

Stanford



Victor Froelicher, MD

Professor of Medicine (Cardiovascular) at the Veterans Affairs Palo Alto Health Care System, Emeritus

Medicine - Cardiovascular Medicine

 NIH Biosketch available Online

 Curriculum Vitae available Online

 Resume available Online

Bio

BIO

A Professor of Medicine who started his cardiology career at the USAF School of Aerospace Medicine performing cardiac screening of pilots, astronauts and military athletes. He is an international expert in clinical exercise physiology, ECGs, screening and the exercise sciences. He is a co-author of the textbook "Exercise and the Heart. Since 1992, he has been the major consultant to Stanford Sports Medicine and participated in the pre-participation exam of all Stanford athletes and professional teams in their care. He led the writing group for the first international document to specify the ECG criteria that lower the false positive rate for screening athletes for sudden cardiac death and has been a participant in the two Seattle Criteria meetings. He is a coauthor of a chapter in the Olympic Committee 2017 Cardiology Manual. He has maintained an educational web page (www.cardiology.org since 2008. He initiated the program of ECG screening at Stanford which is now mandated by the Athletic Department. He was Director of the Sports Cardiology clinic but now he is a consultant. His memoir can be seen at <https://medium.com/@vicmdatg>

His amateur athletic experience includes lettering in collegiate tennis, playing intramural sports, running in slow 10k's and over 15 Marathons. His "fastest" marathon was the "Avenue of the Giants" in 3 hours and 3 minutes. He has cycled down the coast to LA 4 times and used to climb Old La Honda often. He now walks his 10,000 steps daily with dogs by the beach.

As a person who enjoys exercise and competition, he has a profound appreciation and respect for everyone's freedom to exercise to the intensity and level important to them whether they have a heart condition or not.

Contributions to Science

* Sports Cardiology – For the past 22 years he has been the Cardiology Consultant for the Stanford Sports program and from 2015 till 2019, the Director of the Stanford Sports Cardiology Clinic. His group has contributed to recent advancements in sports cardiology and has presented data regarding the application of ECG screening and of the cause of sudden cardiac death in athletes.

* Screening of Asymptomatic USAF Aircrewmen – While Director of CV research and LtCol at the USAF School of Medicine (1972-1977), he presented seminal data on the angiographic findings and follow up of aircrewmen with abnormal ECGs and abnormal exercise tests.

* The Cardiovascular Effects of Cardiac Rehabilitation (PERFEXT) – While Director of Cardiac Rehabilitation at University Hospital and The San Diego VA (1977-1983), he was PI of an NHLBI funded randomized trial of Cardiac Rehabilitation.

* Prognostic Studies in Veterans – While Chief of Cardiology at the LBVAMC, he developed the cardiology data bases for follow up studies of Veterans who had ECGs and exercise tests. The techniques perfected were the basis for the VETs treadmill studies and the ECG studies that are still on-going. These studies led to literally hundreds of peer review publications in major journals.

* VA Co-operative Study of Quantitative Exercise Testing and Angiography (QUEXTA) He was the originator and Co PI for this study which applied computer techniques to both exercise testing and coronary angiography. It is seminal in that it removed work up bias by requiring patients with chest pain who agreed to both exercise testing and coronary angiography prior to any testing.

ACADEMIC APPOINTMENTS

- Emeritus Faculty - University Medical Line, Medicine - Cardiovascular Medicine
- Member, Bio-X
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Consultant, Sports Cardiology Clinic, Stanford Health Care, (2015- present)
- Cardiologist, Sportsmedicine, (1992- present)
- Staff Cardiologist, PA Veterans Affairs Med Ctr, (1992-2015)

HONORS AND AWARDS

- Best Doctor US and Silicon Valley, BEST Doctor, Inc (1995-)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Invited Speaker, Seattle Conference for Interpretation of Athlete's ECG (2014 - present)

COMMUNITY AND INTERNATIONAL WORK

- Clinical Lab, Oaxaco

LINKS

- CP Research Exercise Physiology Lab: <http://www.cardiology.org>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Screening of athletes for sudden cardiac death, Computerized ECG and clinical data management; exercise Physiology including expired gas analysis; the effect of chronic and acute exercise on the heart; digitalrecording of biological signals; prognostic and diagnostic use of exercise testing; development of Expert Medical System software and educational tools.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Medicine (Masters Program)

