



Jennifer Tremmel

Susan P. and Riley P. Bechtel Medical Director and Associate Professor of Medicine
(Cardiovascular Medicine)

Medicine - Cardiovascular Medicine

CLINICAL OFFICE (PRIMARY)

- **Interventional Cardiology**

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Bio

CLINICAL FOCUS

- Interventional Cardiology
- Chronic Total Occlusions (CTOs)
- Complex PCI
- Women's Cardiovascular Disease
- Microvascular Angina
- Myocardial Bridging
- MINOCA
- SCAD

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Medicine - Cardiovascular Medicine
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Director, CTO Program, (2018- present)
- Director, Radial Program, (2009- present)
- Medical Director, Women's Heart Health at Stanford, (2007- present)

PROFESSIONAL EDUCATION

- Fellowship: Stanford University School of Medicine (2006) CA
- Medical Education: University of Iowa Carver College of Medicine (1998) IA
- Residency: Dartmouth Hitchcock Medical Center (2001) NH

- Board Certification: Interventional Cardiology, American Board of Internal Medicine (2007)
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2006)
- M.D., University of Iowa , Medicine (1998)
- S.M., Harvard University , Epidemiology (2002)

LINKS

- Women's Heart Health at Stanford: <http://womensheart.stanfordhospital.com>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Jennifer Tremmel is an Interventional Cardiologist in the Division of Cardiovascular Medicine at Stanford University Medical Center. She is the Endowed Medical Director of Women's Heart Health at Stanford and conducts research on sex differences in cardiovascular disease. Much of her work has focused on patients with angina in the absence of obstructive CAD. This includes studying endothelial dysfunction, microvascular dysfunction, and myocardial bridging in patients with stable angina, and myocardial infarction with nonobstructive coronary arteries (MINOCA) and spontaneous coronary artery dissection (SCAD) in patients with acute angina. She also was an early adopter of the transradial approach and is a national expert on the topic. More recently, she started the CTO program at Stanford and has contributed to the field by demonstrating that the radial approach and same-day discharge are readily achievable in complex PCI.

CLINICAL TRIALS

- Efficacy of Targeted Medical Therapy in Angina and Nonobstructive Coronary Arteries, Recruiting
- Sex Differences in Coronary Pathophysiology, Recruiting
- Angiographic and Psychosocial Evaluation of Peripartum vs. Non: SCAD, Not Recruiting
- FAME II - Fractional Flow Reserve (FFR) Guided Percutaneous Coronary Intervention (PCI) Plus Optimal Medical Treatment (OMT) Verses OMT, Not Recruiting
- TAXUS Libert# Post Approval Study, Not Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Christopher Wong

Publications

PUBLICATIONS

- **Usefulness of temporary pacemaker during acetylcholine provocation testing** *IJC HEART & VASCULATURE*
Rehan, R., Wong, C. Y., Weaver, J., Jain, P., Adams, M., Tremmel, J. A., Ng, M. C., Yong, A. C.
2024; 53
- **Usefulness of temporary pacemaker during acetylcholine provocation testing.** *International journal of cardiology. Heart & vasculature*
Rehan, R., Wong, C. C., Weaver, J., Jain, P., Adams, M., Tremmel, J. A., Ng, M. K., Yong, A. S.
2024; 53: 101440
- **Insights From Midcareer Women in Cardiology.** *Journal of the American College of Cardiology*
Tamirisa, K. P., Ogunniyi, M. O., Chen, M. H., Contreras, J., Tong, A. T., Kadiyala, M., Tremmel, J. A., Cao, J. J., Akhter, N., Lewis, S. J.
2024; 84 (2): 219-222

