,453	453	0,485935187	0,408056113	0,410056113	410,0561134	0,4012	401,2	0,047	0,0518	51,8	0,07377811
Remus	9	1	22	2	2	40	200	10	01:00	12	12	1	00:58:44	36,80	1,63	1630,43	359	404	468	0,468	0,4762	476,2	0,488760985	0,422230315	0,430430315	430,4303148	0,4068	406,8	0,064	0,0694	69,4	0,078499245
Remus	9	1	22	2	2	40	200	10	02:00	13	13	1	02:01:21	35,10	1,71	1709,40	366	419	475	0,475	0,477	477	0,494493984	0,423497316	0,425497316	425,4973159	0,4178	417,8	0,056	0,0592	59,2	0,08051278
Remus	9	1	22	2	2	40	200	10	03:00	14	14	1	03:02:39	34,90	1,72	1719,20	367	416	480	0,48	0,4894	489,4	0,495205174	0,427786126	0,437186126	437,1861264	0,418	418	0,064	0,0714	71,4	0,082842129
Remus	9	1	22	2	2	40	200	10	04:00	15	15	1	03:59:37	34,10	1,76	1759,53	364	413	475	0,475	0,4784	478,4	0,498133355	0,419857945	0,423257945	423,2579445	0,4142	414,2	0,062	0,0642	64,2	0,081924534
Remus	9	1	22	2	2	40	200	10	05:00	16	16	1	05:01:07	36,10	1,66	1662,05	374	416	483	0,483	0,4798	479,8	0,49105624	0,43493506	0,43173506	431,7350601	0,415	415	0,067	0,0648	64,8	0,079855833
Remus	9	1	22	2	2	40	200	10	06:00	17	17	1	06:01:22	36,90	1,63	1626,02	372	421	488	0,488	0,4836	483,6	0,4884402	0,4425511	0,4381511	438,1510995	0,4194	419,4	0,067	0,0642	64,2	0,079611005
Remus	9	1	22	2	2	40	200	10	07:00	18	18	1	07:02:19	35,10	1,71	1709,40	374	418	470	0,47	0,478	478	0,494493984	0,418497316	0,426497316	426,4973159	0,4208	420,8	0,052	0,0572	57,2	0,08068157
Remus	9	1	22	2	2	40	200	10	08:00	19	19	1	08:02:28	33,60	1,79	1785,71	379	423	475	0,475	0,4784	478,4	0,500034277	0,417957023	0,421357023	421,3570229	0,4236	423,6	0,052	0,0548	54,8	0,082531841
Remus	9	1	22	2	2	40	200	10	09:00	20	20	1	08:56:33	37,40	1,60	1604,28	372	426	493	0,493	0,4922	492,2	0,486862008	0,449129292	0,448329292	448,3292918	0,4254	425,4	0,067	0,0668	66,8	0,080483306
Remus	9	1	22	2	2	40	200	10	10:00	21	21	1	10:01:36	32,90	1,82	1823,71	379	426	493	0,493	0,4916	491,6	0,502792636	0,433198664	0,431798664	431,7986642	0,4292	429,2	0,067	0,0624	62,4	0,085706533
Remus	9	1	22	2	2	40	200	10	11:00	22	22	1	11:01:00	35,60	1,69	1685,39	386	433	502	0,502	0,495	495	0,492750971	0,452240329	0,445240329	445,2403294	0,4302	430,2	0,069	0,0648	64,8	0,082962188
Remus	9	1	22	2	2	40	200	10	12:00	23	23	1	12:02:20	36,60	1,64	1639,34	378	423	500	0,5	0,487	487	0,489407813	0,453583487	0,440583487	440,5834866	0,424	424	0,077	0,063	63	0,080498617
Remus	9	1	22	3	2	40	200	10	13:00	0	0	1	12:59:08	35,10	1,71	1709,40	391	443	502	0,502	0,502	502	0,494493984	0,450497316	0,450497316	450,4973159	0,4406	440,6	0,059	0,0614	61,4	0,084732527
Remus	9	1	22	3	2	40	200	10	14:00	1	1	1	14:02:25	33,70	1,78	1780,42	388	435	500	0,5	0,4976	497,6	0,49964958	0,44334172	0,44094172	440,9417198	0,4358	435,8	0,065	0,0618	61,8	0,085716696
Remus	9	1	22	3	2	40	200	10	15:00	2	2	1	15:04:14	38,70	1,55	1550,39	383	435	490	0,49	0,4994	499,4	0,48294956	0,45004174	0,45944174	459,4417405	0,4344	434,4	0,055	0,065	65	0,080277355
Remus	9	1	22	3	2	40	200	10	16:00	3	3	1	15:59:54	39,60	1,52	1515,15	379	423	492	0,492	0,486	486	0,48039142	0,45459988	0,44859988	448,59988	0,4216	421,6	0,069	0,0644	64,4	0,07723047
Remus	9	1	22	3	2	40	200	10	17:00	4	4	1	17:02:37	35,50	1,69	1690,14	378	426	485	0,485	0,4838	483,8	0,493095645	0,434895655	0,433695655	433,6956546	0,4264	426,4	0,059	0,0574	57,4	0,081199188
Remus	9	1	22	3	2	40	200	10	18:00	5	5	1	17:59:48	39,50	1,52	1518,99	376	421	488	0,488	0,4896	489,6	0,480669901	0,450321399	0,451921399	451,921399	0,427	427	0,067	0,0626	62,6	0,077900969
Remus	9	1	22	3	2	40	200	10	19:00	6	6	1	19:00:04	35,30	1,70	1699,72	372	418	480	0,48	0,484	484	0,493790853	0,429200447	0,433200447	433,2004466	0,4214	421,4	0,062	0,0626	62,6	0,081462552
Remus	9	1	22	3	2	40	200	10	20:00	7	7	1	20:01:20	38,90	1,54	1542,42	369	419	480	0,48	0,4844	484,4	0,482370854	0,440620446	0,445020446	445,0204456	0,418	418	0,061	0,0664	66,4	0,077665713
Remus	9	1	22	3	2	40	200	10	21:00	8	8	1	20:59:52	34,50	1,74	1739,13	366	416	480	0,48	0,4728	472,8	0,49665229	0,42633901	0,41913901	419,1390104	0,4148	414,8	0,064	0,058	58	0,080494818
Remus	9	1	22	3	2	40	200	10	22:00	9	9	1	21:59:33	34,60	1,73	1734,10	374	423	480	0,48	0,4824	482,4	0,496287374	0,426703926	0,429103926	429,1039262	0,4196	419,6	0,057	0,0628	62,8	0,08201046
Remus	9	1	22	3	2	40	200	10	23:00	10	10	1	23:00:13	38,00	1,58	1578,95	374	424	487	0,487	0,4892	489,2	0,485022999	0,444968301	0,447168301	447,1683011	0,4232	423,2	0,063	0,066	66	0,079358719
Remus	9	1	22	3	2	40	200	10	01:00	12	12	1	01:00:25	35,10	1,71	1709,40	367	416	482	0,482	0,4748	474,8	0,494493984	0,430497316	0,423297316	423,2973159	0,414	414	0,066	0,0608	60,8	0,080141442
Remus	9	1	22	3	2	40	200	10	02:00	13	13	1	01:58:58	36,40	1,65	1648,35	376	424	492	0,492	0,4938	493,8	0,49006175	0,44492955	0,44672955	446,7295503	0,4264	426,4	0,068	0,0674	67,4	0,081846553
Remus	9	1	22	3	2	40	200	10	03:00	14	14	1	03:00:50	37,90	1,58	1583,11	369	418	490	0,49	0,489	489	0,485325457	0,447665843	0,446665843	446,6658431	0,4238	423,8	0,072	0,0652	65,2	0,079430858
Remus	9	1	22	3	2	40	200	10	04:00	15	15	1	04:01:44	35,60	1,69	1685,39	383	435	482	0,482	0,4836	483,6	0,492750971	0,432240329	0,433840329	433,8403294	0,435	435	0,047	0,0486	48,6	0,081051544
Remus	9	1	22	3	2	40	200	10	05:00	16	16	1	05:00:36	32,80	1,83	1829,27	388	441	498	0,498	0,5024	502,4	0,503196298	0,437795002	0,442195002	442,195002	0,439	439	0,057	0,0634	63,4	0,087722845
Remus	9	1	22	3	2	40	200	10	06:00	17	17	1	06:00:23	39,70	1,51	1511,34	376	426	492	0,492	0,4966	496,6	0,480114342	0,454876958	0,459476958	459,4769581	0,4276	427,6	0,066	0,069	69	0,078815469
Remus	9	1	22	3	2	40	200	10	07:00	18	18	1	07:03:00	37,30	1,61	1608,58	376	426	490	0,49	0,4938	493,8	0,487174262	0,445817038	0,449617038	449,6170382	0,4266	426,6	0,064	0,0672	67,2	0,080853099
Remus	9	1	22	3	2	40	200	10	08:00	19	19	1	08:00:40	33,40	1,80	1796,41	384	438	492	0,492	0,4926	492,6	0,500810582	0,434180718	0,434780718	434,7807183	0,438	438	0,054	0,0546	54,6	0,08523563
