



William Fearon, MD

Professor of Medicine (Cardiovascular Medicine)

Medicine - Cardiovascular Medicine

CLINICAL OFFICE (PRIMARY)

- **Cardiovascular Medicine**

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Bio

BIO

Dr. Fearon graduated from Dartmouth College and received his medical degree from Columbia University College of Physicians and Surgeons, where he was elected into the Alpha Omega Alpha Medical Honor Society. He completed an Internal Medicine residency at Stanford University Medical Center serving an extra year as a Medical Chief Resident. He completed a General Cardiology and Interventional Cardiology fellowship at Stanford, spending his third year as the Chief Cardiology Fellow. He is currently a Professor of Medicine (Cardiology) and Chief of the Interventional Cardiology Section at Stanford University School of Medicine and the Chief of the Cardiology Section at the VA Palo Alto Health Care System. Dr. Fearon is board certified in cardiovascular medicine and interventional cardiology, and he is a fellow of the American College of Cardiology, the American Heart Association, and the Society of Cardiovascular Angiography and Interventions. He has been elected to the American Society for Clinical Investigation and the Association of University Cardiologists.

Dr. Fearon's primary area of research interest is in coronary physiology. He has been the principal investigator of numerous multicenter clinical trials, including the FAME trials, which have resulted in multiple publications in the New England Journal of Medicine and led to worldwide adoption of the use of coronary physiology to guide revascularization decisions in the cardiac catheterization laboratory. He also derived and validated the index of microcirculatory resistance, which is now used commonly to assess coronary microvascular function. He has over 300 publications, speaks regularly at major international conferences, and serves as an Associate Editor for *Circulation: Cardiovascular Interventions*, Guest Editor in Chief for *JACC:Asia*, and on the editorial board of the *Journal of the American College of Cardiology*, *Circulation*, and *JACC Cardiovascular Interventions*, among other journals. His research laboratory has had near continuous NIH funding and he is currently the principal investigator on an NIH grant evaluating cardiac allograft vasculopathy. He has received multiple teaching awards from Stanford University and has mentored numerous clinician-scientists. Dr. Fearon's clinical activities include not only percutaneous coronary intervention, but also transcatheter aortic valve replacement.

CLINICAL FOCUS

- Interventional Cardiology
- Transcatheter aortic valve replacement
- TAVR

- Percutaneous Coronary Intervention
- Aortic Stenosis
- Coronary Artery Disease
- Coronary Physiology

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Medicine - Cardiovascular Medicine
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Director, Interventional Cardiology, Stanford University Medical Center, (2013- present)

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Cardiovascular Medicine Fellowship (2002) CA
- Residency: Stanford University Internal Medicine Residency (1998) CA
- Residency: Stanford University Internal Medicine Residency (1997) CA
- Internship: Stanford University Internal Medicine Residency (1995) CA
- Board Certification: Interventional Cardiology, American Board of Internal Medicine (2002)
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2001)
- Medical Education: Columbia University College of Physicians and Surgeons (1994) NY
- M.D., Columbia University College of Physicians and Surgeons , Medicine (1994)
- B.A., Dartmouth College , English (1990)

LINKS

- Video Story: <http://www.youtube.com/watch?v=Qkxsr6vLK-A>
- Video Story: <http://www.youtube.com/watch?v=Qkxsr6vLK-A>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Fearon's general research interest is coronary physiology. In particular, he is investigating invasive methods for evaluating the coronary microcirculation. His research is currently funded by an NIH R01 Award.