- **A Systematic Approach to the Evaluation of the Coronary Microcirculation Using Bolus Thermodilution: CATH CMD.** *Journal of the Society for Cardiovascular Angiography & Interventions*
Collet, C., Yong, A., Munhoz, D., Akasaka, T., Berry, C., Blair, J. E., Collison, D., Engström, T., Escaned, J., Fearon, W. F., Ford, T., Gori, T., Koo, et al
2024; 3 (7): 101934
- **Determining the Cause of Coronary Vasomotor Disorders in Patients With Ischemia and Nonobstructive Coronary Arteries: Design and Rationale of the DISCOVER INOCA Prospective, Multicenter Registry.** *Journal of the Society for Cardiovascular Angiography & Interventions*
Shah, S. M., Tremmel, J. A., Henry, T. D., Smilowitz, N. R., Prasad, M., Kobayashi, Y., Henry, G. A., Samady, H., Samuels, B. A., Lerman, A., Moses, J. W., Pietras, C., Zhang, et al
2024; 3 (6): 102046
- **Multivessel Coronary Function Testing Increases Diagnostic Yield in Patients With Angina and Nonobstructive Coronary Arteries.** *JACC. Cardiovascular interventions*
Rehan, R., Wong, C. C., Weaver, J., Chan, W., Tremmel, J. A., Fearon, W. F., Ng, M. K., Yong, A. S.
2024; 17 (9): 1091-1102
- **Highlights From the Society for Cardiovascular Angiography & Interventions (SCAI) Scientific Sessions 2023.** *Journal of the American Heart Association*
Cader, F. A., Arshad, N., Tremmel, J. A.
2024: e031067
- **Paclitaxel-Coated Balloon vs Uncoated Balloon for Coronary In-Stent Restenosis: The AGENT IDE Randomized Clinical Trial.** *JAMA*
Yeh, R. W., Shlofmitz, R., Moses, J., Bachinsky, W., Dohad, S., Rudick, S., Stoler, R., Jefferson, B. K., Nicholson, W., Altman, J., Bateman, C., Krishnaswamy, A., Grantham, et al
2024
- **Coronary Microvascular Dysfunction.** *Journal of the Society for Cardiovascular Angiography & Interventions*
Sandoval, Y., Cigarroa, J. E., Dangas, G. D., Lansky, A. J., Naidu, S. S., Rao, S. V., Seto, A. H., Shah, S., Shroff, A. R., Toleva, O., Tremmel, J. A., Riley, R. F., Henry, et al
2024; 3 (3Part A): 101230
- **Comprehensive Management of ANOCA, Part 2-Program Development, Treatment, and Research Initiatives: JACC State-of-the-Art Review.** *Journal of the American College of Cardiology*
Smilowitz, N. R., Prasad, M., Widmer, R. J., Toleva, O., Quesada, O., Sutton, N. R., Lerman, A., Reynolds, H. R., Kesarwani, M., Savage, M. P., Sweeny, J. M., Janaszek, K. B., Barseghian El-Farra, et al
2023; 82 (12): 1264-1279
- **Comprehensive Management of ANOCA, Part 1-Definition, Patient Population, and Diagnosis: JACC State-of-the-Art Review.** *Journal of the American College of Cardiology*
Samuels, B. A., Shah, S. M., Widmer, R. J., Kobayashi, Y., Miner, S. E., Taqueti, V. R., Jeremias, A., Albadri, A., Blair, J. A., Kearney, K. E., Wei, J., Park, K., Barseghian El-Farra, et al
2023; 82 (12): 1245-1263
- **Prevention of Cardiovascular Disease in Women With Pregnancy-Related Risk Factors: A Prospective Women's Heart Clinic Study.** *Journal of the American Heart Association*
Marschner, S., Mukherjee, S., Watts, M., Min, H., Beale, A. L., O'Brien, J., Juneja, A., Tremmel, J. A., Zaman, S.
2023: e030015
- **2023 ACC/AHA/SCAI Advanced Training Statement on Interventional Cardiology (Coronary, Peripheral Vascular, and Structural Heart Interventions)** *JACC-CARDIOVASCULAR INTERVENTIONS*
Bass, T. A., Abbott, J., Mahmud, E., Parikh, S. A., Aboulhosn, J., Ashwath, M. L., Baranowski, B., Bergersen, L., Chaudry, H. I., Coylewright, M., Denktas, A. E., Gupta, K., Gutierrez, et al
2023; 16 (10): 1239-1291
- **Impact of myocardial bridging on coronary artery plaque formation and long-term mortality after heart transplantation.** *International journal of cardiology*
Tanaka, S., Okada, K., Kitahara, H., Luikart, H., Yock, P. G., Yeung, A. C., Schnittger, I., Tremmel, J. A., Fitzgerald, P. J., Khush, K. K., Fearon, W. F., Honda, Y.
2023
- **2023 ACC/AHA/SCAI Advanced Training Statement on Interventional Cardiology (Coronary, Peripheral Vascular, and Structural Heart Interventions): A Report of the ACC Competency Management Committee.** *Circulation. Cardiovascular interventions*
Bass, T. A., Abbott, J. D., Mahmud, E., Parikh, S. A., Aboulhosn, J., Ashwath, M. L., Baranowski, B., Bergersen, L., Chaudry, H. I., Coylewright, M., Denktas, A. E., Gupta, K., Gutierrez, et al