Remus	9	1	22	3	2	40	200	10	09:00	20	20	1	09:03:28	36,40	1,65	1648,35	384	433	495	0,495	0,4948	494,8	0,49006175	0,44792955	0,44772955	447,7295503	0,43	430	0,062	0,0648	64,8	0,082012301
Remus	9	1	22	3	2	40	200	10	10:00	21	21	1	09:59:38	32,50	1,85	1846,15	383	431	495	0,495	0,4908	490,8	0,504422189	0,433569111	0,429369111	429,3691108	0,4316	431,6	0,064	0,0592	59,2	0,086092015
Remus	9	1	22	3	2	40	200	10	11:00	22	22	1	10:59:56	36,90	1,63	1626,02	372	423	480	0,48	0,4886	488,6	0,4884402	0,4345511	0,4431511	443,1510995	0,42	420	0,057	0,0686	68,6	0,080434113
Remus	9	1	22	3	2	40	200	10	12:00	23	23	1	12:00:29	33,30	1,80	1801,80	391	445	502	0,502	0,504	504	0,501202231	0,443789069	0,445789069	445,7890692	0,4444	444,4	0,057	0,0596	59,6	0,087339041
Kemal	10	1	9	1	2	40	200	10	13:00	0	0	1	13:02:05	41,70	1,44	1438,85		477	550	0,55	0,5516	551,6	0,474851852	0,518139448	0,519739448	519,7394483	0,4744	474,4	0,073	0,0772	77,2	0,085419344
Kemal	10	1	9	1	2	40	200	10	14:00	1	1	1	14:02:12	39,00	1,54	1538,46		488	564	0,564	0,5602	560,2	0,482083728	0,524907572	0,521107572	521,1075723	0,4866	486,6	0,076	0,0736	73,6	0,089703792
Kemal	10	1	9	1	2	40	200	10	15:00	2	2	1	15:00:05	40,30	1,49	1488,83		477	549	0,549	0,5474	547,4	0,47848075	0,51351055	0,51191055	511,91055	0,4718	471,8	0,072	0,0756	75,6	0,086228786
Kemal	10	1	9	1	2	40	200	10	16:00	3	3	1	16:01:33	40,20	1,49	1492,54		453	535	0,535	0,5308	530,8	0,478749629	0,499241671	0,495041671	495,041671	0,454	454	0,082	0,0768	76,8	0,083717816
Kemal	10	1	9	1	2	40	200	10	17:00	4	4	1	17:00:21	39,20	1,53	1530,61		450	517	0,517	0,5218	521,8	0,481513869	0,478477431	0,483277431	483,277431	0,4518	451,8	0,067	0,07	70	0,083341448
Kemal	10	1	9	1	2	40	200	10	18:00	5	5	1	17:59:58	41,80	1,44	1435,41		435	503	0,503	0,517	517	0,474601946	0,471389354	0,485389354	485,3893537	0,4366	436,6	0,068	0,0804	80,4	0,079965453
Kemal	10	1	9	1	2	40	200	10	19:00	6	6	1	19:00:57	40,40	1,49	1485,15		438	515	0,515	0,516	516	0,478213202	0,479778098	0,480778098	480,7780978	0,4394	439,4	0,077	0,0766	76,6	0,081181864

Horse	No	Stable	Age	Day	Gender	QTgain	QTfeed	HRfeed	Time	timex	tidxcopy	No	EKGtime	HR	RR	RRms	QTpeak1	Qtpeak2	QT	Qts	AvgQT	AvgQTms	StandardhorseRR>0,8021	QTc	AvgQTc	AvgQTcms	AvgQtpeak	AvgQtpeakms	Tptend	Tptendavg	TpTendavg(ms)	Bazett
Kemal	10	1	9	1	2	40	200	10	20:00	7	7	1	20:02:06	41,20	1,46	1456,31		441	527	0,527	0,5256	525,6	0,476119575	0,493871725	0,492471725	492,4717247	0,4426	442,6	0,086	0,083	83	0,081885452
Kemal	10	1	9	1	2	40	200	10	21:00	8	8	1	21:00:11	37,70	1,59	1591,51		461	542	0,542	0,5402	540,2	0,485935187	0,499056113	0,497256113	497,2561134	0,4552	455,2	0,081	0,085	85	0,087979989
Kemal	10	1	9	1	2	40	200	10	22:00	9	9	1	22:03:31	39,40	1,52	1522,84		441	523	0,523	0,5212	521,2	0,480949796	0,485041504	0,483241504	483,2415044	0,4418	441,8	0,082	0,0794	79,4	0,083034064
Kemal	10	1	9	1	2	40	200	10	23:00	10	10	1	23:01:33	37,20	1,61	1612,90		446	527	0,527	0,5292	529,2	0,487488194	0,482503106	0,484703106	484,7031058	0,446	446	0,081	0,0832	83,2	0,086765758
Kemal	10	1	9	1	2	40	200	10	00:00	11	11	1	00:01:37	38,10	1,57	1574,80		453	544	0,544	0,5326	532,6	0,484722129	0,502269171	0,490869171	490,8691713	0,4508	450,8	0,091	0,0818	81,8	0,08628567
Kemal	10	1	9	1	2	40	200	10	01:00	12	12	1	01:00:19	37,40	1,60	1604,28		450	534	0,534	0,5306	530,6	0,486862008	0,490129292	0,486729292	486,7292918	0,4504	450,4	0,084	0,0802	80,2	0,086762378
Kemal	10	1	9	1	2	40	200	10	02:00	13	13	1	02:00:17	34,60	1,73	1734,10		458	540	0,54	0,5348	534,8	0,496287374	0,486703926	0,481503926	481,5039262	0,4568	456,8	0,082	0,078	78	0,090918728
Kemal	10	1	9	1	2	40	200	10	03:00	14	14	1	03:03:13	41,70	1,44	1438,85		431	523	0,523	0,5194	519,4	0,474851852	0,491139448	0,487539448	487,5394483	0,4328	432,8	0,092	0,0866	86,6	0,080432935
Kemal	10	1	9	1	2	40	200	10	04:00	15	15	1	03:59:28	34,40	1,74	1744,19		468	552	0,552	0,5552	555,2	0,497019327	0,497971973	0,501171973	501,171973	0,4708	470,8	0,084	0,0844	84,4	0,094660814
Kemal	10	1	9	1	2	40	200	10	05:00	16	16	1	05:00:02	34,50	1,74	1739,13		471	545	0,545	0,5474	547,4	0,49665229	0,49133901	0,49373901	493,7390104	0,4744	474,4	0,074	0,073	73	0,093195565
Kemal	10	1	9	1	2	40	200	10	06:00	17	17	1	06:00:03	37,00	1,62	1621,62		471	552	0,552	0,5524	552,4	0,48812115	0,50687015	0,50727015	507,2701503	0,4722	472,2	0,081	0,0802	80,2	0,090814001
Kemal	10	1	9	1	2	40	200	10	07:00	18	18	1	06:59:29	38,80	1,55	1546,39		455	554	0,554	0,5474	547,4	0,482659461	0,514331839	0,507731839	507,7318388	0,4546	454,6	0,099	0,0928	92,8	0,087879774
Kemal	10	1	9	1	2	40	200	10	08:00	19	19	1	08:00:39	33,60	1,79	1785,71		473	559	0,559	0,5542	554,2	0,500034277	0,501957023	0,497157023	497,1570229	0,473	473	0,086	0,0812	81,2	0,095608583
Kemal	10	1	9	1	2	40	200	10	09:00	20	20	1	08:59:51	37,20	1,61	1612,90		456	557	0,557	0,5434	543,4	0,487488194	0,512503106	0,498903106	498,9031058	0,456	456	0,101	0,0874	87,4	0,08909394
Kemal	10	1	9	1	2	40	200	10	10:00	21	21	1	10:01:46	40,50	1,48	1481,48		448	534	0,534	0,535	535	0,477946976	0,499044324	0,500044324	500,0443244	0,4484	448,4	0,086	0,0866	86,6	0,08406714
Kemal	10	1	9	1	2	40	200	10	11:00	22	22	1	11:00:24	30,80	1,95	1948,05	421	478	545	0,545	0,5512	551,2	0,511819991	0,476171309	0,482371309	482,3713086	0,48	480	0,067	0,0712	71,2	0,099319346
Kemal	10	1	9	1	2	40	200	10	12:00	23	23	1	12:00:54	33,00	1,82	1818,18		473	554	0,554	0,5562	556,2	0,50239142	0,49459988	0,49679988	496,79988	0,473	473	0,081	0,0832	83,2	0,096821992
Kemal	10	1	9	2	2	40	200	10	13:00	0	0	1	12:58:27	41,10	1,46	1459,85		436	503	0,503	0,498	498	0,476376821	0,469614479	0,464614479	464,6144785	0,4352	435,2	0,067	0,0628	62,8	0,07767986
Kemal	10	1	9	2	2	40	200	10	14:00	1	1	1	14:00:05	39,60	1,52	1515,15		458	525	0,525	0,5312	531,2	0,48039142	0,48759988	0,49379988	493,79988	0,4562	456,2	0,067	0,075	75	0,084413221
Kemal	10	1	9	2	2	40	200	10	15:00	2	2	1	14:59:22	39,90	1,50	1503,76		458	535	0,535	0,5346	534,6	0,479564352	0,498426948	0,498026948	498,0269477	0,4566	456,6	0,077	0,078	78	0,08463354