Publications

PUBLICATIONS

- Prevalence of frequent premature ventricular contractions and nonsustained ventricular tachycardia in older women screened for atrial fibrillation in the Women's Health Initiative. *Heart rhythm*
Gomez, S. E., Larson, J., Hlatky, M. A., Rodriguez, F., Wheeler, M., Greenland, P., LaMonte, M., Froelicher, V., Stefanick, M. L., Wallace, R., Kooperberg, C., Tinker, L. F., Schoenberg, et al
2024
- Digitized Electrocardiography Measurements Support the Biological Plausibility of the Pathological Significance of ST Segments in Athletes. *Clinical journal of sport medicine : official journal of the Canadian Academy of Sport Medicine*

Montalvo, S., Froelicher, V. F., Hadley, D., Wheeler, M. T.

2024

● **Should ECG criteria for Low QRS voltage (LQRSV) be specific for Sex? *American heart journal***

Tso, J. V., Montalvo, S., Christle, J., Hadley, D., Froelicher, V.

2024

● **ECG Characteristics of Black and Mixed-Race Young Brazilian Football Players: Addressing the "African/Afro-Caribbean Pattern". *European journal of preventive cardiology***

Ferrari, F., da Silveira, A. D., Froelicher, V. F., Stein, R.

2024

● **Historical and Current Differences Between Europe and the USA in Sports Cardiology *CURRENT TREATMENT OPTIONS IN CARDIOVASCULAR MEDICINE***

Husaini, M., Pelliccia, A., Froelicher, V.

2023; 25 (11): 629-638

● **The Reply. *The American journal of medicine***

Harris, C. S., Froelicher, V. F., Wheeler, M. T.

2023; 136 (5): e106

● **Serial 7-Day Electrocardiogram PatchScreening for AF in High-Risk Older Women by the CHARGE-AF Score. *JACC. Clinical electrophysiology***

Lin, J. Y., Larson, J., Schoenberg, J., Sepulveda, A., Tinker, L., Wheeler, M., Albert, C., Manson, J. E., Wells, G., Martin, L. W., Froelicher, V., LaMonte, M., Kooperberg, et al

2022; 8 (12): 1523-1534

● **Premature ventricular contractions (PVCs) in young athletes. *Progress in cardiovascular diseases***

Gomez, S. E., Hwang, C. E., Kim, D. S., Froelicher, V. F., Wheeler, M. T., Perez, M. V.

2022

● **The Journal of Cardiopulmonary Rehabilitation and Prevention at 40 Years and Its Role in the Evolution of Cardiac Rehabilitation. *Journal of cardiopulmonary rehabilitation and prevention***

Ades, P. A., Balady, G. J., Berra, K., Franklin, B. A., Froelicher, V., Hamm, L. F., Kaminsky, L. A., Williams, M. A.

2020; 40 (1): 2-8

● **Comparison of the Stanford ECG Left Atrial Criteria With the International ECG Criteria for Sports Screening. *Clinical journal of sport medicine : official journal of the Canadian Academy of Sport Medicine***

Hock, J., Wheeler, M., Singh, T., Ha, L. D., Hadley, D., Froelicher, V.

2019

● **Justification of an Introductory Electrocardiogram Teaching Mnemonic by Demonstration of its Prognostic Value *AMERICAN JOURNAL OF MEDICINE***

Soofti, M., Yong, C., Froelicher, V.

2014; 127 (12): 1202-1207

● **Imaging associations enhance the understanding of ECG abnormalities in male Brazilian football players: findings from the B-Pro Foot ECG study. *British journal of sports medicine***

Ferrari, F., da Silveira, A. D., Ziegelmann, P. K., Aleixo, H., Dilda, G. D., Emed, L. G., Magalhães, F. C., Cardoso, F. B., da Silva, H. C., Guerra, F. E., Soares, L. G., Bassan, F., Braga, et al

2024

● **Historical and Current Differences Between Europe and the USA in Sports Cardiology *CURRENT TREATMENT OPTIONS IN CARDIOVASCULAR MEDICINE***

Husaini, M., Pelliccia, A., Froelicher, V.

2023

● **ST Segment Depression In Male Athletes**

Montalvo, S., Froelicher, V. F., Myers, J. N., Wheeler, M. T.

