



Michael Fischbein

Thelma and Henry Doelger Professor of Cardiovascular Surgery
Cardiothoracic Surgery

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Cardiothoracic Surgery Clinic**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Ray Aguirre - Administrative Associate

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Bio

CLINICAL FOCUS

- Cardiothoracic Surgery
- Aortic Diseases
- Anomalous Coronary Artery (ACA)
- Aortic Stenosis
- Bicuspid Aortic Valve Disease
- Coarctation of the Aorta
- Coronary Artery Disease
- Rheumatic Heart Disease
- Thoracic Aortic Aneurysm (TAA)
- Valvular Heart Disease
- Abdominal Aneurysm Open Repair
- Aortic Valve Surgery
- Coronary Artery Bypass Graft Surgery
- Dissection
- Endovascular Aneurysm Repair
- Endovascular Stent Graft
- Heart Surgery
- Heart Valve Replacement/Repair
- Marfan Syndrome
- Loeys-Dietz Syndrome
- Transcatheter Aortic Valve Replacement (TAVR)

- Thoracic Aortic Aneurysm Open Repair
- Transcatheter Aortic Valve Implantation (TAVI)
- Valvular Surgery
- Thoracic and Cardiac Surgery

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Cardiothoracic Surgery
- Member, Cardiovascular Institute

HONORS AND AWARDS

- Alpha Omega Alpha, Boston University School of Medicine (1994)
- Cum Laude Graduate, Boston University School of Medicine (1995)
- Caves Scientific Award, International Society for Heart and Lung Transplantation - Osaka, Japan (2000)
- Golden Scalpel Award for Teaching Excellence, Division of General Surgery - UCLA School of Medicine (2003)
- Ronald K. Tompkins Golden Apple Teaching Award, UCLA School of Medicine (2003)
- Donald Morton Research Award, Department of Surgery - UCLA School of Medicine (2003)

PROFESSIONAL EDUCATION

- Board Certification: Thoracic and Cardiac Surgery, American Board of Thoracic Surgery (2007)
- Medical Education: Boston University School of Medicine (1995) MA
- PhD Training: University of California Los Angeles (2001) CA
- Fellowship: Stanford University Dept of Cardiothoracic Surgery (2006) CA
- Residency: UCLA General Surgery Residency (2003) CA
- PhD, University of California, Los Angeles, Microbiology and Immunology (2001)
- MD, Boston University School of Medicine, Medicine - Cum Laude (1995)
- BS, University of California, Los Angeles, Kinesiology (1990)

LINKS

- Stanford Adult Cardiac Services: <http://med.stanford.edu/ctsurgery/clinical-care/adult-cardiac-surgery-services.html>
- Make an Appointment: <http://med.stanford.edu/ctsurgery/contact-us.html#division-of-adult-cardiac-surgery>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>
- Stanford Thoracic Aortic Lab: <http://med.stanford.edu/fischbeinlab.html>
- Dr. Michael P. Fischbein Fellowship in Cardiothoracic Surgery Research: <http://med.stanford.edu/cssec/student-fellowship.html#dr.-michael-p.-fischbein-fellowship-in-cardiothoracic-surgery-research>
- Follow us on Twitter: <https://twitter.com/StanfordCTSurg>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Molecular and genetic mechanisms of aortic aneurysm/dissection development. Molecular mechanisms of aneurysm formation in Marfan Syndrome.
Clinical research interests include thoracic aortic diseases (aneurysms, dissections).

CLINICAL TRIALS

- Evaluation of the GORE® TBE Device in the Treatment of Lesions of the Aortic Arch and Descending Thoracic Aorta, Zone 0/1, Recruiting

- PARTNER 3 Trial: Safety and Effectiveness of the SAPIEN 3 Transcatheter Heart Valve in Low Risk Patients With Aortic Stenosis, Recruiting
- PROACT Xa - A Trial to Determine if Participants With an On-X Aortic Valve Can be Maintained Safely on Apixaban, Not Recruiting
- Safety and Efficacy Study of the Medtronic CoreValve® System in the Treatment of Severe, Symptomatic Aortic Stenosis in Intermediate Risk Subjects Who Need Aortic Valve Replacement (SURTAVAL), Not Recruiting

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Olivia Canter

Postdoctoral Faculty Sponsor

Yan Min

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cardiothoracic Surgery (Fellowship Program)