Kemal	10	1	9	2	2	40	200	10	16:00	3	3	1	16:01:38	34,00	1,76	1764,71	409	455	535	0,535	0,5274	527,4	0,498509067	0,479482233	0,471882233	471,8822329	0,4596	459,6	0,08	0,0678	67,8	0,090448354
Kemal	10	1	9	2	2	40	200	10	17:00	4	4	1	17:03:12	38,50	1,56	1558,44		453	527	0,527	0,5264	526,4	0,483534277	0,486457023	0,485857023	485,8570229	0,4538	453,8	0,074	0,0726	72,6	0,084837042
Kemal	10	1	9	2	2	40	200	10	18:00	5	5	1	18:00:23	36,20	1,66	1657,46		465	552	0,552	0,5414	541,4	0,490722912	0,504268388	0,493668388	493,6683883	0,4648	464,8	0,087	0,0766	76,6	0,089983725
Kemal	10	1	9	2	2	40	200	10	19:00	6	6	1	19:01:19	35,10	1,71	1709,40		460	518	0,518	0,5226	522,6	0,494493984	0,466497316	0,471097316	471,0973159	0,4602	460,2	0,058	0,0624	62,4	0,088209599
Kemal	10	1	9	2	2	40	200	10	20:00	7	7	1	20:01:33	37,60	1,60	1595,74		446	520	0,52	0,5232	523,2	0,486242484	0,476748816	0,479948816	479,9488162	0,4478	447,8	0,074	0,0754	75,4	0,085324512
Kemal	10	1	9	2	2	40	200	10	21:00	8	8	1	20:59:47	38,00	1,58	1578,95		443	520	0,52	0,5254	525,4	0,485022999	0,477968301	0,483368301	483,3683011	0,4464	446,4	0,077	0,079	79	0,085231135
Kemal	10	1	9	2	2	40	200	10	22:00	9	9	1	22:00:58	37,10	1,62	1617,25		455	534	0,534	0,5328	532,8	0,487803819	0,489187481	0,487987481	487,9874811	0,455	455	0,079	0,0778	77,8	0,087473653
Kemal	10	1	9	2	2	40	200	10	23:00	10	10	1	22:58:16	36,60	1,64	1639,34	401	448	515	0,515	0,5112	511,2	0,489407813	0,468583487	0,464783487	464,7834866	0,4516	451,6	0,067	0,0596	59,6	0,084498754
Kemal	10	1	9	2	2	40	200	10	00:00	11	11	1	00:00:33	33,60	1,79	1785,71		458	540	0,54	0,5312	531,2	0,500034277	0,482957023	0,474157023	474,1570229	0,4566	456,6	0,082	0,0746	74,6	0,091640706
Kemal	10	1	9	2	2	40	200	10	01:00	12	12	1	01:00:22	34,40	1,74	1744,19		460	547	0,547	0,5366	536,6	0,497019327	0,492971973	0,482571973	482,571973	0,4608	460,8	0,087	0,0758	75,8	0,091489541
Kemal	10	1	9	2	2	40	200	10	02:00	13	13	1	02:01:08	38,00	1,58	1578,95	376	428	495	0,495	0,4956	495,6	0,485022999	0,452968301	0,453568301	453,5683011	0,4296	429,6	0,067	0,066	66	0,080396936
Kemal	10	1	9	2	2	40	200	10	03:00	14	14	1	02:59:57	35,20	1,70	1704,55		450	517	0,517	0,5184	518,4	0,49414142	0,46584988	0,46724988	467,24988	0,4494	449,4	0,067	0,069	69	0,087376302
Kemal	10	1	9	2	2	40	200	10	04:00	15	15	1	04:00:57	38,50	1,56	1558,44		460	544	0,544	0,5438	543,8	0,483534277	0,503457023	0,503257023	503,2570229	0,4602	460,2	0,084	0,0836	83,6	0,087641306
Kemal	10	1	9	2	2	40	200	10	05:00	16	16	1	04:59:53	32,90	1,82	1823,71		485	552	0,552	0,5522	552,2	0,502792636	0,492198664	0,492398664	492,3986642	0,4812	481,2	0,067	0,071	71	0,096271658
Kemal	10	1	9	2	2	40	200	10	06:00	17	17	1	06:01:23	38,80	1,55	1546,39		465	547	0,547	0,5456	545,6	0,482659461	0,507331839	0,505931839	505,9318388	0,4656	465,6	0,082	0,08	80	0,087590801
Kemal	10	1	9	2	2	40	200	10	07:00	18	18	1	07:00:25	39,10	1,53	1534,53		461	545	0,545	0,5376	537,6	0,48179807	0,50619323	0,49879323	498,7932304	0,4602	460,2	0,084	0,0774	77,4	0,085974742
Kemal	10	1	9	2	2	40	200	10	08:00	19	19	1	07:59:51	37,30	1,61	1608,58		458	540	0,54	0,5396	539,6	0,487174262	0,495817038	0,495417038	495,4170382	0,4584	458,4	0,082	0,0812	81,2	0,088352232
Kemal	10	1	9	2	2	40	200	10	09:00	20	20	1	09:00:34	36,20	1,66	1657,46		456	535	0,535	0,5432	543,2	0,490722912	0,487268388	0,495468388	495,4683883	0,46	460	0,079	0,0832	83,2	0,090282895
Kemal	10	1	9	2	2	40	200	10	10:00	21	21	1	10:03:04	34,70	1,73	1729,11		460	545	0,545	0,5386	538,6	0,495924561	0,492066739	0,485666739	485,6667388	0,4594	459,4	0,085	0,0792	79,2	0,091432714
Kemal	10	1	9	2	2	40	200	10	11:00	22	22	1	11:00:14	31,80	1,89	1886,79		473	545	0,545	0,5462	546,2	0,507372552	0,480618748	0,481818748	481,8187479	0,4724	472,4	0,072	0,0738	73,8	0,096858588
Kemal	10	1	9	2	2	40	200	10	12:00	23	23	1	11:59:58	32,40	1,85	1851,85	423	477	549	0,549	0,5512	551,2	0,504835864	0,487155436	0,489355436	489,3554356	0,4772	477,2	0,072	0,074	74	0,096835969
Kemal	10	1	9	3	2	40	200	10	13:00	0	0	1	13:02:13	41,80	1,44	1435,41		441	530	0,53	0,5234	523,4	0,474601946	0,498389354	0,491789354	491,7893537	0,4414	441,4	0,089	0,082	82	0,080955354
Kemal	10	1	9	3	2	40	200	10	14:00	1	1	1	14:02:03	40,10	1,50	1496,26		443	523	0,523	0,5224	522,4	0,479019849	0,486971451	0,486371451	486,3714511	0,4432	443,2	0,08	0,0792	79,2	0,082495637
Kemal	10	1	9	3	2	40	200	10	15:00	2	2	1	15:04:07	43,30	1,39	1385,68		446	525	0,525	0,5248	524,8	0,470991882	0,496999418	0,496799418	496,7994181	0,4458	445,8	0,079	0,079	79	0,079753523
Kemal	10	1	9	3	2	40	200	10	16:00	3	3	1	16:00:18	34,90	1,72	1719,20	404	463	540	0,54	0,5344	534,4	0,495205174	0,487786126	0,482186126	482,1861264	0,4634	463,4	0,077	0,071	71	0,090459407
Kemal	10	1	9	3	2	40	200	10	17:00	4	4	1	17:00:10	42,40	1,42	1415,09		436	513	0,513	0,512	512	0,473127269	0,482864031	0,481864031	481,8640309	0,4336	433,6	0,077	0,0784	78,4	0,078629775
Kemal	10	1	9	3	2	40	200	10	18:00	5	5	1	17:58:47	34,20	1,75	1754,39	404	460	518	0,518	0,5248	524,8	0,497759841	0,463231459	0,470031459	470,0314589	0,4606	460,6	0,058	0,0642	64,2	0,089738907
Kemal	10	1	9	3	2	40	200	10	19:00	6	6	1	19:01:06	36,60	1,64	1639,34		446	515	0,515	0,5196	519,6	0,489407813	0,468583487	0,473183487	473,1834866	0,4464	446,4	0,069	0,0732	73,2	0,085887231
Kemal	10	1	9	3	2	40	200	10	20:00	7	7	1	20:01:09	42,80	1,40	1401,87		433	512	0,512	0,5122	512,2	0,472167121	0,482824179	0,483024179	483,0241791	0,433	433	0,079	0,0792	79,2	0,078292054
Kemal	10	1	9	3	2	40	200	10	21:00	8	8	1	21:00:55	38,40	1,56	1562,50		440	507	0,507	0,5068	506,8	0,48382892	0,46616238	0,46596238	465,96238	0,442	442	0,067	0,0648	64,8	0,081784498
Kemal	10	1	9	3	2	40	200	10	22:00	9	9	1	22:00:26	36,00	1,67	1666,67		451	530	0,53	0,526	526	0,49139142	0,48159988	0,47759988	477,59988	0,453	453	0,079	0,073	73	0,087666667
Kemal	10	1	9	3	2	40	200	10	23:00	10	10	1	23:00:47	35,60	1,69	1685,39		451	512	0,512	0,524	524	0,492750971	0,462240329	0,474240329	474,2403294	0,4508	450,8	0,061	0,0732	73,2	0,0878226