LIPPINCOTT WILLIAMS & WILKINS.2023: 202-203

● **Guide to the female student athlete ECG: A comprehensive study of 3466 young, racially diverse athletes. *The American journal of medicine***

Harris, C. S., Froelicher, V. F., Wheeler, M. T.

2022

- **Findings From Cardiovascular Evaluation of National Collegiate Athletic Association Division I Collegiate Student-Athletes After Asymptomatic or Mildly Symptomatic SARS-CoV-2 Infection.** *Clinical journal of sport medicine : official journal of the Canadian Academy of Sport Medicine*
Hwang, C. E., Kussman, A., Christle, J. W., Froelicher, V., Wheeler, M. T., Moneghetti, K. J.
2021
- **Modest Gains After an 8-Week Exercise Program Correlate With Reductions in Non-traditional Markers of Cardiovascular Risk** *FRONTIERS IN CARDIOVASCULAR MEDICINE*
Liang, G., Huang, X., Hirsch, J., Mehmi, S., Fonda, H., Chan, K., Huang, N. F., Alami, O., Froelicher, V. F., Lee, D. P., Myers, J., Lee, A. S., Nguyen, et al
2021; 8: 669110
- **Palpitations in an Elite Running Athlete: When to Run Through the Beat? A Case Report.** *Current sports medicine reports*
Giacomazzi, C., Diaz, R., Syrop, I., Perez, M., Froelicher, V. F., Fredericson, M.
2021; 20 (2): 84–86
- **Impact of the distance from the chest wall to the heart on surface ECG voltage in athletes.** *BMJ open sport & exercise medicine*
Hedman, K., Patti, A., Moneghetti, K. J., Hsu, D., Christle, J. W., Ashley, E., Hadley, D., Haddad, F., Froelicher, V.
2020; 6 (1): e000696
- **Long-Term Cardiac Maintenance Programming: A SINGLE-SITE ANALYSIS OF MORE THAN 200 PARTICIPANTS.** *Journal of cardiopulmonary rehabilitation and prevention*
Christle, J. W., Baumgartner, M. n., Zelger, O. n., Lammel, C. n., Haller, B. n., Bjarnason-Wehrens, B. n., Myers, J. n., Hamm, L. F., Froelicher, V. n., Halle, M. n., Pressler, A. n.
2020
- **The association between ECG voltage and left-ventricular mass, sex, body size and the distance between the heart and chest wall in college athletes**
Hedman, K., Moneghetti, K. J., Hsu, D., Christle, J. W., Haddad, F., Froelicher, V. F.
OXFORD UNIV PRESS.2019: 2649
- **Limitations of Electrocardiography for Detecting Left Ventricular Hypertrophy or Concentric Remodeling in Athletes.** *The American journal of medicine*
Hedman, K., Moneghetti, K. J., Hsu, D., Christle, J. W., Patti, A., Ashley, E., Hadley, D., Haddad, F., Froelicher, V.
2019
- **Comparison of QT Interval Measurement Methods and Correction Formulas in Atrial Fibrillation** *AMERICAN JOURNAL OF CARDIOLOGY*
Tooley, J., Ouyang, D., Hadley, D., Turakhia, M., Wang, P., Ashley, E., Froelicher, V., Perez, M.
2019; 123 (11): 1822–27
- **Blood pressure in athletic preparticipation evaluation and the implication for cardiac remodelling.** *Heart (British Cardiac Society)*
Hedman, K., Moneghetti, K. J., Christle, J. W., Bagherzadeh, S. P., Amsalem, M., Ashley, E., Froelicher, V., Haddad, F.
2019
- **COMPARISON OF UNITED STATES AND EUROPEAN CRITERIA FOR HYPERTENSION IN A LARGE COHORT OF COMPETITIVE ATHLETES EXAMINED AS PART OF PRE-PARTICIPATION EVALUATION**
Hedman, K., Moneghetti, K., Christle, J. W., Bagherzadeh, S. P., Haddad, F., Ashley, E. A., Froelicher, V.
ELSEVIER SCIENCE INC.2019: 446
- **RESTING BLOOD PRESSURE IN 2881 ATHLETES AGED 9-35 YEARS OF AGE AND THE RELATION TO SEX, AGE, BODY SIZE, AND AFRO-AMERICAN DESCENT**
Bagherzadeh, S. P., Hedman, K., Christle, J. W., Moneghetti, K., Ashley, E. A., Haddad, F., Froelicher, V.
ELSEVIER SCIENCE INC.2019: 447
- **QT Corrections for Long QT Risk Assessment: Implications for the Preparticipation Examination.** *Clinical journal of sport medicine : official journal of the Canadian Academy of Sport Medicine*
Hadley, D. n., Hsu, D. n., Pickham, D. n., Drezner, J. A., Froelicher, V. F.
2019; 29 (4): 285–91
- **Heart Rate Variability: An Old Metric with New Meaning in the Era of Using mHealth technologies for Health and Exercise Training Guidance. Part Two: Prognosis and Training.** *Arrhythmia & electrophysiology review*
Singh, N., Moneghetti, K. J., Christle, J. W., Hadley, D., Froelicher, V., Plews, D.
2018; 7 (4): 247–55