2023: e000088

- **2023 ACC/AHA/SCAI Advanced Training Statement on Interventional Cardiology (Coronary, Peripheral Vascular, and Structural Heart Interventions): A Report of the ACC Competency Management Committee.** *Journal of the American College of Cardiology*
Bass, T. A., Abbott, J. D., Mahmud, E., Parikh, S. A., Aboulhosn, J., Ashwath, M. L., Baranowski, B., Bergersen, L., Chaudry, H. I., Coylewright, M., Denktas, A. E., Gupta, K., Gutierrez, et al
2023
- **Symptomatic Myocardial Bridging in D-Transposition of the Great Arteries Post-Arterial Switch** *JACC: Case Reports, Vol 8, Iss , Pp 101730- (2023)*
Vaikunth, S. S., Murphy, D. J., Tremmel, J. A., Schnittger, I., Mitchell, R. S., Maeda, K., Rogers, I. S.
2023
- **Safety of Provocative Testing With Intracoronary Acetylcholine and Implications for Standard Protocols.** *Journal of the American College of Cardiology*
Takahashi, T., Samuels, B. A., Li, W., Parikh, M. A., Wei, J., Moses, J. W., Fearon, W. F., Henry, T. D., Tremmel, J. A., Kobayashi, Y., Microvascular Network
2022; 79 (24): 2367-2378
- **Implications of the 2021 AHA/ACC/ASE/CHEST/SAEM/SCCT/SCMR Chest Pain Guideline for Cardiovascular Imaging: A Multisociety Viewpoint.** *JACC. Cardiovascular imaging*
Blankstein, R., Shaw, L. J., Gulati, M., Atalay, M. K., Bax, J., Calnon, D. A., Dyke, C. K., Ferencik, M., Heitner, J. F., Henry, T. D., Hung, J., Knuuti, J., Lindner, et al
2022; 15 (5): 912-926
- **The 2021 AHA/ACC Guideline for the Evaluation and Diagnosis of Chest Pain: An Interventionalist's Viewpoint.** *Journal of the Society for Cardiovascular Angiography & Interventions*
Riley, R. F., Batchelor, W. B., Goldstein, J. A., Al-Lamee, R., Shah, S., Tremmel, J. A., Jaffer, F., Henry, T. D.
2022; 1 (3): 100305
- **Colocalization of Coronary Plaque with Wall Shear Stress in Myocardial Bridge Patients.** *Cardiovascular engineering and technology*
Khan, M. O., Nishi, T., Imura, S., Seo, J., Wang, H., Honda, Y., Nieman, K., Rogers, I. S., Tremmel, J. A., Boyd, J., Schnittger, I., Marsden, A.
2022