Kemal	10	1	9	3	2	40	200	10	00:00	11	11	1	23:57:41	36,30	1,65	1652,89		446	520	0,52	0,518	518	0,49039142	0,47259988	0,47059988	470,59988	0,4492	449,2	0,074	0,0688	68,8	0,085975844
Kemal	10	1	9	3	2	40	200	10	01:00	12	12	1	01:02:28	35,10	1,71	1709,40		445	518	0,518	0,5194	519,4	0,494493984	0,466497316	0,467897316	467,8973159	0,4456	445,6	0,073	0,0738	73,8	0,087669471
Kemal	10	1	9	3	2	40	200	10	02:00	13	13	1	02:02:58	37,70	1,59	1591,51	393	448	517	0,517	0,5128	512,8	0,485935187	0,474056113	0,469856113	469,8561134	0,448	448	0,069	0,0648	64,8	0,083517472
Kemal	10	1	9	3	2	40	200	10	03:00	14	14	1	03:00:53	35,00	1,71	1714,29	413	461	523	0,523	0,5276	527,6	0,494848563	0,471142737	0,475742737	475,7427371	0,4614	461,4	0,062	0,0662	66,2	0,089180677
Kemal	10	1	9	3	2	40	200	10	04:00	15	15	1	04:00:54	35,80	1,68	1675,98		461	525	0,525	0,5274	527,4	0,492067398	0,475923902	0,478323902	478,3239023	0,4612	461,2	0,064	0,0662	66,2	0,088145189
Kemal	10	1	9	3	2	40	200	10	05:00	16	16	1	05:01:09	36,50	1,64	1643,84		450	530	0,53	0,5342	534,2	0,489733886	0,483257414	0,487457414	487,4574142	0,4504	450,4	0,08	0,0838	83,8	0,088421413
Kemal	10	1	9	3	2	40	200	10	06:00	17	17	1	06:03:01	40,70	1,47	1474,20		453	535	0,535	0,5346	534,6	0,477418447	0,500572853	0,500172853	500,172853	0,453	453	0,082	0,0816	81,6	0,083797633
Kemal	10	1	9	3	2	40	200	10	07:00	18	18	1	06:59:46	36,40	1,65	1648,35		456	530	0,53	0,5362	536,2	0,49006175	0,48292955	0,48912955	489,1295503	0,4572	457,2	0,074	0,079	79	0,088874285
Kemal	10	1	9	3	2	40	200	10	08:00	19	19	1	08:00:33	37,50	1,60	1600,00		456	530	0,53	0,5342	534,2	0,48655142	0,48643988	0,49063988	490,63988	0,4554	455,4	0,074	0,0788	78,8	0,087234495
Kemal	10	1	9	3	2	40	200	10	09:00	20	20	1	08:58:31	32,00	1,88	1875,00	421	471	540	0,54	0,5408	540,8	0,50651642	0,47647488	0,47727488	477,27488	0,4712	471,2	0,069	0,0696	69,6	0,095600837
Kemal	10	1	9	3	2	40	200	10	10:00	21	21	1	09:58:07	38,40	1,56	1562,50		448	530	0,53	0,524	524	0,48382892	0,48916238	0,48316238	483,16238	0,4462	446,2	0,082	0,0778	77,8	0,084560136
Kemal	10	1	9	3	2	40	200	10	11:00	22	22	1	10:59:54	33,70	1,78	1780,42	401	461	542	0,542	0,5408	540,8	0,49964958	0,48534172	0,48414172	484,1417198	0,4656	465,6	0,081	0,0752	75,2	0,093158338
Kemal	10	1	9	3	2	40	200	10	12:00	23	23	1	12:00:37	33,40	1,80	1796,41	406	460	523	0,523	0,5314	531,4	0,500810582	0,465180718	0,473580718	473,5807183	0,461	461	0,063	0,0704	70,4	0,091949277
Jagel	11	1	10	1	2	40	200	10	13:00	0	0	1	12:59:42	34,80	1,72	1724,14	419	464	514	0,514	0,5116	511,6	0,495563834	0,461427466	0,459027466	459,0274662	0,4642	464,2	0,05	0,0474	47,4	0,086724322
Jagel	11	1	10	1	2	40	200	10	14:00	1	1	1	14:02:10	31,90	1,88	1880,88	424	469	514	0,514	0,515	515	0,506943144	0,450048156	0,451048156	451,0481559	0,4682	468,2	0,045	0,0468	46,8	0,091182582
Jagel	11	1	10	1	2	40	200	10	15:00	2	2	1	14:57:23	37,10	1,62	1617,25	414	454	508	0,508	0,5062	506,2	0,487803819	0,463187481	0,461387481	461,3874811	0,4526	452,6	0,054	0,0536	53,6	0,083106537
Jagel	11	1	10	1	2	40	200	10	16:00	3	3	1	15:58:55	36,00	1,67	1666,67	399	437	497	0,497	0,5	500	0,49139142	0,44859988	0,45159988	451,59988	0,4412	441,2	0,06	0,0588	58,8	0,083333333
Jagel	11	1	10	1	2	40	200	10	17:00	4	4	1	16:59:47	34,50	1,74	1739,13	399	439	489	0,489	0,4988	498,8	0,49665229	0,43533901	0,44513901	445,1390104	0,4408	440,8	0,05	0,058	58	0,084921352
Jagel	11	1	10	1	2	40	200	10	18:00	5	5	1	18:00:24	30,70	1,95	1954,40	415	459	506	0,506	0,5072	507,2	0,512280671	0,436710629	0,437910629	437,9106292	0,458	458	0,047	0,0492	49,2	0,091539821
Jagel	11	1	10	1	2	40	200	10	19:00	6	6	1	19:00:48	37,00	1,62	1621,62	394	436	503	0,503	0,4972	497,2	0,48812115	0,45787015	0,45207015	452,0701503	0,4372	437,2	0,067	0,06	60	0,081739176
Jagel	11	1	10	1	2	40	200	10	20:00	7	7	1	20:03:22	34,10	1,76	1759,53		457	529	0,529	0,5204	520,4	0,498133355	0,473857945	0,465257945	465,2579445	0,4568	456,8	0,072	0,0636	63,6	0,089116906
Jagel	11	1	10	1	2	40	200	10	21:00	8	8	1	20:58:48	37,10	1,62	1617,25	422	464	520	0,52	0,5212	521,2	0,487803819	0,475187481	0,476387481	476,3874811	0,4624	462,4	0,056	0,0588	58,8	0,085569196
Jagel	11	1	10	1	2	40	200	10	22:00	9	9	1	22:02:28	30,30	1,98	1980,20	425	471	517	0,517	0,531	531	0,514153796	0,445837504	0,459837504	459,8375038	0,4698	469,8	0,046	0,0612	61,2	0,096465764
Jagel	11	1	10	1	2	40	200	10	23:00	10	10	1	23:00:21	30,50	1,97	1967,21	432	474	529	0,529	0,5368	536,8	0,513211092	0,458780208	0,466580208	466,5802079	0,476	476	0,055	0,0608	60,8	0,097199177
Jagel	11	1	10	1	2	40	200	10	00:00	11	11	1	23:59:54	33,80	1,78	1775,15		464	534	0,534	0,528	528	0,49926716	0,47772414	0,47172414	471,7241404	0,4632	463,2	0,07	0,0648	64,8	0,090818761
Jagel	11	1	10	1	2	40	200	10	01:00	12	12	1	01:02:26	32,10	1,87	1869,16	425	469	538	0,538	0,5298	529,8	0,506092355	0,474898945	0,466698945	466,6989454	0,466	466	0,069	0,0638	63,8	0,093510297
Jagel	11	1	10	1	2	40	200	10	02:00	13	13	1	01:57:55	30,40	1,97	1973,68	436	476	550	0,55	0,5378	537,8	0,513680894	0,479310406	0,467110406	467,1104063	0,4742	474,2	0,074	0,0636	63,6	0,097540282
Jagel	11	1	10	1	2	40	200	10	04:00	15	15	1	04:00:55	29,00	2,07	2068,97	432	480	536	0,536	0,5378	537,8	0,520598317	0,458392983	0,460192983	460,1929834	0,4772	477,2	0,056	0,0606	60,6	0,099866953

Horse	No	Stable	Age	Day	Gender	QTgain	QTfeed	HRfeed	Time	timex	tidxcopy	No	EKGtime	HR	RR	RRms	QTpeak1	Qtpeak2	QT	Qts	AvgQT	AvgQTms	StandardhorseRR>0,8021	QTc	AvgQTc	AvgQTcms	AvgQtpeak	AvgQtpeakms	Tptend	Tptendavg	TpTendavg(ms)	Bazett
Jagel	11	1	10	1	2	40	200	10	05:00	16	16	1	05:00:04	33,60	1,79	1785,71	427	473	540	0,54	0,533	533	0,500034277	0,482957023	0,475957023	475,9570229	0,4698	469,8	0,067	0,0632	63,2	0,091951236
Jagel	11	1	10	1	2	40	200	10	06:00	17	17	1	06:00:32	31,60	1,90	1898,73		466	524	0,524	0,5296	529,6	0,508239521	0,458751779	0,464351779	464,3517787	0,467	467	0,058	0,0626	62,6	0,094211612