- **Large Q and S waves in lead III on the electrocardiogram distinguish patients with hypertrophic cardiomyopathy from athletes** *HEART*
Chen, A. S., Bent, R. E., Wheeler, M., Knowles, J. W., Haddad, F., Froelicher, V., Ashley, E., Perez, M. V.
2018; 104 (22): 1871–77
- **Applying current normative data to prognosis in heart failure: The Fitness Registry and the Importance of Exercise National Database (FRIEND)** *INTERNATIONAL JOURNAL OF CARDIOLOGY*
Moneghetti, K. J., Hock, J., Kaminsky, L., Arena, R., Lui, G. K., Haddad, F., Wheeler, M., Froelicher, V., Ashley, E., Myers, J., Christle, J. W.
2018; 263: 75–79
- **Electrocardiographic left atrial abnormalities predict cardiovascular mortality** *JOURNAL OF ELECTROCARDIOLOGY*
Ha, L., Grober, A. F., Hock, J., Wheeler, M., Elbadawi, A., Biniwale, N., Baig, B., Froelicher, V.
2018; 51 (4): 652–57
- **Heart Rate Variability: An Old Metric with New Meaning in the Era of using nnHealth Technologies for Health and Exercise Training Guidance. Part One: Physiology and Methods** *ARRHYTHMIA & ELECTROPHYSIOLOGY REVIEW*
Singh, N., Moneghetti, K., Christle, J., Hadley, D., Plews, D., Froelicher, V.
2018; 7 (3): 193–98
- **Large Q and S waves in lead III on the electrocardiogram distinguish patients with hypertrophic cardiomyopathy from athletes.** *Heart (British Cardiac Society)*
Chen, A. S., Bent, R. E., Wheeler, M., Knowles, J. W., Haddad, F., Froelicher, V., Ashley, E., Perez, M. V.
2018
- **Clinical Implications of Technological Advances in Screening for Atrial Fibrillation** *PROGRESS IN CARDIOVASCULAR DISEASES*
Singh, N., Chun, S., Hadley, D., Froelicher, V.
2018; 60 (4-5): 550–59
- **Accuracy of non-invasive stress testing in women and men with angina in the absence of obstructive coronary artery disease.** *International journal of cardiology*
Pargaonkar, V. S., Kobayashi, Y. n., Kimura, T. n., Schnittger, I. n., Chow, E. K., Froelicher, V. F., Rogers, I. S., Lee, D. P., Fearon, W. F., Yeung, A. C., Stefanick, M. L., Tremmel, J. A.
2018
- **Limited Relationship of Voltage Criteria for Electrocardiogram Left Ventricular Hypertrophy to Cardiovascular Mortality** *AMERICAN JOURNAL OF MEDICINE*
Le Dung Ha, Elbadawi, A., Froelicher, V. F.
2018; 131 (1)
- **QT Corrections for Long QT Risk Assessment: Implications for the Preparticipation Examination.** *Clinical journal of sport medicine : official journal of the Canadian Academy of Sport Medicine*
Hadley, D., Hsu, D., Pickham, D., Drezner, J. A., Froelicher, V. F.
2017
- **Should the exercise test be reimbursed as the hangman or the baker?** *INTERNATIONAL JOURNAL OF CARDIOLOGY*
Froelicher, V.
2017; 236: 123–24
- **Percentile categorization of QT interval as an approach for identifying adult patients at risk for cardiovascular death.** *Heart rhythm*
Mohebi, R., Jehan, A., Grober, A., Froelicher, V.
2017
- **ADDRESSING REFERENCE ECHOCARDIOGRAPHIC PARAMETERS IN ATHLETIC SCREENING: A COLLEGE FOOTBALL-BASED STUDY FOCUSING ON THE IMPLICATIONS OF RACE AND CORRECTION FOR BODY COMPOSITION**
Moneghetti, K., Singh, T., Kooreman, Z., Christle, J., Froelicher, V., Wheeler, M., Ashley, E., Haddad, F.
ELSEVIER SCIENCE INC.2017: 1453
- **International criteria for electrocardiographic interpretation in athletes.** *British journal of sports medicine*
Drezner, J. A., Sharma, S., Baggish, A., Papadakis, M., Wilson, M. G., Prutkin, J. M., Gerche, A. L., Ackerman, M. J., Borjesson, M., Salerno, J. C., Asif, I. M., Owens, D. S., Chung, et al
2017