- **SCAI Expert Consensus Statement on Sex-Specific Considerations in Myocardial Revascularization.** *Journal of the Society for Cardiovascular Angiography & Interventions*
Lansky, A., Baron, S. J., Grines, C. L., Tremmel, J. A., Al-Lamee, R., Angiolillo, D. J., Chieffo, A., Croce, K., Jacobs, A. K., Madan, M., Maehara, A., Mehilli, J., Mehran, et al
2022; 1 (2): 100016
- **Association of Neighborhood Income with Clinical Outcomes Among Pregnant Patients with Cardiac Disease** *Reproductive Sciences*
Carland, C., Panelli, D. M., Leonard, S. A., Bryant, E., Sherwin, E. B., Lee, C. J., Levin, E., Jimenez, S., Tremmel, J. A., Tsai, S., Heidenreich, P. A., Bianco, K., Khandelwal, et al
2022
- **SCAI Expert Consensus Statement on Sex-Specific Considerations in Myocardial Revascularization** *Journal of the Society for Cardiovascular Angiography & Interventions*
Lansky, A., Baron, S. J., Grines, C. L., Tremmel, J. A., Al-Lamee, R., Angiolillo, D. J., Chieffo, A., Croce, K., Jacobs, A. K., Madan, M., Maehara, A., Mehilli, J., Mehran, et al
2022; 1 (2)
- **Relationship Between Coronary Atheroma, Epicardial Adipose Tissue Inflammation, and Adipocyte Differentiation Across the Human Myocardial Bridge.** *Journal of the American Heart Association*
McLaughlin, T., Schnittger, I., Nagy, A., Zanelly, E., Xu, Y., Song, Y., Nieman, K., Tremmel, J. A., Dey, D., Boyd, J., Sacks, H.
2021: e021003
- **Impact of Diastolic Vessel Restriction on Quality of Life in Symptomatic Myocardial Bridging Patients Treated With Surgical Unroofing: Preoperative Assessments With Intravascular Ultrasound and Coronary Computed Tomography Angiography.** *Circulation. Cardiovascular interventions*
Hashikata, T., Honda, Y., Wang, H., Pargaonkar, V. S., Nishi, T., Hollak, M. B., Rogers, I. S., Nieman, K., Yock, P. G., Fitzgerald, P. J., Schnittger, I., Boyd, J. H., Tremmel, et al
2021; 14 (10): e011062
- **Global Chronic Total Occlusion Crossing Algorithm: JACC State-of-the-Art Review.** *Journal of the American College of Cardiology*
Wu, E. B., Brilakis, E. S., Mashayekhi, K., Tsuchikane, E., Alaswad, K., Araya, M., Avran, A., Azzalini, L., Babunashvili, A. M., Bayani, B., Behnes, M., Bhindi, R., Boudou, et al