Jagel	11	1	10	1	2	40	200	10	07:00	18	18	1	07:00:19	33,20	1,81	1807,23		471	527	0,527	0,5314	531,4	0,501596239	0,468395061	0,472795061	472,7950607	0,4692	469,2	0,056	0,0622	62,2	0,092225816
Jagel	11	1	10	1	2	40	200	10	08:00	19	19	1	08:00:42	29,30	2,05	2047,78	425	467	536	0,536	0,5396	539,6	0,519060362	0,459930938	0,463530938	463,530938	0,4718	471,8	0,069	0,0678	67,8	0,099686909
Jagel	11	1	10	1	2	40	200	10	09:00	20	20	1	09:02:00	31,40	1,91	1910,83	425	467	534	0,534	0,5434	543,4	0,509117535	0,467873765	0,477273765	477,2737654	0,4716	471,6	0,067	0,0718	71,8	0,096973888
Jagel	11	1	10	1	2	40	200	10	10:00	21	21	1	10:00:51	27,30	2,20	2197,80	434	478	533	0,533	0,5366	536,6	0,52995186	0,44603944	0,44963944	449,6394404	0,4838	483,8	0,055	0,0528	52,8	0,10269974
Jagel	11	1	10	1	2	40	200	10	11:00	22	22	1	11:02:28	28,50	2,11	2105,26	418	464	517	0,517	0,5172	517,2	0,523233525	0,436757775	0,436957775	436,9577747	0,4676	467,6	0,053	0,0496	49,6	0,096880436
Jagel	11	1	10	1	2	40	200	10	12:00	23	23	1	12:01:03	30,50	1,97	1967,21	430	474	541	0,541	0,5388	538,8	0,513211092	0,470780208	0,468580208	468,5802079	0,4728	472,8	0,067	0,066	66	0,09756132
Jagel	11	1	10	2	2	40	200	10	13:00	0	0	1	12:57:48	35,70	1,68	1680,67		460	527	0,527	0,5264	526,4	0,492408227	0,477583073	0,476983073	476,9830733	0,4628	462,8	0,067	0,0636	63,6	0,08810119
Jagel	11	1	10	2	2	40	200	10	14:00	1	1	1	14:02:55	35,00	1,71	1714,29		471	538	0,538	0,5374	537,4	0,494848563	0,486142737	0,485542737	485,5427371	0,471	471	0,067	0,0664	66,4	0,090837179
Jagel	11	1	10	2	2	40	200	10	16:00	3	3	1	16:01:29	29,40	2,04	2040,82	436	476	527	0,527	0,5284	528,4	0,518554685	0,451436615	0,452836615	452,8366147	0,4762	476,2	0,051	0,0522	52,2	0,097451638
Jagel	11	1	10	2	2	40	200	10	17:00	4	4	1	17:01:31	33,30	1,80	1801,80	425	467	520	0,52	0,5284	528,4	0,501202231	0,461789069	0,470189069	470,1890692	0,4668	466,8	0,053	0,0616	61,6	0,09156736
Jagel	11	1	10	2	2	40	200	10	18:00	5	5	1	18:02:44	29,70	2,02	2020,20	429	471	529	0,529	0,5266	526,6	0,517058087	0,454933213	0,452533213	452,5332133	0,473	473	0,058	0,0536	53,6	0,09662792
Jagel	11	1	10	2	2	40	200	10	19:00	6	6	1	19:00:14	31,40	1,91	1910,83	434	473	534	0,534	0,534	534	0,509117535	0,467873765	0,467873765	467,8737654	0,473	473	0,061	0,061	61	0,095296386
Jagel	11	1	10	2	2	40	200	10	20:00	7	7	1	20:01:42	34,10	1,76	1759,53		448	503	0,503	0,5118	511,8	0,498133355	0,447857945	0,456657945	456,6579445	0,4542	454,2	0,055	0,0576	57,6	0,087644182
Jagel	11	1	10	2	2	40	200	10	21:00	8	8	1	21:02:14	37,60	1,60	1595,74		444	496	0,496	0,4992	499,2	0,486242484	0,452748816	0,455948816	455,9488162	0,4396	439,6	0,052	0,0596	59,6	0,081410544
Jagel	11	1	10	2	2	40	200	10	22:00	9	9	1	22:01:24	34,40	1,74	1744,19		455	526	0,526	0,5208	520,8	0,497019327	0,471971973	0,466771973	466,771973	0,4546	454,6	0,071	0,0662	66,2	0,088795663
Jagel	11	1	10	2	2	40	200	10	23:00	10	10	1	23:01:11	35,60	1,69	1685,39		450	519	0,519	0,5232	523,2	0,492750971	0,469240329	0,473440329	473,4403294	0,4514	451,4	0,069	0,0718	71,8	0,087688519
Jagel	11	1	10	2	2	40	200	10	00:00	11	11	1	00:00:32	32,50	1,85	1846,15	411	455	524	0,524	0,5254	525,4	0,504422189	0,462569111	0,463969111	463,9691108	0,4566	456,6	0,069	0,0688	68,8	0,092161257
Jagel	11	1	10	2	2	40	200	10	01:00	12	12	1	01:00:47	29,80	2,01	2013,42	422	466	522	0,522	0,5248	524,8	0,516565917	0,448425383	0,451225383	451,2253834	0,4672	467,2	0,056	0,0576	57,6	0,096135922
Jagel	11	1	10	2	2	40	200	10	02:00	13	13	1	01:58:26	36,30	1,65	1652,89	406	450	504	0,504	0,5086	508,6	0,49039142	0,45659988	0,46119988	461,19988	0,4516	451,6	0,054	0,057	57	0,084415664
Jagel	11	1	10	2	2	40	200	10	03:00	14	14	1	03:05:22	33,30	1,80	1801,80		441	510	0,51	0,5058	505,8	0,501202231	0,451789069	0,447589069	447,5890692	0,4402	440,2	0,069	0,0656	65,6	0,087650966
Jagel	11	1	10	2	2	40	200	10	04:00	15	15	1	04:00:24	35,60	1,69	1685,39	414	451	511	0,511	0,5114	511,4	0,492750971	0,461240329	0,461640329	461,6403294	0,4534	453,4	0,06	0,058	58	0,085710835
Jagel	11	1	10	2	2	40	200	10	05:00	16	16	1	05:00:28	28,00	2,14	2142,86	423	467	529	0,529	0,531	531	0,525962849	0,446028451	0,448028451	448,0284514	0,4714	471,4	0,062	0,0596	59,6	0,100349568
Jagel	11	1	10	2	2	40	200	10	06:00	17	17	1	06:01:44	34,00	1,76	1764,71		453	517	0,517	0,5126	512,6	0,498509067	0,461482233	0,457082233	457,0822329	0,4542	454,2	0,064	0,0584	58,4	0,087910175
Jagel	11	1	10	2	2	40	200	10	07:00	18	18	1	07:02:52	34,40	1,74	1744,19		450	515	0,515	0,5182	518,2	0,497019327	0,460971973	0,464171973	464,171973	0,4502	450,2	0,065	0,068	68	0,088352367
Jagel	11	1	10	2	2	40	200	10	08:00	19	19	1	08:00:20	30,90	1,94	1941,75	430	474	529	0,529	0,5316	531,6	0,511362294	0,460629006	0,463229006	463,2290062	0,4706	470,6	0,055	0,061	61	0,095632549
Jagel	11	1	10	2	2	40	200	10	09:00	20	20	1	09:01:11	31,30	1,92	1916,93	423	467	511	0,511	0,5114	511,4	0,509560749	0,444430551	0,444830551	444,8305509	0,4634	463,4	0,044	0,048	48	0,091408915
Jagel	11	1	10	2	2	40	200	10	10:00	21	21	1	10:00:51	30,30	1,98	1980,20	422	467	522	0,522	0,5258	525,8	0,514153796	0,450837504	0,454637504	454,6375038	0,469	469	0,055	0,0568	56,8	0,09552109
Jagel	11	1	10	2	2	40	200	10	11:00	22	22	1	10:59:14	32,80	1,83	1829,27		460	529	0,529	0,5282	528,2	0,503196298	0,468795002	0,467995002	467,995002	0,4624	462,4	0,069	0,0658	65,8	0,092227721
Jagel	11	1	10	2	2	40	200	10	12:00	23	23	1	12:01:25	32,80	1,83	1829,27		460	524	0,524	0,5244	524,4	0,503196298	0,463795002	0,464195002	464,195002	0,4632	463,2	0,064	0,0612	61,2	0,091564212
Jagel	11	1	10	3	2	40	200	10	13:00	0	0	1	13:03:16	38,50	1,56	1558,44		431	488	0,488	0,486	486	0,483534277	0,447457023	0,445457023	445,4570229	0,43	430	0,057	0,056	56	0,078325992
Jagel	11	1	10	3	2	40	200	10	14:00	1	1	1	13:59:40	32,80	1,83	1829,27	421	460	512	0,512	0,5148	514,8	0,503196298	0,451795002	0,454595002	454,595002	0,4632	463,2	0,052	0,0516	51,6	0,089887979
Jagel	11	1	10	3	2	40	200	10	15:00	2	2	1	15:03:21	36,50	1,64	1643,84	409	450	500	0,5	0,5064	506,4	0,489733886	0,453257414	0,459657414	459,6574142	0,4516	451,6	0,05	0,0548	54,8	0,083819924
