Sports Medicine - Open

Fine tuning ECG interpretation for young athletes: ECG screening using Z-score-based analysis

Authors

Jihyun Park^{1,4}, Chieko Kimata², Justin Young³, James C Perry^{1,5}, Andras Bratincsak^{3,4}

Affiliations

- University of California San Diego School of Medicine, Department of Pediatrics, San Diego, CA, USA
- 2. Hawaii Pacific Health, Patient Safety & Quality Services, Honolulu, HI, USA
- 3. Hawaii Pacific Health Medical Group, Hawaii Pacific Health, Honolulu, HI, USA
- 4. John A Burns School of Medicine, University of Hawaii, Department of Pediatrics, University of Hawaii, Honolulu, HI, USA
- 5. Division of Pediatric Cardiology, Stanford University, Stanford, California, USA

Correspondence:

Jihyun Park, MD

3020 Children's Way

MC5004

San Diego, CA 92123

E-mail: jip019@health.ucsd.edu

Supplementary Figure 1: Distribution of values for ECG variables in controls and athletes by age. UH Athlete refers to the athletes and Non-UH Athlete refers to control cohort. RR interval represents heart rate. A: Distribution of values for RR interval, used as surrogate of heart rate, in athlete and control cohort by age. B: Distribution of values for PR interval in athlete and control cohort by age. C: Distribution of values for R axis, demonstrating degree of axis deviation, in athlete and control cohort by age. D: Distribution of values for QT interval in athlete and control cohort by age. E: Distribution of values for QRS duration in athlete and control cohort by age. F: Distribution of values for T wave peak amplitude in lead II in athlete and control cohort by age. G: Distribution of values for T wave peak amplitude in lead aVF in athlete and control cohort by age. H: Distribution of values for T wave peak amplitude in lead V6 in athlete and control cohort by age. I: Distribution of values for T wave area in lead II in athlete and control cohort by age. J: Distribution of values for T wave area in lead aVF in athlete and control cohort by age. K: Distribution of values for S wave peak amplitude in lead V1 in athlete and control cohort by age. L: Distribution of values for S wave peak amplitude in lead V2 in athlete and control cohort by age. M: Distribution of values for O wave peak amplitude in lead II in athlete and control cohort by age. N: Distribution of values for O wave peak amplitude in lead V6 in athlete and control cohort by age. O: Distribution of values for R wave peak amplitude in lead II in athlete and control cohort by age. P: Distribution of values for R wave peak amplitude in lead V6 in athlete and control cohort by age. Q: Distribution of values for R wave peak amplitude in lead V5 in athlete and control cohort by age. R: Distribution of values for R' peak amplitude in lead V1 in athlete and control cohort by age. S: Distribution of values for R' area in lead V1 in athlete and control cohort by age. T: Distribution of values for R' duration in lead V1 in athlete and control cohort by age







