2021; 78 (8): 840-853

- **Abnormal shear stress and residence time are associated with proximal coronary atheroma in the presence of myocardial bridging.** *International journal of cardiology*
Yong, A. S., Pargaonkar, V. S., Wong, C. C., Javadzdegan, A., Yamada, R., Tanaka, S., Kimura, T., Rogers, I. S., Sen, I., Kritharides, L., Schnittger, I., Tremmel, J. A.
2021
- **Rationale and Design of a Randomized Study Comparing the Agent Drug Coated Balloon to Plain Old Balloon Angioplasty in Patients with In-Stent Restenosis.** *American heart journal*
Yeh, R. W., Bachinsky, W., Stoler, R., Bateman, C., Tremmel, J. A., Abbott, J. D., Dohad, S., Batchelor, W., Underwood, P., Allocco, D. J., Kirtane, A. J.
2021
- **Preliminary Support for Group Cognitive Behavioral Therapy (CBT) to Reduce Psychological Distress in Patients with Spontaneous Coronary Artery Dissection (SCAD).** *Journal of clinical psychology in medical settings*
Vaca, K. C., Tremmel, J. A., Edwards, K. S.
2021
- **IMPACT OF DIASTOLIC VESSEL RESTRICTION ON CLINICAL SYMPTOMS IN PATIENTS WITH SYMPTOMATIC MYOCARDIAL BRIDGING**
Hashikata, T., Honda, Y., Wang, H., Pargaonkar, V., Hollak, M., Rogers, I. S., Yock, P., Fitzgerald, P., Schnittger, I., Boyd, J., Tremmel, J.
ELSEVIER SCIENCE INC.2021: 165
- **TWEET4WELLNESS: PILOT FOR A TWITTER-BASED SUPPORT GROUP WITH DAILY THEORY-BASED STRATEGIES TO DECREASE SEDENTARY BEHAVIOR.**
Oppezzo, M. A., Kristopher, K., Tremmel, J., Desai, M., Baiocchi, M., Ramo, D. E., Cullen, M., Prochaska, J. J.
OXFORD UNIV PRESS INC.2021: S484
- **Perforation Mechanisms, Risk Stratification, and Management in the Non-post Coronary Artery Bypass Graft Patient.** *Interventional cardiology clinics*
Tremmel, J. A.
2021; 10 (1): 93–99
- **Invasive Assessment of Myocardial Bridging in Patients with Angina and No Obstructive Coronary Artery Disease.** *EuroIntervention : journal of EuroPCR in collaboration with the Working Group on Interventional Cardiology of the European Society of Cardiology*
Pargaonkar, V. S., Kimura, T., Kameda, R., Tanaka, S., Yamada, R., Schwartz, J. G., Perl, L., Rogers, I. S., Honda, Y., Fitzgerald, P., Schnittger, I., Tremmel, J. A.
2020
- **Effect of ranolazine on symptom and quality of life in patients with angina in the absence of obstructive coronary artery disease: A case control study** *INTERNATIONAL JOURNAL OF CARDIOLOGY*
Pargaonkar, V. S., Tremmel, J. A., Schnittger, I., Khandelwal, A.
2020; 309: 8–13
- **SCAI Position Statement on Optimal Percutaneous Coronary Interventional Therapy for Complex Coronary Artery Disease.** *Catheterization and cardiovascular interventions : official journal of the Society for Cardiac Angiography & Interventions*
Riley, R. F., Henry, T. D., Mahmud, E., Kirtane, A. J., Brilakis, E. S., Goyal, A., Grines, C. L., Lombardi, W. L., Maran, A., Rab, T., Tremmel, J. A., Truesdell, A. G., Yeh, et al
2020
- **Dose-Response Relationship Between Intracoronary Acetylcholine and Minimal Lumen Diameter in Coronary Endothelial Function Testing of Women and Men With Angina and No Obstructive Coronary Artery Disease.** *Circulation. Cardiovascular interventions*
Pargaonkar, V. S., Lee, J. H., Chow, E. K., Nishi, T., Ball, R. L., Kobayashi, Y., Kimura, T., Lee, D. P., Stefanick, M. L., Fearon, W. F., Yeung, A. C., Tremmel, J. A.
2020; 13 (4): e008587
- **Effect of ranolazine on symptom and quality of life in patients with angina in the absence of obstructive coronary artery disease: A case control study.** *International journal of cardiology*
Pargaonkar, V. S., Tremmel, J. A., Schnittger, I., Khandelwal, A.
2020
- **Accuracy of a novel stress echocardiography pattern for myocardial bridging in patients with angina and no obstructive coronary artery disease - A retrospective and prospective cohort study.** *International journal of cardiology*
Pargaonkar, V. S., Rogers, I. S., Su, J., Forsdahl, S. H., Kameda, R., Schreiber, D., Chan, F. P., Becker, H., Fleischmann, D., Tremmel, J. A., Schnittger, I.