Publications

PUBLICATIONS

- **Loeys-Dietz Syndrome: 2026 updated care management primer.** *Genetics in medicine : official journal of the American College of Medical Genetics*
MacCarrick, G., Afifi, R. O., Allen, R., Almpiani, K., Black, J. H., Boyce, A. M., Braverman, A. C., Cameron, D. E., Caplan, J., Cervi, E., Cha, M. J., Christensen, J., van de Laar, et al
2026: 102577
- **Loeys-Dietz syndrome subtypes exhibit distinct clinical behavior and aortic cellular transcriptomic profiles.** *JTCVS open*
Pedroza, A. J., Dalal, A. R., Kim, J., Duda, M., Tognozzi, E., Gilles, C., Miller, D. C., Fischbein, M. P.
2025; 26: 1-14
- **Chemokine (C-C Motif) Ligand 2 Expressing Adventitial Fibroblast Expansion During Loeys-Dietz Syndrome Aortic Aneurysm Formation.** *Arteriosclerosis, thrombosis, and vascular biology*
Dalal, A. R., Pedroza, A. J., Kim, J., Gilles, C., Gu, W., Kusadokoro, S., Shad, R., Mitchel, O., Jackson, W., Hiesinger, W., Berry, G., Gallo MacFarlane, E., Quertermous, et al
2025
- **Early clinical outcomes and molecular smooth muscle cell phenotyping using a prophylactic aortic arch replacement strategy in Loeys-Dietz syndrome.** *The Journal of thoracic and cardiovascular surgery*
Pedroza, A. J., Cheng, P., Dalal, A. R., Baeumler, K., Kino, A., Tognozzi, E., Shad, R., Yokoyama, N., Nakamura, K., Mitchel, O., Hiesinger, W., MacFarlane, E. G., Fleischmann, et al
2023
- **Smooth Muscle Cell Klf4 Expression Is Not Required for Phenotype Modulation or Aneurysm Formation in Marfan Syndrome Mice.** *Arteriosclerosis, thrombosis, and vascular biology*
Pedroza, A. J., Dalal, A. R., Shad, R., Yokoyama, N., Nakamura, K., Mitchel, O., Gilles, C., Hiesinger, W., Fischbein, M. P.
2023
- **Lineage-Specific Induced Pluripotent Stem Cell-Derived Smooth Muscle Cell Modeling Predicts Integrin Alpha-V Antagonism Reduces Aortic Root Aneurysm Formation in Marfan Syndrome Mice.** *Arteriosclerosis, thrombosis, and vascular biology*
Nakamura, K., Dalal, A. R., Yokoyama, N., Pedroza, A. J., Kusadokoro, S., Mitchel, O., Gilles, C., Masoudian, B., Leipzig, M., Casey, K. M., Hiesinger, W., Uchida, T., Fischbein, et al
2023
- **Outcomes of Reoperative Aortic Root Replacement After Previous Acute Type A Dissection Repair.** *Seminars in thoracic and cardiovascular surgery*
Pedroza, A. J., Dalal, A. R., Krishnan, A., Yokoyama, N., Nakamura, K., Tognozzi, E., Woo, Y. J., Macarthur, J. W., Fischbein, M. P.