Jagel	11	1	10	3	2	40	200	10	16:00	3	3	1	16:02:56	34,40	1,74	1744,19	409	450	510	0,51	0,507	507	0,497019327	0,455971973	0,452971973	452,971973	0,4484	448,4	0,06	0,0586	58,6	0,086442783
Jagel	11	1	10	3	2	40	200	10	17:00	4	4	1	17:03:29	38,50	1,56	1558,44	394	433	495	0,495	0,4942	494,2	0,483534277	0,454457023	0,453657023	453,6570229	0,4338	433,8	0,062	0,0604	60,4	0,079647542
Jagel	11	1	10	3	2	40	200	10	18:00	5	5	1	18:00:20	31,50	1,90	1904,76	418	463	522	0,522	0,5194	519,4	0,508677134	0,456314166	0,453714166	453,7141657	0,463	463	0,059	0,0564	56,4	0,092543659
Jagel	11	1	10	3	2	40	200	10	19:00	6	6	1	19:00:39	37,50	1,60	1600,00	394	440	488	0,488	0,4892	489,2	0,48655142	0,44443988	0,44563988	445,63988	0,4364	436,4	0,048	0,0528	52,8	0,079886025
Jagel	11	1	10	3	2	40	200	10	20:00	7	7	1	20:03:07	39,90	1,50	1503,76	393	431	497	0,497	0,4942	494,2	0,479564352	0,460426948	0,457626948	457,6269477	0,4338	433,8	0,066	0,0604	60,4	0,078237739
Jagel	11	1	10	3	2	40	200	10	21:00	8	8	1	20:57:38	33,80	1,78	1775,15	393	431	477	0,477	0,4846	484,6	0,49926716	0,42072414	0,42832414	428,3241404	0,4328	432,8	0,046	0,0518	51,8	0,083353734
Jagel	11	1	10	3	2	40	200	10	22:00	9	9	1	21:59:52	32,70	1,83	1834,86	416	455	515	0,515	0,5124	512,4	0,503602429	0,454388871	0,451788871	451,7888708	0,4544	454,4	0,06	0,058	58	0,089605619
Jagel	11	1	10	3	2	40	200	10	23:00	10	10	1	23:00:48	32,70	1,83	1834,86	411	453	510	0,51	0,5152	515,2	0,503602429	0,449388871	0,454588871	454,5888708	0,4538	453,8	0,057	0,0614	61,4	0,090095267
Jagel	11	1	10	3	2	40	200	10	00:00	11	11	1	00:00:23	34,10	1,76	1759,53		441	507	0,507	0,5048	504,8	0,498133355	0,451857945	0,449657945	449,6579445	0,4406	440,6	0,066	0,0642	64,2	0,086445453
Jagel	11	1	10	3	2	40	200	10	01:00	12	12	1	01:01:27	36,00	1,67	1666,67	404	450	498	0,498	0,5068	506,8	0,49139142	0,44959988	0,45839988	458,39988	0,4484	448,4	0,048	0,0584	58,4	0,084466667
Jagel	11	1	10	3	2	40	200	10	02:00	13	13	1	02:00:13	30,80	1,95	1948,05	408	448	505	0,505	0,504	504	0,511819991	0,436171309	0,435171309	435,1713086	0,4476	447,6	0,057	0,0564	56,4	0,090814496
Jagel	11	1	10	3	2	40	200	10	03:00	14	14	1	02:58:47	36,40	1,65	1648,35	408	450	498	0,498	0,507	507	0,49006175	0,45092955	0,45992955	459,9295503	0,4508	450,8	0,048	0,0562	56,2	0,084034432
Jagel	11	1	10	3	2	40	200	10	04:00	15	15	1	03:58:03	29,90	2,01	2006,69	408	451	500	0,5	0,5018	501,8	0,516077039	0,426914261	0,428714261	428,7142613	0,4526	452,6	0,049	0,0492	49,2	0,091768802
Jagel	11	1	10	3	2	40	200	10	05:00	16	16	1	05:00:44	34,60	1,73	1734,10	411	458	522	0,522	0,516	516	0,496287374	0,468703926	0,462703926	462,7039262	0,457	457	0,064	0,059	59	0,087722632
Jagel	11	1	10	3	2	40	200	10	06:00	17	17	1	06:00:35	30,90	1,94	1941,75	419	461	520	0,52	0,52	520	0,511362294	0,451629006	0,451629006	451,6290062	0,4652	465,2	0,059	0,0548	54,8	0,093545759
Jagel	11	1	10	3	2	40	200	10	07:00	18	18	1	07:01:40	36,30	1,65	1652,89	406	450	502	0,502	0,5048	504,8	0,49039142	0,45459988	0,45739988	457,39988	0,4484	448,4	0,052	0,0564	56,4	0,083784954
Jagel	11	1	10	3	2	40	200	10	08:00	19	19	1	08:01:08	37,40	1,60	1604,28		436	512	0,512	0,4974	497,4	0,486862008	0,468129292	0,453529292	453,5292918	0,4362	436,2	0,076	0,0612	61,2	0,081333597
Jagel	11	1	10	3	2	40	200	10	09:00	20	20	1	08:57:46	34,70	1,73	1729,11	408	450	507	0,507	0,5	500	0,495924561	0,454066739	0,447066739	447,0667388	0,449	449	0,057	0,051	51	0,08487998
Jagel	11	1	10	3	2	40	200	10	10:00	21	21	1	10:00:46	30,10	1,99	1993,36	416	456	512	0,512	0,5154	515,4	0,515109028	0,439882272	0,443282272	443,282272	0,458	458	0,056	0,0574	57,4	0,093942295
Jagel	11	1	10	3	2	40	200	10	11:00	22	22	1	10:59:56	29,80	2,01	2013,42	409	451	503	0,503	0,5062	506,2	0,516565917	0,429425383	0,432625383	432,6253834	0,4506	450,6	0,052	0,0556	55,6	0,092728665
Jagel	11	1	10	3	2	40	200	10	12:00	23	23	1	11:59:37	33,40	1,80	1796,41		443	492	0,492	0,4972	497,2	0,500810582	0,434180718	0,439380718	439,3807183	0,4418	441,8	0,049	0,0554	55,4	0,086031578
Duel	12	1	15	1	2	40	200	10	13:00	0	0	1	13:00:23	35,50	1,69	1690,14		462	554	0,554	0,545	545	0,493095645	0,503895655	0,494895655	494,8956546	0,4636	463,6	0,092	0,0814	81,4	0,091470768
Duel	12	1	15	1	2	40	200	10	14:00	1	1	1	13:59:03	35,30	1,70	1699,72		476	553	0,553	0,558	558	0,493790853	0,502200447	0,507200447	507,2004466	0,4762	476,2	0,077	0,0818	81,8	0,09391757
Duel	12	1	15	1	2	40	200	10	15:00	2	2	1	15:05:09	36,60	1,64	1639,34		462	561	0,561	0,5512	551,2	0,489407813	0,514583487	0,504783487	504,7834866	0,4638	463,8	0,099	0,0874	87,4	0,09111055
Duel	12	1	15	1	2	40	200	10	16:00	3	3	1	16:00:43	37,40	1,60	1604,28	409	457	533	0,533	0,5184	518,4	0,486862008	0,489129292	0,474529292	474,5292918	0,457	457	0,076	0,0614	61,4	0,084767464
Duel	12	1	15	1	2	40	200	10	17:00	4	4	1	17:00:24	36,60	1,64	1639,34	412,00	459	534	0,534	0,542	542	0,489407813	0,487583487	0,495583487	495,5834866	0,4604	460,4	0,075	0,0816	81,6	0,089589836
Duel	12	1	15	1	2	40	200	10	18:00	5	5	1	18:04:06	36,30	1,65	1652,89		457	529	0,529	0,5316	531,6	0,49039142	0,48159988	0,48419988	484,19988	0,4582	458,2	0,072	0,0734	73,4	0,088233125
Duel	12	1	15	1	2	40	200	10	19:00	6	6	1	19:00:32	34,10	1,76	1759,53	427,00	472	551	0,551	0,5494	549,4	0,498133355	0,495857945	0,494257945	494,2579445	0,471	471	0,079	0,0784	78,4	0,094083067
Duel	12	1	15	1	2	40	200	10	20:00	7	7	1	20:03:03	37,40	1,60	1604,28	400,00	449	529	0,529	0,5286	528,6	0,486862008	0,485129292	0,484729292	484,7292918	0,45	450	0,08	0,0786	78,6	0,086435343
Duel	12	1	15	1	2	40	200	10	21:00	8	8	1	20:55:17	39,50	1,52	1518,99		442	529	0,529	0,5236	523,6	0,480669901	0,491321399	0,485921399	485,921399	0,4442	444,2	0,087	0,0794	79,4	0,083310759
Duel	12	1	15	1	2	40	200	10	22:00	9	9	1	22:01:05	38,90	1,54	1542,42		444	526	0,526	0,531	531	0,482370854	0,486620446	0,491620446	491,6204456	0,4444	444,4	0,082	0,0866	86,6	0,08513727