2020

- **Sex Differences in Non-Obstructive Coronary Artery Disease.** *Cardiovascular research*
Waheed, N., Elias-Smale, S., Malas, W., Maas, A. H., Sedlak, T. L., Tremmel, J., Mehta, P. K.
2020
- **Twitter-Based Social Support Added to Fitbit Self-Monitoring for Decreasing Sedentary Behavior: Protocol for a Randomized Controlled Pilot Trial With Female Patients From a Women's Heart Clinic.** *JMIR research protocols*
Oppezzo, M. n., Tremmel, J. n., Desai, M. n., Baiocchi, M. n., Ramo, D. n., Cullen, M. n., Prochaska, J. J.
2020; 9 (12): e20926
- **Antegrade Dissection Re-Entry After Subintimal Wiring of an Occluded Vessel From Spontaneous Coronary Artery Dissection.** *JACC. Case reports*
Daniels, D. V., Pargaonkar, V. S., Nishi, T., Tremmel, J. A.
2020; 2 (1): 72-76
- **Spontaneous Coronary Artery Dissection and ST-Segment Elevation Myocardial Infarction in an Anomalous LAD Artery** *JACC: Case Reports*
Kang, G., Sarraju, A., Nishi, T., Rogers, I., Tremmel, J., Kim, J.
2020
- **Sex Differences in Oral Anticoagulation and Outcomes of Stroke and Intracranial Bleeding in Newly Diagnosed Atrial Fibrillation.** *Journal of the American Heart Association*
Yong, C. M., Tremmel, J. A., Lansberg, M. G., Fan, J. n., Askari, M. n., Turakhia, M. P.
2020: e015689
- **Computed Tomographic Angiography-Based Fractional Flow Reserve Compared With Catheter-Based Dobutamine-Stress Diastolic Fractional Flow Reserve in Symptomatic Patients With a Myocardial Bridge and No Obstructive Coronary Artery Disease.** *Circulation. Cardiovascular imaging*
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2020; 13 (2): e009576
- **Off-Pump Mini Thoracotomy Versus Sternotomy for Left Anterior Descending Myocardial Bridge Unroofing.** *The Annals of thoracic surgery*
Wang, H. n., Pargaonkar, V. S., Hironaka, C. E., Bajaj, S. S., Abbot, C. J., O'Donnell, C. T., Miller, S. L., Honda, Y. n., Rogers, I. S., Tremmel, J. A., Fischbein, M. P., Mitchell, R. S., Schnittger, et al
2020
- **A Step Back in the Diagnosis and Management of Myocardial Bridging.** *The Annals of thoracic surgery*
Schnittger, I., Boyd, J. H., Tremmel, J. A.
2019
- **Patient-Reported Psychological Distress After Spontaneous Coronary Artery Dissection: EVIDENCE FOR POST-TRAUMATIC STRESS.** *Journal of cardiopulmonary rehabilitation and prevention*
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2019
- **Psychological Distress Among Female Cardiac Patients Presenting to a Women's Heart Health Clinic** *AMERICAN JOURNAL OF CARDIOLOGY*
Edwards, K. S., Hekler, A. C., Baum, J., Nejedly, M., Tsai, S., Khandelwal, A., Naderi, S., Hoover, V., Tremmel, J. A.
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- **Psychological Distress Among Female Cardiac Patients Presenting to a Women's Heart Health Clinic.** *The American journal of cardiology*
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- **EXPRESS: Myocardial Bridge - An Unrecognized Cause of Chest Pain in Pulmonary Arterial Hypertension.** *Pulmonary circulation*
Rajmohan, D. n., Sung, Y. K., Kudelko, K. n., Perez, V. i., Haddad, F. n., Tremmel, J. n., Schnittger, I. n., Zamanian, R. T., Spiekerkoetter, E. F.
2019: 2045894019860738
- **Asymmetric dimethylarginine predicts impaired epicardial coronary vasomotion in patients with angina in the absence of obstructive coronary artery disease.** *International journal of cardiology*
Parikh, R. V., Pargaonkar, V. n., Ball, R. L., Kobayashi, Y. n., Kimura, T. n., Yeung, A. C., Cooke, J. P., Tremmel, J. A.
2019