- **International Recommendations for Electrocardiographic Interpretation in Athletes.** *Journal of the American College of Cardiology*
Sharma, S., Drezner, J. A., Baggish, A., Papadakis, M., Wilson, M. G., Prutkin, J. M., La Gerche, A., Ackerman, M. J., Borjesson, M., Salerno, J. C., Asif, I. M., Owens, D. S., Chung, et al
2017; 69 (8): 1057-1075
- **International Recommendations for Electrocardiographic Interpretation in Athletes** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Sharma, S., Drezner, J. A., Baggish, A., Papadakis, M., Wilson, M. G., Prutkin, J. M., La Gerche, A., Ackerman, M. J., Borjesson, M., Salerno, J. C., Asif, I. M., Owens, D. S., Chung, et al
2017; 69 (8): 1057-75
- **International Recommendations for Electrocardiographic Interpretation in Athletes** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Sharma, S., Drezner, J. A., Baggish, A., Papadakis, M., Wilson, M. G., Prutkin, J. M., La Gerche, A., Ackerman, M. J., Borjesson, M., Salerno, J. C., Asif, I. M., Owens, D. S., Chung, et al
2017; 69 (8): 1057-1075
- **Normal computerized Q wave measurements in healthy young athletes.** *Journal of electrocardiology*
Saini, D., Grober, A. F., Hadley, D., Froelicher, V.
2017
- **Can We Improve Mortality Estimation in Women After Treadmill Testing by Using Sex-Specific Scores?** *JAMA cardiology*
Krishnaswami, A., Christle, J. W., Froelicher, V.
2016
- **Optimizing QT Interval Measurement for the Preparticipation Screening of Young Athletes.** *Medicine and science in sports and exercise*
Pickham, D., Hsu, D., Soofi, M., Goldberg, J. M., Saini, D., Hadley, D., Perez, M., Froelicher, V. F.
2016; 48 (9): 1745-1750
- **Hypertrophic Cardiomyopathy as a Cause of Sudden Cardiac Death in the Young: A Meta-Analysis** *AMERICAN JOURNAL OF MEDICINE*
Ullal, A. J., Abdelfattah, R. S., Ashley, E. A., Froelicher, V. F.
2016; 129 (5): 486-?
- **Impact of Septal Reduction on Left Atrial Size and Diastole in Hypertrophic Cardiomyopathy** *ECHOCARDIOGRAPHY-A JOURNAL OF CARDIOVASCULAR ULTRASOUND AND ALLIED TECHNIQUES*
Finocchiaro, G., Haddad, F., Kobayashi, Y., Lee, D., Pavlovic, A., Schnittger, I., Sinagra, G., Magavern, E., Myers, J., Froelicher, V., Knowles, J. W., Ashley, E.
2016; 33 (5): 686-694
- **Long-Term Prognosis of Early Repolarization With J-Wave and QRS Slur Patterns on the Resting Electrocardiogram: A Cohort Study.** *Annals of internal medicine*
Pargaonkar, V. S., Perez, M. V., Jindal, A., Mathur, M. B., Myers, J., Froelicher, V. F.
2015; 163 (10): 747-755
- **Gender Differences in Ventricular Remodeling and Function in College Athletes, Insights from Lean Body Mass Scaling and Deformation Imaging** *AMERICAN JOURNAL OF CARDIOLOGY*
Giraldeau, G., Kobayashi, Y., Finocchiaro, G., Wheeler, M., Perez, M., Kuznetsova, T., Lord, R., George, K. P., Oxborough, D., Schnittger, T., Froelicher, V., Liang, D., Ashley, et al
2015; 116 (10): 1610-1616
- **Limitations of Current AHA Guidelines and Proposal of New Guidelines for the Preparticipation Examination of Athletes** *CLINICAL JOURNAL OF SPORT MEDICINE*
Dunn, T. P., Pickham, D., Aggarwal, S., Saini, D., Kumar, N., Wheeler, M. T., Perez, M., Ashley, E., Froelicher, V. F.
2015; 25 (6): 472-477
- **A New 12-Lead ECG Prognostic Score.** *Annals of noninvasive electrocardiology : the official journal of the International Society for Holter and Noninvasive Electrocadiology, Inc*
Soofi, M., Jain, N. A., Myers, J., Froelicher, V. F.
2015; 20 (6): 554-60
- **A New 12-Lead ECG Prognostic Score** *ANNALS OF NONINVASIVE ELECTROCARDIOLOGY*
Soofi, M., Jain, N. A., Myers, J., Froelicher, V. F.
2015; 20 (6): 554-560