CLINICAL TRIALS

- A Study of Low-dose Intracoronary Thrombolytic Therapy in STEMI (Heart Attack) Patients., Recruiting
- Edwards PASCAL CLASP IID/IIF Pivotal Clinical Trial, Recruiting
- PCSK9 Inhibition After Heart Transplantation, Recruiting
- Portico Re-sheathable Transcatheter Aortic Valve System US IDE Trial, Recruiting
- Transcatheter Mitral Valve Replacement With the Medtronic Intrepid™ TMVR System in Patients With Severe Symptomatic Mitral Regurgitation., Recruiting
- A Comparison of Fractional Flow Reserve-Guided Percutaneous Coronary Intervention and Coronary Artery Bypass Graft Surgery in Patients With Multivessel Coronary Artery Disease, Not Recruiting
- Angiotensin Converting Enzyme (ACE) Inhibition and Cardiac Allograft Vasculopathy, Not Recruiting
- Assessment of Catheter-based Interrogation and Standard Techniques for Fractional Flow Reserve Measurement, Not Recruiting

- CONTRAST (Can cONTrast Injection Better Approximate FFR compAred to Pure reSTing Physiology?), Not Recruiting
- FAME II - Fractional Flow Reserve (FFR) Guided Percutaneous Coronary Intervention (PCI) Plus Optimal Medical Treatment (OMT) Verses OMT, Not Recruiting
- Fractional Flow Reserve Versus Angiography for Multivessel Evaluation (F.A.M.E.), Not Recruiting
- TAXUS Libert# Post Approval Study, Not Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Medicine (Masters Program)

Publications

PUBLICATIONS

- **Fractional Flow Reserve-Guided PCI or Coronary Bypass Surgery for 3-Vessel Coronary Artery Disease: 3-Year Follow-Up of the FAME 3 Trial.** *Circulation*
Zimmermann, F. M., Ding, V. Y., Pijls, N. H., Piroth, Z., van Straten, A. H., Szekely, L., Davidavicius, G., Kalinauskas, G., Mansour, S., Kharbanda, R., Östlund-Papadogeorgos, N., Aminian, A., Oldroyd, et al
2023
- **Fractional Flow Reserve-Guided PCI as Compared with Coronary Bypass Surgery. Reply.** *The New England journal of medicine*
Fearon, W. F., Zimmermann, F. M., Pijls, N. H.
2022; 386 (19): 1865-1866
- **Quality of Life After Fractional Flow Reserve-Guided PCI Compared with Coronary Bypass Surgery.** *Circulation*