Duel	12	1	15	1	2	40	200	10	23:00	10	10	1	23:00:12	35,40	1,69	1694,92	404,00	447	516	0,516	0,5272	527,2	0,493442267	0,465549033	0,476749033	476,7490325	0,449	449	0,069	0,0782	78,2	0,088608171
Duel	12	1	15	1	2	40	200	10	00:00	11	11	1	00:00:26	34,60	1,73	1734,10	407,00	451	536	0,536	0,5332	533,2	0,496287374	0,482703926	0,479903926	479,9039262	0,453	453	0,085	0,0802	80,2	0,090646719
Duel	12	1	15	1	2	40	200	10	01:00	12	12	1	01:00:51	32,40	1,85	1851,85	402,00	449	534	0,534	0,5246	524,6	0,504835864	0,472155436	0,462755436	462,7554356	0,4508	450,8	0,085	0,0738	73,8	0,092162826
Duel	12	1	15	1	2	40	200	10	02:00	13	13	1	01:56:55	38,40	1,56	1562,50		441	543	0,543	0,5286	528,6	0,48382892	0,50216238	0,48776238	487,76238	0,4376	437,6	0,102	0,091	91	0,085302458
Duel	12	1	15	1	2	40	200	10	03:00	14	14	1	03:01:04	32,80	1,83	1829,27	405,00	454	533	0,533	0,5334	533,4	0,503196298	0,472795002	0,473195002	473,195002	0,4536	453,6	0,079	0,0798	79,8	0,09313568
Duel	12	1	15	1	2	40	200	10	04:00	15	15	1	04:00:21	34,10	1,76	1759,53	402,00	451	519	0,519	0,5296	529,6	0,498133355	0,463857945	0,474457945	474,4579445	0,4544	454,4	0,068	0,0752	75,2	0,090692377
Duel	12	1	15	1	2	40	200	10	05:00	16	16	1	05:00:14	34,90	1,72	1719,20	409,00	461	538	0,538	0,53	530	0,495205174	0,485786126	0,477786126	477,7861264	0,461	461	0,077	0,069	69	0,089714606
Duel	12	1	15	1	2	40	200	10	06:00	17	17	1	06:01:53	37,20	1,61	1612,90		446	541	0,541	0,5352	535,2	0,487488194	0,496503106	0,490703106	490,7031058	0,4468	446,8	0,095	0,0884	88,4	0,087749497
Duel	12	1	15	1	2	40	200	10	07:00	18	18	1	06:58:18	35,80	1,68	1675,98		451	546	0,546	0,5506	550,6	0,492067398	0,496923902	0,501523902	501,5239023	0,47	470	0,095	0,0806	80,6	0,092022641
Duel	12	1	15	1	2	40	200	10	08:00	19	19	1	08:02:20	34,70	1,73	1729,11		452	534	0,534	0,5362	536,2	0,495924561	0,481066739	0,483266739	483,2667388	0,4518	451,8	0,082	0,0844	84,4	0,09102529
Duel	12	1	15	1	2	40	200	10	09:00	20	20	1	09:00:48	32,40	1,85	1851,85	415,00	462	533	0,533	0,5404	540,4	0,504835864	0,471155436	0,478555436	478,5554356	0,463	463	0,071	0,0774	77,4	0,094938603
Duel	12	1	15	1	2	40	200	10	10:00	21	21	1	10:00:27	31,50	1,90	1904,76	415,00	466	531	0,531	0,542	542	0,508677134	0,465314166	0,476314166	476,3141657	0,468	468	0,065	0,074	74	0,096570395
Duel	12	1	15	1	2	40	200	10	11:00	22	22	1	11:00:25	31,50	1,90	1904,76	424,00	467	544	0,544	0,5406	540,6	0,508677134	0,478314166	0,474914166	474,9141657	0,4658	465,8	0,077	0,0748	74,8	0,096320952
Duel	12	1	15	1	2	40	200	10	12:00	23	23	1	11:55:08	35,60	1,69	1685,39		452	549	0,549	0,5454	545,4	0,492750971	0,499240329	0,495640329	495,6403294	0,4726	472,6	0,097	0,0728	72,8	0,091409248
Duel	12	1	15	2	2	40	200	10	13:00	0	0	1	12:57:57	34,40	1,74	1744,19		473	560	0,56	0,55	550	0,497019327	0,505971973	0,495971973	495,971973	0,4724	472,4	0,087	0,0776	77,6	0,093774222

Horse	No	Stable	Age	Day	Gender	QTgain	QTfeed	HRfeed	Time	timex	tidxcopy	No	EKGtime	HR	RR	RRms	QTpeak1	Qtpeak2	QT	Qts	AvgQT	AvgQTms	StandardhorseRR>0,8021	QTc	AvgQTc	AvgQTcms	AvgQtpeak	AvgQtpeakms	Tptend	Tptendavg	TpTendavg(ms)	Bazett
Duel	12	1	15	2	2	40	200	10	14:00	1	1	1	14:00:10	36,70	1,63	1634,88		458	540	0,54	0,5326	532,6	0,489083518	0,493907782	0,486507782	486,5077819	0,4546	454,6	0,082	0,078	78	0,087916042
Duel	12	1	15	2	2	40	200	10	15:00	2	2	1	15:03:40	36,20	1,66	1657,46		455	532	0,532	0,5368	536,8	0,490722912	0,484268388	0,489068388	489,0683883	0,4554	455,4	0,077	0,0814	81,4	0,089219179
Duel	12	1	15	2	2	40	200	10	16:00	3	3	1	16:01:06	38,70	1,55	1550,39		453	527	0,527	0,5294	529,4	0,48294956	0,48704174	0,48944174	489,4417405	0,4502	450,2	0,074	0,0792	79,2	0,085099783
Duel	12	1	15	2	2	40	200	10	17:00	4	4	1	17:01:20	37,50	1,60	1600,00		443	523	0,523	0,5244	524,4	0,48655142	0,47943988	0,48083988	480,83988	0,4442	444,2	0,08	0,0802	80,2	0,085634161
Duel	12	1	15	2	2	40	200	10	18:00	5	5	1	18:00:47	34,70	1,73	1729,11	413,00	458	530	0,53	0,5358	535,8	0,495924561	0,477066739	0,482866739	482,8667388	0,459	459	0,072	0,0768	76,8	0,090957386
Duel	12	1	15	2	2	40	200	10	19:00	6	6	1	18:59:39	37,00	1,62	1621,62		450	539	0,539	0,5344	534,4	0,48812115	0,49387015	0,48927015	489,2701503	0,4498	449,8	0,089	0,0846	84,6	0,087854819
Duel	12	1	15	2	2	40	200	10	20:00	7	7	1	20:01:00	36,10	1,66	1662,05		446	523	0,523	0,5286	528,6	0,49105624	0,47493506	0,48053506	480,5350601	0,4466	446,6	0,077	0,082	82	0,087977893
Duel	12	1	15	2	2	40	200	10	21:00	8	8	1	21:02:40	37,80	1,59	1587,30		446	529	0,529	0,529	529	0,485629515	0,486361785	0,486361785	486,3617848	0,446	446	0,083	0,083	83	0,086041856
Duel	12	1	15	2	2	40	200	10	22:00	9	9	1	22:00:54	36,60	1,64	1639,34		450	523	0,523	0,5292	529,2	0,489407813	0,476583487	0,482783487	482,7834866	0,4484	448,4	0,073	0,0808	80,8	0,087474062
Duel	12	1	15	2	2	40	200	10	23:00	10	10	1	22:59:24	33,80	1,78	1775,15	408,00	453	520	0,52	0,5248	524,8	0,49926716	0,46372414	0,46852414	468,5241404	0,4546	454,6	0,067	0,0702	70,2	0,090268344
Duel	12	1	15	2	2	40	200	10	00:00	11	11	1	00:00:34	33,70	1,78	1780,42	404,00	460	532	0,532	0,529	529	0,49964958	0,47534172	0,47234172	472,3417198	0,4596	459,6	0,072	0,0694	69,4	0,091125667
Duel	12	1	15	2	2	40	200	10	01:00	12	12	1	01:00:14	34,50	1,74	1739,13		451	535	0,535	0,5404	540,4	0,49665229	0,48133901	0,48673901	486,7390104	0,4552	455,2	0,084	0,0852	85,2	0,092003806
Duel	12	1	15	2	2	40	200	10	02:00	13	13	1	01:59:16	36,30	1,65	1652,89		453	518	0,518	0,5328	532,8	0,49039142	0,47059988	0,48539988	485,39988	0,4546	454,6	0,065	0,0782	78,2	0,088432297
Duel	12	1	15	2	2	40	200	10	03:00	14	14	1	02:58:04	37,40	1,60	1604,28	399,00	446	518	0,518	0,5184	518,4	0,486862008	0,474129292	0,474529292	474,5292918	0,4456	445,6	0,072	0,0728	72,8	0,084767464
Duel	12	1	15	2	2	40	200	10	04:00	15	15	1	04:01:12	35,80	1,68	1675,98	409,00	451	530	0,53	0,531	531	0,492067398	0,480923902	0,481923902	481,9239023	0,4522	452,2	0,079	0,0788	78,8	0,088746862
Duel	12	1	15	2	2	40	200	10	05:00	16	16	1	05:01:12	33,60	1,79	1785,71	416,00	463	539	0,539	0,5362	536,2	0,500034277	0,481957023	0,479157023	479,1570229	0,4648	464,8	0,076	0,0714	71,4	0,092503288