- **Letter by Wheeler et al Regarding Article, "Recognition and Significance of Pathological T-Wave Inversions in Athletes" CIRCULATION**
Wheeler, M. T., Adelfattah, R., Froelicher, V. F.
2015; 132 (14): E180
- **The long-term prognostic value of the Q wave criteria for prior myocardial infarction recommended in the universal definition of myocardial infarction. Journal of electrocardiology**
Perino, A. C., Soofi, M., Singh, N., Aggarwal, S., Froelicher, V.
2015; 48 (5): 798-802
- **Anatomical and functional testing did not differ for reducing CV events in suspected obstructive CAD ANNALS OF INTERNAL MEDICINE**
Froelicher, V., Bates, E. R.
2015; 163 (4): JC11
- **The Cardiovascular Preparticipation Evaluation (PPE) for the Primary Care and Sports Medicine Physician, Part I (vol 14, pg 246, 2015) CURRENT SPORTS MEDICINE REPORTS**
Asif, I. M., Roberts, W. O., Fredericson, M., Froelicher, V. F.
2015; 14 (4): 345
- **Systematic Comparison of Digital Electrocardiograms From Healthy Athletes and Patients With Hypertrophic Cardiomyopathy. Journal of the American College of Cardiology**
Bent, R. E., Wheeler, M. T., Hadley, D., Knowles, J. W., Pavlovic, A., Finocchiaro, G., Haddad, F., Salisbury, H., Race, S., Shmargad, Y., Matheson, G. O., Kumar, N., Saini, et al
2015; 65 (22): 2462-2463
- **Cardiopulmonary responses and prognosis in hypertrophic cardiomyopathy: a potential role for comprehensive noninvasive hemodynamic assessment. JACC. Heart failure**
Finocchiaro, G., Haddad, F., Knowles, J. W., Caleshu, C., Pavlovic, A., Homburger, J., Shmargad, Y., Sinagra, G., Magavern, E., Wong, M., Perez, M., Schnittger, I., Myers, et al
2015; 3 (5): 408-418
- **The ECG and the pre-participation examination of young athletes JOURNAL OF ELECTROCARDIOLOGY**
Froelicher, V., Wagner, G.
2015; 48 (3): 281-82
- **Heart Murmurs in Athletes: From Personal History and Physical Examination Sections CURRENT SPORTS MEDICINE REPORTS**
Zarafshar, S., Froelicher, V.
2015; 14 (3): 260-263
- **Are the QRS duration and ST depression cut-points from the Seattle criteria too conservative? JOURNAL OF ELECTROCARDIOLOGY**
Dunn, T., Abdelfattah, R., Aggarwal, S., Pickham, D., Hadley, D., Froelicher, V.
2015; 48 (3): 395-398
- **Computerized Q wave dimensions in athletes and hypertrophic cardiomyopathy patients JOURNAL OF ELECTROCARDIOLOGY**
Bent, R. E., Wheeler, M. T., Hadley, D., Froelicher, V., Ashley, E., Perez, M. V.
2015; 48 (3): 362-367
- **Examining QRS amplitude criteria for electrocardiographic left ventricular hypertrophy in recommendations for screening criteria in athletes. Journal of electrocardiology**
Singla, V., Jindal, A., Pargaonkar, V., Soofi, M., Wheeler, M., Froelicher, V.
2015; 48 (3): 368-372
- **A New Electrocardiographic Left Ventricular Hypertrophy Prognostic Score AMERICAN JOURNAL OF CARDIOLOGY**
Jindal, A., Singla, V., Pargaonkar, V., Froelicher, V.
2015; 115 (7): 982-985
- **THE DIAGNOSTIC VALUE OF STRESS ECHOCARDIOGRAPHY AND ELECTROCARDIOGRAPHY IN IDENTIFYING OCCULT CORONARY ABNORMALITIES IN PATIENTS WITH ANGINA AND NO OBSTRUCTIVE CORONARY ARTERY DISEASE**
Pargaonkar, V., Khandelwal, A., Kobayashi, Y., Tanaka, S., Mathur, M. B., Froelicher, V., Yeung, A., Tremmel, J.
ELSEVIER SCIENCE INC.2015: A1623
- **Update: Causes and symptoms of sudden cardiac death in young athletes PHYSICIAN AND SPORTSMEDICINE**