Fearon, W. F., Zimmermann, F. M., Ding, V. Y., Zelis, J. M., Piroth, Z., Davidavicius, G., Mansour, S., Kharbanda, R., Ostlund-Papadogeorgos, N., Oldroyd, K. G., Wendler, O., Reardon, M. J., Woo, et al
2022
- **Microcirculatory Resistance Predicts Allograft Rejection and Cardiac Events After Heart Transplantation.** *Journal of the American College of Cardiology*
Ahn, J., Zimmermann, F. M., Gullestad, L., Angeras, O., Karason, K., Russell, K., Lunde, K., Okada, K., Luikart, H., Khush, K. K., Honda, Y., Pijls, N. H., Lee, et al
2021; 78 (24): 2425-2435
- **Fractional Flow Reserve-Guided PCI as Compared with Coronary Bypass Surgery.** *The New England journal of medicine*
Fearon, W. F., Zimmermann, F. M., De Bruyne, B., Piroth, Z., van Straten, A. H., Szekely, L., Davidavicius, G., Kalinauskas, G., Mansour, S., Kharbanda, R., Ostlund-Papadogeorgos, N., Aminian, A., Oldroyd, et al
2021
- **Utilization and Outcomes of Measuring Fractional Flow Reserve in Patients With Stable Ischemic Heart Disease.** *Journal of the American College of Cardiology*
Parikh, R. V., Liu, G. n., Plomondon, M. E., Sehested, T. S., Hlatky, M. A., Waldo, S. W., Fearon, W. F.
2020; 75 (4): 409-19
- **Five-Year Outcomes of Transcatheter or Surgical Aortic-Valve Replacement.** *The New England journal of medicine*
Makkar, R. R., Thourani, V. H., Mack, M. J., Kodali, S. K., Kapadia, S., Webb, J. G., Yoon, S., Trento, A., Svensson, L. G., Herrmann, H. C., Szeto, W. Y., Miller, D. C., Satler, et al
2020; 382 (9)
- **Accuracy of Fractional Flow Reserve Derived From Coronary Angiography** *CIRCULATION*
Fearon, W. F., Achenbach, S., Engstrom, T., Assali, A., Shlofmitz, R., Jeremias, A., Fournier, S., Kirtane, A. J., Kornowski, R., Greenberg, G., Jubeh, R., Kolansky, D. M., McAndrew, et al
2019; 139 (4): 477-84
- **Fractional Flow Reserve and Quality-of-Life Improvement After Percutaneous Coronary Intervention in Patients With Stable Coronary Artery Disease.** *Circulation*
Nishi, T., Piroth, Z., De Bruyne, B., Jagic, N., Mobius-Winkler, S., Kobayashi, Y., Derimay, F., Fournier, S., Barbato, E., Tonino, P., Juni, P., Pijls, N. H., Fearon, et al