- **Breastfeeding Duration and the Risk of Coronary Artery Disease.** *Journal of women's health* (2002)
Rajaei, S., Rigdon, J., Crowe, S., Tremmel, J., Tsai, S., Assimes, T. L.
2018
- **Breastfeeding Duration and the Risk of Coronary Artery Disease** *JOURNAL OF WOMENS HEALTH*
Rajaei, S., Rigdon, J., Crowe, S., Tremmel, J., Tsai, S., Assimes, T. L.
2019; 28 (1): 30–36
- **The Dose-Response Relationship Between Intracoronary Acetylcholine and Minimal Lumen Diameter in Endothelial Function Testing of Women and Men With Angina in the Absence of Obstructive Coronary Artery Disease**
Pargaonkar, V. S., Nishi, T., Lee, J., Chow, E. K., Ball, R. L., Kobayashi, Y., Kimura, T., Lee, D. P., Stefanick, M. L., Fearon, W. F., Yeung, A. C., Tremmel, J. A.
LIPPINCOTT WILLIAMS & WILKINS.2018
- **Diagnostic Accuracy of a Novel Stress Echocardiography Pattern for Myocardial Bridge in Patients With Angina and No Obstructive Coronary Artery Disease - a Retrospective and Prospective Validation Cohort Study**
Pargaonkar, V. S., Rogers, I. S., Su, J., Forsdahl, S., Schreiber, D., Chan, F. P., Becker, H., Fleischmann, D., Tremmel, J. A., Schnittger, I.
LIPPINCOTT WILLIAMS & WILKINS.2018
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Tremmel, J. A., Fearon, W. F.
2018; 11 (11)
- **Is Post-Percutaneous Coronary Intervention Fractional Flow Reserve of Value in Chronic Total Occlusions?** *Circulation. Cardiovascular interventions*
Tremmel, J. A., Fearon, W. F.
2018; 11 (11): e007360
- **Surgical unroofing of hemodynamically significant myocardial bridges in a pediatric population**
Maeda, K., Schnittger, I., Murphy, D. J., Tremmel, J. A., Boyd, J. H., Peng, L., Okada, K., Pargaonkar, V. S., Hanley, F. L., Mitchell, R., Rogers, I. S.
MOSBY-ELSEVIER.2018: 1618–26
- **Vascular Access-Related Complications in Women: Temporal Trends, Emerging Data, and the Current State of Interventional Cardiology Practice** *CURRENT ATHEROSCLEROSIS REPORTS*
Chacko, Y., Parikh, R. V., Tremmel, J. A.
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- **Surgical unroofing of hemodynamically significant myocardial bridges in a pediatric population.** *The Journal of thoracic and cardiovascular surgery*
Maeda, K., Schnittger, I., Murphy, D. J., Tremmel, J. A., Boyd, J. H., Peng, L., Okada, K., Pargaonkar, V. S., Hanley, F. L., Mitchell, R. S., Rogers, I. S.
2018
- **EFFECT OF RANOLAZINE ON SYMPTOMS AND QUALITY OF LIFE IN PATIENTS WITH ANGINA IN THE ABSENCE OF OBSTRUCTIVE CORONARY ARTERY DISEASE: A RETROSPECTIVE COHORT STUDY**
Pargaonkar, V., Tremmel, J., Schnittger, I., Khandelwal, A.
ELSEVIER SCIENCE INC.2018: 161
- **SUBCLINICAL LEFT VENTRICULAR DYSFUNCTION IN WOMEN WITH ANGINA IN THE ABSENCE OF OBSTRUCTIVE CORONARY ARTERY DISEASE: A COMPREHENSIVE INVASIVE AND ECHOCARDIOGRAPHIC STUDY**
Bouajila, S., Pargaonkar, V., Kobayashi, Y., Kobayashi, Y., Haddad, F., Tremmel, J.
ELSEVIER SCIENCE INC.2018: 132
- **MYOCARDIAL BRIDGE MUSCLE INDEX (MMI): A MARKER OF DISEASE SEVERITY AND ITS RELATIONSHIP WITH ENDOTHELIAL DYSFUNCTION AND SYMPTOMATIC OUTCOME IN PATIENTS WITH ANGINA AND A HEMODYNAMICALLY SIGNIFICANT MYOCARDIAL BRIDGE**
Pargaonkar, V., Schnittger, I., Rogers, I., Tanaka, S., Yamada, R., Kimura, T., Boyd, J., Tremmel, J.
ELSEVIER SCIENCE INC.2018: 160
- **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.
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