- Asif, I. M., Yim, E. S., Hoffman, J. M., Froelicher, V.
2015; 43 (1): 44-53
- **Long-term prognosis of early repolarization with J-wave and QRS slur patterns on the resting electrocardiogram: a cohort study.** *Annals of internal medicine*
Pargaonkar, V. S., Perez, M. V., Jindal, A. n., Mathur, M. B., Myers, J. n., Froelicher, V. F.
2015; 163 (10): 747–55
 - **Comparison of three ECG criteria for athlete pre-participation screening** *JOURNAL OF ELECTROCARDIOLOGY*
Pickham, D., Zarafshar, S., Sani, D., Kumar, N., Froelicher, V.
2014; 47 (6): 769-774
 - **A Modified Nomogram for Ramp Treadmill Testing Using the Veterans Specific Activity Questionnaire** *AMERICAN JOURNAL OF CARDIOLOGY*
Sadik, J., Myers, J., Froelicher, V.
2014; 114 (5): 803-805
 - **Impact of latent obstruction on exercise tolerance in hypertrophic cardiomyopathy**
Finocchiaro, G., Haddad, F., Knowles, J. W., Pavlovic, A., Sinagra, G., Magavern, E., Wong, M., Myers, J., Froelicher, V., Ashley, E. A.
OXFORD UNIV PRESS.2014: 927
 - **RV remodeling in college athletes engaged in mixed strength and endurance training: do the current echocardiographic reference values apply?**
Finocchiaro, G., Knowles, J. W., Perez, M., Schnittger, I., Magavern, E., Puryear, J., Sinagra, G., Froelicher, V., Ashley, E., Haddad, F.
OXFORD UNIV PRESS.2014: 729–30
 - **The long-term prognostic value of the ST depression criteria for ischemia recommended in the universal definition of myocardial infarction in 43,661 veterans** *INTERNATIONAL JOURNAL OF CARDIOLOGY*
Perino, A. C., Singh, N., Aggarwal, S., Froelicher, V.
2014; 173 (3): 494-498
 - **Is the J Wave or the ST Slope Malignant ... or Neither?** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Yong, C., Froelicher, V., Wagner, G.
2014; 63 (17): 1811–12
 - **Patterns and prognosis of all components of the J-wave pattern in multiethnic athletes and ambulatory patients.** *American heart journal*
Muramoto, D., Yong, C. M., Singh, N., Aggarwal, S., Perez, M., Ashley, E., Hadley, D., Froelicher, V.
2014; 167 (2): 259-266
 - **Do the New ECG Criteria for ST Elevation MI (STEMI) Result in Too Many Low Risk Patients Being Considered for Coronary Reperfusion Therapy?**
Soofi, M., Perino, A., Singh, N., Aggarwal, S., Froelicher, V. F.
LIPPINCOTT WILLIAMS & WILKINS.2013
 - **Presence of J-waves or Slurs in Chest Pain Patients Predicts Higher Mortality in those Diagnosed as Acute Myocardial Infarction**
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