2018; 138 (17): 1797–1804

- **Accuracy of Fractional Flow Reserve Derived From Coronary Angiography.** *Circulation*
Fearon, W. F., Achenbach, S., Engstrom, T., Assali, A., Shlofmitz, R., Jeremias, A., Fournier, S., J Kirtane, A., Kornowski, R., Greenberg, G., Jubeh, R., Kolansky, D. M., McAndrew, et al
2018
- **Prognostic Value of the Residual SYNTAX Score After Functionally Complete Revascularization in ACS.** *Journal of the American College of Cardiology*
Kobayashi, Y., Lonborg, J., Jong, A., Nishi, T., De Bruyne, B., Hofsten, D. E., Kelbak, H., Layland, J., Nam, C., Pijls, N. H., Tonino, P. A., Warnoe, J., Oldroyd, et al
2018; 72 (12): 1321–29
- **Five-Year Outcomes with PCI Guided by Fractional Flow Reserve.** *The New England journal of medicine*
Xaplanteris, P., Fournier, S., Pijls, N. H., Fearon, W. F., Barbato, E., Tonino, P. A., Engstrom, T., Kaab, S., Dambrink, J., Rioufol, G., Toth, G. G., Piroth, Z., Witt, et al
2018
- **Clinical Outcomes and Cost-Effectiveness of Fractional Flow Reserve-Guided Percutaneous Coronary Intervention in Patients With Stable Coronary Artery Disease: Three-Year Follow-Up of the FAME 2 Trial (Fractional Flow Reserve Versus Angiography for Multivessel Evaluation)** *CIRCULATION*
Fearon, W. F., Nishi, T., De Bruyne, B., Boothroyd, D. B., Barbato, E., Tonino, P., Juni, P., Pijls, N. J., Hlatky, M. A., FAME 2 Trial Investigators
2018; 137 (5): 480–87
- **Invasive Assessment of the Coronary Microvasculature: The Index of Microcirculatory Resistance.** *Circulation. Cardiovascular interventions*
Fearon, W. F., Kobayashi, Y. n.
2017; 10 (12)
- **Transcatheter or Surgical Aortic-Valve Replacement in Intermediate-Risk Patients** *NEW ENGLAND JOURNAL OF MEDICINE*
Leon, M. B., Smith, C. R., Mack, M. J., Makkar, R. R., Svensson, L. G., Kodali, S. K., Thourani, V. H., Tuzcu, E. M., Miller, D. C., Herrmann, H. C., Doshi, D., Cohen, D. J., Pichard, et al
2016; 374 (17): 1609-1620
- **The Prognostic Value of Residual Coronary Stenoses After Functionally Complete Revascularization** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Kobayashi, Y., Nam, C., Tonino, P. A., Kimura, T., De Bruyne, B., Pijls, N. H., Fearon, W. F.
2016; 67 (14): 1701-1711
- **Invasive Coronary Physiology for Assessing Intermediate Lesions** *CIRCULATION-CARDIOVASCULAR INTERVENTIONS*
Fearon, W. F.
2015; 8 (2)
- **Fractional Flow Reserve-Guided PCI for Stable Coronary Artery Disease** *NEW ENGLAND JOURNAL OF MEDICINE*
De Bruyne, B., Fearon, W. F., Pijls, N. H., Barbato, E., Tonino, P., Piroth, Z., Jagic, N., Mobius-Winckler, S., Rioufol, G., Witt, N., Kala, P., MacCarthy, P., Engstroem, et al
2014; 371 (13): 1208-1217
- **Fractional flow reserve-guided PCI for stable coronary artery disease.** *New England journal of medicine*
De Bruyne, B., Fearon, W. F., Pijls, N. H., Barbato, E., Tonino, P., Piroth, Z., Jagic, N., Mobius-Winckler, S., Rioufol, G., Witt, N., Kala, P., MacCarthy, P., Engström, et al
2014; 371 (13): 1208-1217
- **Fractional Flow Reserve- Guided Percutaneous Coronary Intervention: Is it a Valid Concept?** *CIRCULATION*
Fearon, W. F.
2014; 129 (18): 1860-1870
- **Cost-Effectiveness of Percutaneous Coronary Intervention in Patients With Stable Coronary Artery Disease and Abnormal Fractional Flow Reserve** *CIRCULATION*
Fearon, W. F., Shilane, D., Pijls, N. H., Boothroyd, D. B., Tonino, P. A., Barbato, E., Jueni, P., De Bruyne, B., Hlatky, M. A.
2013; 128 (12): 1335-1340
- **Prognostic Value of the Index of Microcirculatory Resistance Measured After Primary Percutaneous Coronary Intervention** *CIRCULATION*
Fearon, W. F., Low, A. F., Yong, A. S., McGeoch, R., Berry, C., Shah, M. G., Ho, M. Y., Kim, H., Loh, J. P., Oldroyd, K. G.

