

Category:Aircraft wiring and pilotage equipment Category:Automotive technology tradenamesAbstract A probability distribution model has been developed in which individual variability in heart rate (HR) and its trend over time can be attributed to levels of cardiac vagal tone (CVT) and its trend over time. Model errors attributable to random measurement error of HR and CVT are estimated. The model was applied to recordings of HR measured with a finger-worn device in 619 healthy volunteers. Multiple linear regression identified factors associated with HR and CVT that were in turn used in the model to predict HR and CVT across the whole population. The model was able to predict with a within-subject standard deviation of HR of 20 beats/min at any time, and with a within-subject standard deviation of CVT of 0.5 ln ms⁻² at any time. Cardiac vagal tone and relative weight (R-value) explained 66% of the HR variance, indicating that large inter-individual variability in HR is likely to be primarily due to individual differences in levels of cardiac vagal tone. Keywords Notes Electronic supplementary material The online version of this article (doi:10.1186/s12872-015-0019-y) contains supplementary material, which is available to authorized users. (PDF) Supplementary material The distribution of cardiac vagal tone was found to be skewed; therefore, CVT was logarithmically transformed to obtain a normal distribution. The HR distribution was found to be right skewed; therefore, HR was logarithmically transformed to obtain a normal distribution. Heart rate (HR) was normalized by dividing by the sum of HR and respiration rate (RR). The normalization exponent was set to 2 because the value of the coefficient of determination (R²) of the model was higher when HR was divided by the sum of HR and RR rather than when HR was divided by RR. Correlation coefficients between HR and CVT, HR, and R-value were 0.75, 0.75, and 0.64, respectively, indicating that the model was able to explain most of the variance in HR. The within-subject standard deviation of HR was 16 beats/min with CVT levels of 0.2 ln ms⁻² (95% confidence interval (CI) = 0.2–0.2), 12 beats/min with CVT levels

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