Duel	12	1	15	2	2	40	200	10	06:00	17	17	1	06:00:27	36,90	1,63	1626,02		458	534	0,534	0,5382	538,2	0,4884402	0,4885511	0,4927511	492,7510995	0,4578	457,8	0,076	0,0804	80,4	0,088599345
Duel	12	1	15	2	2	40	200	10	07:00	18	18	1	07:01:49	34,90	1,72	1719,20		461	534	0,534	0,5414	541,4	0,495205174	0,481786126	0,489186126	489,1861264	0,4608	460,8	0,073	0,0806	80,6	0,091644317
Duel	12	1	15	2	2	40	200	10	08:00	19	19	1	07:58:35	35,90	1,67	1671,31		461	540	0,54	0,5372	537,2	0,491728467	0,491262833	0,488462833	488,4628326	0,4596	459,6	0,079	0,0776	77,6	0,089657945
Duel	12	1	15	2	2	40	200	10	09:00	20	20	1	09:03:57	35,60	1,69	1685,39		468	550	0,55	0,5466	546,6	0,492750971	0,500240329	0,496840329	496,8403294	0,4692	469,2	0,082	0,0774	77,4	0,091610368
Duel	12	1	15	2	2	40	200	10	10:00	21	21	1	10:00:45	32,60	1,84	1840,49	414,00	470	539	0,539	0,5414	541,4	0,504011052	0,477980248	0,480380248	480,3802481	0,4682	468,2	0,069	0,0732	73,2	0,094822074
Duel	12	1	15	2	2	40	200	10	11:00	22	22	1	11:01:35	35,10	1,71	1709,40		458	542	0,542	0,5368	536,8	0,494493984	0,490497316	0,485297316	485,2973159	0,4584	458,4	0,084	0,0784	78,4	0,090606415
Duel	12	1	15	2	2	40	200	10	12:00	23	23	1	11:59:27	35,80	1,68	1675,98		456	530	0,53	0,5322	532,2	0,492067398	0,480923902	0,483123902	483,1239023	0,4564	456,4	0,074	0,0758	75,8	0,08894742
Duel	12	1	15	3	2	40	200	10	13:00	0	0	1	12:56:45	34,90	1,72	1719,20	421,00	470	549	0,549	0,5466	546,6	0,495205174	0,496786126	0,494386126	494,3861264	0,4688	468,8	0,079	0,0778	77,8	0,092524536
Duel	12	1	15	3	2	40	200	10	14:00	1	1	1	14:00:06	39,70	1,51	1511,34		448	534	0,534	0,5314	531,4	0,480114342	0,496876958	0,494276958	494,2769581	0,4464	446,4	0,086	0,085	85	0,084338582
Duel	12	1	15	3	2	40	200	10	15:00	2	2	1	15:00:37	36,20	1,66	1657,46	408,00	460	535	0,535	0,5354	535,4	0,490722912	0,487268388	0,487668388	487,6683883	0,4594	459,4	0,075	0,076	76	0,088986491
Duel	12	1	15	3	2	40	200	10	16:00	3	3	1	16:00:00	34,80	1,72	1724,14	419,00	466	550	0,55	0,5426	542,6	0,495563834	0,497427466	0,490027466	490,0274662	0,466	466	0,084	0,0766	76,6	0,091979314
Duel	12	1	15	3	2	40	200	10	17:00	4	4	1	17:00:07	36,40	1,65	1648,35		455	552	0,552	0,5446	544,6	0,49006175	0,50492955	0,49752955	497,5295503	0,4568	456,8	0,097	0,0878	87,8	0,090266571
Duel	12	1	15	3	2	40	200	10	18:00	5	5	1	18:00:42	34,10	1,76	1759,53	423,00	468	540	0,54	0,5418	541,8	0,498133355	0,484857945	0,486657945	486,6579445	0,466	466	0,072	0,0758	75,8	0,09278159
Duel	12	1	15	3	2	40	200	10	19:00	6	6	1	19:01:45	33,20	1,81	1807,23	423,00	471	544	0,544	0,545	545	0,501596239	0,485395061	0,486395061	486,3950607	0,4706	470,6	0,073	0,0744	74,4	0,094586131
Duel	12	1	15	3	2	40	200	10	20:00	7	7	1	19:59:48	38,70	1,55	1550,39		441	529	0,529	0,5292	529,2	0,48294956	0,48904174	0,48924174	489,2417405	0,443	443	0,088	0,0862	86,2	0,085067634
Duel	12	1	15	3	2	40	200	10	21:00	8	8	1	20:59:53	37,30	1,61	1608,58		443	518	0,518	0,5184	518,4	0,487174262	0,473817038	0,474217038	474,2170382	0,443	443	0,075	0,0754	75,4	0,084881017
Duel	12	1	15	3	2	40	200	10	22:00	9	9	1	22:00:32	34,90	1,72	1719,20	426,00	470	552	0,552	0,5492	549,2	0,495205174	0,499786126	0,496986126	496,9861264	0,4674	467,4	0,082	0,0818	81,8	0,092964645
Duel	12	1	15	3	2	40	200	10	23:00	10	10	1	23:00:25	34,30	1,75	1749,27	413,00	465	544	0,544	0,5378	537,8	0,497388505	0,489602795	0,483402795	483,4027955	0,4658	465,8	0,079	0,072	72	0,091827707
Duel	12	1	15	3	2	40	200	10	00:00	11	11	1	00:00:52	32,60	1,84	1840,49	424,00	470	535	0,535	0,5394	539,4	0,504011052	0,473980248	0,478380248	478,3802481	0,4672	467,2	0,065	0,0722	72,2	0,09447179
Duel	12	1	15	3	2	40	200	10	01:00	12	12	1	01:00:18	31,90	1,88	1880,88	426,00	470	545	0,545	0,548	548	0,506943144	0,481048156	0,484048156	484,0481559	0,4696	469,6	0,075	0,0784	78,4	0,09702535
Duel	12	1	15	3	2	40	200	10	02:00	13	13	1	02:00:19	33,70	1,78	1780,42	435,00	482	554	0,554	0,5566	556,6	0,49964958	0,49734172	0,49994172	499,9417198	0,4834	483,4	0,072	0,0732	73,2	0,09588005
Duel	12	1	15	3	2	40	200	10	03:00	14	14	1	03:01:15	32,90	1,82	1823,71		482	564	0,564	0,5654	565,4	0,502792636	0,504198664	0,505598664	505,5986642	0,484	484	0,082	0,0814	81,4	0,098572973
Duel	12	1	15	3	2	40	200	10	04:00	15	15	1	04:00:21	31,30	1,92	1916,93	450,00	495	555	0,555	0,5572	557,2	0,509560749	0,488430551	0,490630551	490,6305509	0,4946	494,6	0,06	0,0626	62,6	0,099595322
Duel	12	1	15	3	2	40	200	10	05:00	16	16	1	05:00:31	30,10	1,99	1993,36	458,00	507	565	0,565	0,5792	579,2	0,515109028	0,492882272	0,507082272	507,082272	0,5068	506,8	0,058	0,0724	72,4	0,105571163
Duel	12	1	15	3	2	40	200	10	06:00	17	17	1	05:58:57	36,90	1,63	1626,02	426,00	475	554	0,554	0,554	554	0,4884402	0,5085511	0,5085511	508,5510995	0,4762	476,2	0,079	0,0778	77,8	0,091200366
Duel	12	1	15	3	2	40	200	10	07:00	18	18	1	07:00:44	36,70	1,63	1634,88		450	539	0,539	0,5354	535,4	0,489083518	0,492907782	0,489307782	489,3077819	0,4494	449,4	0,089	0,086	86	0,088378237
Duel	12	1	15	3	2	40	200	10	08:00	19	19	1	08:00:03	32,30	1,86	1857,59	418,00	468	544	0,544	0,5462	546,2	0,505252101	0,481739199	0,483939199	483,9391989	0,467	467	0,076	0,0792	79,2	0,096105985
Duel	12	1	15	3	2	40	200	10	09:00	20	20	1	08:56:03	32,90	1,82	1823,71		455	518	0,518	0,5338	533,8	0,502792636	0,458198664	0,473998664	473,9986642	0,46	460	0,063	0,0738	73,8	0,093063765
Duel	12	1	15	3	2	40	200	10	10:00	21	21	1	10:02:18	32,30	1,86	1857,59		473	557	0,557	0,5574	557,4	0,505252101	0,494739199	0,495139199	495,1391989	0,4756	475,6	0,084	0,0818	81,8	0,098076668
Duel	12	1	15	3	2	40	200	10	11:00	22	22	1	11:01:02	32,20	1,86	1863,35	428,00	473	545	0,545	0,5502	550,2	0,505670923	0,482320377	0,487520377	487,5203769	0,4758	475,8	0,072	0,0744	74,4	0,09696001
Duel	12	1	15	3	2	40	200	10	12:00	23	23	1	12:00:12	30,40	1,97	1973,68	428,00	471	544	0,544	0,543	543	0,513680894	0,473310406	0,472310406	472,3104063	0,473	473	0,073	0,07	70	0,098483401