2013; 127 (24): 2436-2441

- **Fractional Flow Reserve-Guided PCI versus Medical Therapy in Stable Coronary Disease** *NEW ENGLAND JOURNAL OF MEDICINE*
De Bruyne, B., Pijls, N. H., Kalesan, B., Barbato, E., Tonino, P. A., Piroth, Z., Jagic, N., Mobius-Winckler, S., Rioufol, G., Witt, N., Kala, P., MacCarthy, P., Engstrom, et al
2012; 367 (11): 991-1001
- **Functional SYNTAX Score for Risk Assessment in Multivessel Coronary Artery Disease** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Nam, C., Mangiacapra, F., Entjes, R., Chung, I., Sels, J., Tonino, P. A., De Bruyne, B., Pijls, N. H., Fearon, W. F.
2011; 58 (12): 1211-1218
- **Economic Evaluation of Fractional Flow Reserve-Guided Percutaneous Coronary Intervention in Patients With Multivessel Disease** *CIRCULATION*
Fearon, W. F., Bornschein, B., Tonino, P. A., Gothe, R. M., De Bruyne, B., Pijls, N. H., Siebert, U.
2010; 122 (24): 2545-2550
- **Fractional Flow Reserve versus Angiography for Guiding Percutaneous Coronary Intervention** *NEW ENGLAND JOURNAL OF MEDICINE*
Tonino, P. A., De Bruyne, B., Pijls, N. H., Siebert, U., Ikeno, F., van 't Veer, M., Klauss, V., Manoharan, G., Engstrom, T., Oldroyd, K. G., Lee, P. N., MacCarthy, P. A., Fearon, et al
2009; 360 (3): 213-224
- **Predictive value of the index of microcirculatory resistance in patients with ST-segment elevation myocardial infarction** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Fearon, W. F., Shah, M., Ng, M., Brinton, T., Wilson, A., Tremmel, J. A., Schnittger, I., Lee, D. P., Vagelos, R. H., Fitzgerald, P. J., Yock, P. G., Yeung, A. C.
2008; 51 (5): 560-565
- **Rationale and design of the fractional flow reserve versus angiography for multivessel evaluation (FAME) study** *AMERICAN HEART JOURNAL*
Fearon, W. F., Tonino, P. A., De Bruyne, B., Siebert, U., Pijls, N. H.
2007; 154 (4): 632-636
- **Invasive assessment of the coronary microcirculation - Superior reproducibility and less hemodynamic dependence of index of microcirculatory resistance compared with coronary flow reserve** *CIRCULATION*
Ng, M. K., Yeung, A. C., Fearon, W. F.
2006; 113 (17): 2054-2061
- **Microvascular resistance is not influenced by epicardial coronary artery stenosis severity - Experimental validation** *CIRCULATION*
Fearon, W. F., Aarnoudse, W., Pijls, N. H., De Bruyne, B., Balsam, L. B., Cooke, D. T., Robbins, R. C., Fitzgerald, P. J., Yeung, A. C., Yock, P. G.
2004; 109 (19): 2269-2272
- **Novel index for invasively assessing the coronary microcirculation** *CIRCULATION*
Fearon, W. F., Balsam, L. B., Farouque, H. M., Robbins, R. C., Fitzgerald, P. J., Yock, P. G., Yeung, A. C.
2003; 107 (25): 3129-3132
- **Differential Effect of Aortic Valve Replacement for Severe Aortic Stenosis on Hyperemic and Resting Epicardial Coronary Pressure Indices.** *Journal of the American Heart Association*
Minten, L., Bennett, J., Otsuki, H., Takahashi, K., Fearon, W. F., Dubois, C.
2024; 13 (10): e034401
- **Influence of Pathophysiological Patterns of Coronary Artery Disease on Immediate Percutaneous Coronary Intervention Outcomes.** *Circulation*
Collet, C., Munhoz, D., Mizukami, T., Sonck, J., Matsuo, H., Shinke, T., Ando, H., Ko, B., Biscaglia, S., Rivero, F., Engstrom, T., Arslani, K., Leone, et al
2024
- **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
- **Prognostic Value of Microvascular Resistance Reserve Measured Immediately After PCI in Stable Coronary Artery Disease.** *Circulation. Cardiovascular interventions*
Nishi, T., Murai, T., Waseda, K., Hirohata, A., Yong, A. S., Ng, M. K., Amano, T., Barbato, E., Kakuta, T., Fearon, W. F.
2024: e013728

