



Victor Froelicher, MD

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

Medicine - Cardiovascular Medicine

 NIH Biosketch available Online

 Curriculum Vitae available Online

 Resume available Online

CLINICAL OFFICES

- **Stanford Health Care Cardiovascular Medicine**

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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 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. Athletic History

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.

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 Aircrewmembers – 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 aircrewmembers 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 LVBVAMC, 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 over 100 peer review publications in major journals and have led to clinical risk scores widely applied.

* 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 also removed work up bias by only including patients with chest pain who agreed to both exercise testing and coronary angiography prior to any testing.

CLINICAL FOCUS

- Sports Cardiology
- Cardiovascular Disease
- Wearable ECG devices
- Atrial Fibrillation and Exercise
- Pre-participation Evaluation

ACADEMIC APPOINTMENTS

- Professor Emeritus-Hourly, Medicine - Cardiovascular Medicine
- Member, Bio-X

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)

PROFESSIONAL EDUCATION

- Residency: Wilford Hall USAF Medical Center GME Verifications (1970) TX
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (1977)
- Board Certification: Internal Medicine, American Board of Internal Medicine (1972)
- Fellowship: University of Alabama Hospital (1972) AL
- Medical Education: University of Pittsburgh Medical Center (1967) PA

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

- **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
- **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
- **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
- **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
- **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., Amsellem, M., Ashley, E., Froelicher, V., Haddad, F.
2019
- **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
- **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
- **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

- **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)
- **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
- **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-?
- **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
- **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
- **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
- **Justification of an Introductory Electrocardiogram Teaching Mnemonic by Demonstration of its Prognostic Value** *AMERICAN JOURNAL OF MEDICINE*
Soofi, M., Yong, C., Froelicher, V.
2014; 127 (12): 1202-1207
- **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
- **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
- **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
- **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

- **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
- **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
- **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
- **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): 1057–75
- **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

- **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
- **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
- **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
- **Heart Murmurs in Athletes: From Personal History and Physical Examination Sections** *CURRENT SPORTS MEDICINE REPORTS*
Zarafshar, S., Froelicher, V.
2015; 14 (3): 260-263
- **The ECG and the pre-participation examination of young athletes** *JOURNAL OF ELECTROCARDIOLOGY*
Froelicher, V., Wagner, G.
2015; 48 (3): 281-82
- **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
- **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
- **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
- **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
- **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
 - **A New 12-Lead ECG Prognostic Score.** *Annals of noninvasive electrocardiology : the official journal of the International Society for Holter and Noninvasive Electrocardiology, Inc*
Soofi, M. n., Jain, N. A., Myers, J. n., Froelicher, V. F.
2015; 20 (6): 554-60
 - **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**
Abaecherli, R., Twerenbold, R., Reichlin, T., Schmid, H., Froelicher, V., Osswald, S., Mueller, C.
LIPPINCOTT WILLIAMS & WILKINS.2013
 - **Can the Universal Definition of Myocardial Infarction's Electrocardiogram Criteria for Prior Myocardial Infarction be Simplified?**
Perino, A. C., Soofi, M., Singh, N., Aggarwal, S., Froelicher, V.

LIPPINCOTT WILLIAMS & WILKINS.2013

- **Resting ST Amplitude: Prognosis and Normal Values in an Ambulatory Clinical Population** *ANNALS OF NONINVASIVE ELECTROCARDIOLOGY*
Zarafshar, S., Wong, M., Singh, N., Aggarwal, S., Adhikarla, C., Froelicher, V. F.
2013; 18 (6): 519-529
- **To the editor- blind men and the J wave-confusing aspects of the 2013 HRS Statement on Inherited Arrhythmic Diseases.** *Heart rhythm*
Yong, C., Froelicher, V., Wagner, G.
2013; 10 (11): e81-2
- **Prognostic implications of the J wave ECG patterns.** *Journal of electrocardiology*
Yong, C. M., Perez, M., Froelicher, V.
2013; 46 (5): 408-410
- **Symposium on the J wave patterns and a J wave syndrome** *JOURNAL OF ELECTROCARDIOLOGY*
Froelicher, V., Wagner, G.
2013; 46 (5): 381-82
- **The Stanford/PAVA data collection form for coding J waves on routine screening 10 second ECGs** *JOURNAL OF ELECTROCARDIOLOGY*
Soofi, M., Saini, D., Froelicher, V.
2013; 46 (5): 404-407
- **Association between cardiac dimensions and athlete lineup position: analysis using echocardiography in NCAA football team players.** *Physician and sportsmedicine*
Uberoi, A., Sadik, J., Lipinski, M. J., Van Le, V., Froelicher, V.
2013; 41 (3): 58-66
- **J wave patterns and ST elevation in women.** *Journal of electrocardiology*
Yong, C. M., Zarafshar, S., Froelicher, V.
2013; 46 (5): 417-423
- **Concomitant ECG findings and J wave patterns.** *Journal of electrocardiology*
Sallam, K., Froelicher, V.
2013; 46 (5): 399-403
- **Spectrum of ST amplitude: athletes and an ambulatory clinical population.** *Journal of electrocardiology*
Muramoto, D., Singh, N., Aggarwal, S., Wong, M., Adhikarla, C., Hadley, D., Froelicher, V.
2013; 46 (5): 427-433
- **J wave patterns and their prognostic value in African Americans.** *Journal of electrocardiology*
Perez, M. V., Froelicher, V.
2013; 46 (5): 442-445
- **Diagnostic utility of a novel leadless arrhythmia monitoring device.** *American journal of cardiology*
Turakhia, M. P., Hoang, D. D., Zimetbaum, P., Miller, J. D., Froelicher, V. F., Kumar, U. N., Xu, X., Yang, F., Heidenreich, P. A.
2013; 112 (4): 520-524
- **The Electrocardiogram at a Crossroads** *CIRCULATION*
Yong, C. M., Froelicher, V., Wagner, G.
2013; 128 (1): 79-82
- **Race differences in ventricular remodeling and function among college football players.** *American journal of cardiology*
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