- **Underrepresentation of Women in Revascularization Trials.** *JAMA cardiology*
Yong, C. M., Fearon, W. F.
2024
- **Prognostic Value of Microvascular Resistance Reserve After Percutaneous Coronary Intervention in Patients With Myocardial Infarction.** *Journal of the American College of Cardiology*
Eerdeken, R., El Farissi, M., De Maria, G. L., van Royen, N., van 't Veer, M., van Leeuwen, M. A., Hoole, S. P., Marin, F., Carrick, D., Tonino, P. A., Pijls, N. H., Fineschi, M., Oldroyd, et al
2024
- **Optimization of Absolute Coronary Blood Flow Measurements to Assess Microvascular Function: In Vivo Validation of Hyperemia and Higher Infusion Speeds.** *Circulation. Cardiovascular interventions*
Minten, L., Bennett, J., McCutcheon, K., Oosterlinck, W., Algoet, M., Otsuki, H., Takahashi, K., Fearon, W. F., Dubois, C.
2024; e013860
- **Sex-Specific Disparities in Clinical Outcomes After Transcatheter Aortic Valve Replacement Among Different Racial Populations.** *JACC. Asia*
Kim, M., Kang, D. Y., Ahn, J. M., Kim, J. B., Yeung, A. C., Nishi, T., Fearon, W. F., Canteley, E. P., Flaherty, J. D., Davidson, C. J., Malaisrie, S. C., Kim, H. J., Lee, et al
2024; 4 (4): 292-302
- **Optical Coherence Tomography-Based Functional Stenosis Assessment: FUSION-A Prospective Multicenter Trial.** *Circulation. Cardiovascular interventions*
Jeremias, A., Maehara, A., Matsumura, M., Shlofmitz, R. A., Maksoud, A., Akasaka, T., Bezerra, H. G., Fearon, W. F., Samady, H., Samuels, B., Rapkin, J., Gopinath, A., Teraphongphom, et al
2024; e013702
- **Response by Zimmermann et al to Letter Regarding Article, "Fractional Flow Reserve-Guided PCI or Coronary Bypass Surgery for 3-Vessel Coronary Artery Disease: 3-Year Follow-Up of the FAME 3 Trial".** *Circulation*
Zimmermann, F. M., Ding, V. Y., Fearon, W. F.
2024; 149 (11): 896
- **Long-term prognostic implications of CT angiography-derived fractional flow reserve: Results from the DISCOVER-FLOW study.** *Journal of cardiovascular computed tomography*
Yang, S., Chung, J., Lesina, K., Doh, J. H., Jegere, S., Erglis, A., Leipsic, J. A., Fearon, W. F., Narula, J., Koo, B. K.
2024
- **Measuring Absolute Coronary Flow and Microvascular Resistance by Thermodilution: JACC Review Topic of the Week.** *Journal of the American College of Cardiology*
Belmonte, M., Gallinoro, E., Pijls, N. H., Bertolone, D. T., Keulards, D. C., Viscusi, M. M., Storozhenko, T., Mizukami, T., Mahendiran, T., Seki, R., Fournier, S., de Vos, A., Adedj, et al
2024; 83 (6): 699-709
- **Optimization of absolute coronary blood flow measurements to assess microvascular function in sheep: validation of hyperaemia and higher infusion speeds**
Minten, L., Bennett, J., McCutcheon, K., Oosterlinck, W., Algoet, M., Otsuki, H., Takahashi, K., Fearon, W., Dubois, C.
TAYLOR & FRANCIS LTD.2024: 15
- **Associations of Sarcopenia and Body Composition Measures With Mortality After Transcatheter Aortic Valve Replacement.** *Circulation. Cardiovascular interventions*
Stein, E. J., Neill, C., Nair, S., Terry, J. G., Carr, J. J., Fearon, W. F., Elmariah, S., Kim, J. B., Kapadia, S., Kumbhani, D. J., Gillam, L., Whisenant, B., Quader, et al
2024; e013298
- **REPLY: Decoding the Index of Microcirculatory Resistance What Does it Mean in Myocardial Infarction?** *JACC-CARDIOVASCULAR INTERVENTIONS*
El Farissi, M., Zimmermann, F. M., Fearon, W. F.
2024; 17 (1): 105
- **Cost-Effectiveness of Fractional Flow Reserve-Guided Complete Revascularization in Acute Myocardial Infarction-Tipping the Scales?** *JAMA network open*
Chester, R. C., Fearon, W. F., Parikh, R. V.
2024; 7 (1): e2352425

- **Diagnostic performances of Nonhyperemic Pressure Ratios and Coronary Angiography-Based Fractional Flow Reserve against conventional Wire-Based Fractional Flow Reserve.** *Coronary artery disease*
Li, W., Takahashi, T., Sehatbakhsh, S., Parikh, M. A., Garcia-Garcia, H. M., Fearon, W. F., Kobayashi, Y.
2023
- **Where Do We Go With Abnormal Flow?** *JACC. Asia*
Wong, C. C., Fearon, W. F.
2023; 3 (6): 878-880
- **Practical Application of Coronary Physiologic Assessment: Asia-Pacific Expert Consensus Document: Part 2.** *JACC. Asia*
Koo, B. K., Hwang, D., Park, S., Kuramitsu, S., Yonetsu, T., Kim, C. H., Zhang, J., Yang, S., Doh, J. H., Jeong, Y. H., Choi, K. H., Lee, J. M., Ahn, et al
2023; 3 (6): 825-842
- **Sex Differences in Patients With 3-Vessel Coronary Artery Disease Undergoing FFR-Guided PCI or CABG: A Prespecified Analysis of the FAME 3 Trial**
Takahashi, K., Otsuki, H., Zimmermann, F., Ding, V., Oldroyd, K., Wendler, O., Reardon, M., Woo, J., Yeung, A., Fearon, W.
ELSEVIER SCIENCE INC.2023: B136
- **Impact of Chronic Total Occlusions on Outcomes in the FAME 3 Trial**
Otsuki, H., Takahashi, K., Zimmermann, F., Mavromatis, K., Aminian, A., Dambrink, J., Kala, P., MacCarthy, P., Witt, N., de Bruyne, B., Pijls, N., Fearon, W.
ELSEVIER SCIENCE INC.2023: B55
- **Prognostic value of intravascular ultrasound early after heart transplantation.** *European heart journal*
Arora, S., Zimmermann, F. M., Solberg, O. G., Nytrøen, K., Aaberge, L., Okada, K., Ahn, J. M., Honda, Y., Khush, K. K., Angeras, O., Karason, K., Gullestad, L., Fearon, et al
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- **Impact of Post-PCI FFR Stratified by Coronary Artery.** *JACC. Cardiovascular interventions*
Collet, C., Johnson, N. P., Mizukami, T., Fearon, W. F., Berry, C., Sonck, J., Collison, D., Koo, B. K., Meneveau, N., Agarwal, S. K., Uretsky, B., Hakeem, A., Doh, et al
2023; 16 (19): 2396-2408
- **The Index of Microcirculatory Resistance After Primary PCI: A Pooled Analysis of Individual Patient Data.** *JACC. Cardiovascular interventions*
El Farissi, M., Zimmermann, F. M., De Maria, G. L., van Royen, N., van Leeuwen, M. A., Carrick, D., Carberry, J., Wijnbergen, I. F., Konijnenberg, L. S., Hoole, S. P., Marin, F., Fineschi, M., Pijls, et al
2023; 16 (19): 2383-2392
- **Practical Application of Coronary Physiologic Assessment: Asia-Pacific Expert Consensus Document: Part 1.** *JACC. Asia*
Koo, B., Lee, J. M., Hwang, D., Park, S., Shiono, Y., Yonetsu, T., Lee, S. H., Kawase, Y., Ahn, J., Matsuo, H., Shin, E., Hu, X., Ding, et al
2023; 3 (5): 689-706
- **Proteomic architecture of frailty across the spectrum of cardiovascular disease.** *Aging cell*
Perry, A. S., Zhao, S., Gajjar, P., Murthy, V. L., Lehallier, B., Miller, P., Nair, S., Neill, C., Carr, J. J., Fearon, W., Kapadia, S., Kumbhani, D., Gillam, et al
2023
- **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
- **Outcomes Based on Angiographic vs Functional Significance of Complex 3-Vessel Coronary Disease: FAME 3 Trial.** *JACC. Cardiovascular interventions*
Kobayashi, Y., Takahashi, T., Zimmermann, F. M., Otsuki, H., El Farissi, M., Oldroyd, K. G., Wendler, O., Reardon, M. J., Woo, Y. J., Yeung, A. C., De Bruyne, B., Pijls, N. H., Fearon, et al
2023; 16 (17): 2112-2119

- **Is COMPLETE Revascularization Beneficial in Diabetic Patients With Multivessel CAD Undergoing Primary PCI for STEMI?** *CIRCULATION-CARDIOVASCULAR INTERVENTIONS*
Ryan, N., Fearon, W. F.
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