2023

- **Embryologic Origin Influences Smooth Muscle Cell Phenotypic Modulation Signatures in Murine Marfan Syndrome Aortic Aneurysm.** *Arteriosclerosis, thrombosis, and vascular biology*
Pedroza, A. J., Dalal, A. R., Shad, R., Yokoyama, N., Nakamura, K., Cheng, P., Wirka, R. C., Mitchel, O., Baiocchi, M., Hiesinger, W., Quertermous, T., Fischbein, M. P.
2022: 101161ATVBAHA122317381
- **Quantitative proteomics reveal lineage-specific protein profiles in iPSC-derived Marfan syndrome smooth muscle cells.** *Scientific reports*
Iosef, C., Pedroza, A. J., Cui, J. Z., Dalal, A. R., Arakawa, M., Tashima, Y., Koyano, T. K., Burdon, G., Churovich, S. M., Orrick, J. O., Pariani, M., Fischbein, M. P.
2020; 10 (1): 20392
- **Androgens Accentuate TGF-beta Dependent Erk/Smad Activation During Thoracic Aortic Aneurysm Formation in Marfan Syndrome Male Mice.** *Journal of the American Heart Association*
Tashima, Y., He, H., Cui, J. Z., Pedroza, A. J., Nakamura, K., Yokoyama, N., Iosef, C., Burdon, G., Koyano, T., Yamaguchi, A., Fischbein, M. P.
2020; 9 (20): e015773
- **Single-Cell Transcriptomic Profiling of Vascular Smooth Muscle Cell Phenotype Modulation in Marfan Syndrome Aortic Aneurysm.** *Arteriosclerosis, thrombosis, and vascular biology*
Pedroza, A. J., Tashima, Y., Shad, R., Cheng, P., Wirka, R., Churovich, S., Nakamura, K., Yokoyama, N., Cui, J. Z., Iosef, C., Hiesinger, W., Quertermous, T., Fischbein, et al
2020: ATVBAHA120314670
- **Time-to-operation does not predict outcome in acute type A aortic dissection complicated by neurologic injury at presentation** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Chiu, P., Rotto, T. J., Goldstone, A. B., Whisenant, J. B., Woo, Y., Fischbein, M. P.
2019; 158 (3): 665–72
- **Time-to-operation does not predict outcome in acute type A aortic dissection complicated by neurologic injury at presentation.** *The Journal of thoracic and cardiovascular surgery*
Chiu, P., Rotto, T. J., Goldstone, A. B., Whisenant, J. B., Woo, Y. J., Fischbein, M. P.
2018
- **Statins Reduce Thoracic Aortic Aneurysm Growth in Marfan Syndrome Mice via Inhibition of the Ras-Induced ERK (Extracellular Signal-Regulated Kinase) Signaling Pathway** *JOURNAL OF THE AMERICAN HEART ASSOCIATION*
Sato, T., Arakawa, M., Tashima, Y., Tsuboi, E., Burdon, G., Trojan, J., Koyano, T., Young-Nam Youn, Penov, K., Pedroza, A. J., Shabazzi, M., Palmon, I., Nguyen, M., et al
2018; 7 (21): e008543
- **Immediate operation for acute type A aortic dissection complicated by visceral or peripheral malperfusion** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Chiu, P., Tsou, S., Goldstone, A. B., Louie, M., Woo, Y., Fischbein, M. P.
2018; 156 (1): 18–+
- **Enhanced Caspase Activity Contributes to Aortic Wall Remodeling and Early Aneurysm Development in a Murine Model of Marfan Syndrome** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
Emrich, F. C., Okamura, H., Dalal, A. R., Penov, K., Merk, D. R., Raaz, U., Hennigs, J. K., Chin, J. T., Miller, M. O., Pedroza, A. J., Craig, J. K., Koyano, T. K., Blankenberg, et al
2015; 35 (1): 146-154
- **Assessment of elastin deficit in a marfan mouse aneurysm model using an elastin-specific magnetic resonance imaging contrast agent.** *Circulation. Cardiovascular imaging*
Okamura, H., Pisani, L. J., Dalal, A. R., Emrich, F., Dake, B. A., Arakawa, M., Onthank, D. C., Cesati, R. R., Robinson, S. P., Milanese, M., Kotek, G., Smit, H., Connolly, et al
2014; 7 (4): 690-696
- **miR-29b Participates in Early Aneurysm Development in Marfan Syndrome** *CIRCULATION RESEARCH*
Merk, D. R., Chin, J. T., Dake, B. A., Maegdefessel, L., Miller, M. O., Kimura, N., Tsao, P. S., Iosef, C., Berry, G. J., Mohr, F. W., Spin, J. M., Alvira, C. M., Robbins, et al
2012; 110 (2): 312–?

- **Age and Procedural Timing for Asymptomatic Severe Aortic Stenosis: Analysis From the EARLY TAVR Trial.** *Circulation. Cardiovascular interventions*
Goel, K., Lindman, B. R., Schwartz, A., Cohen, D. J., Giustino, G., Oldemeyer, J. B., Strote, J., Babaliaros, V., Devireddy, C. M., Fischbein, M. P., Fearon, W. F., Daniels, D., Spies, et al
2026: e016370
- **Angina with non-obstructive coronary arteries and myocardial bridge: long-term outcomes of surgical unroofing.** *European heart journal*
Pargaonkar, V. S., Schnittger, I., Wong, C. C., Wang, H., Honda, Y., Fitzgerald, P., Fischbein, M. P., Mitchell, R. S., Boyd, J. H., Tremmel, J. A.
2026
- **Deep reinforcement learning for automatic anatomic CT landmark localization in Stanford Type B aortic dissection.** *Radiology advances*
Bäumler, K., Codari, M., Mastrodicasa, D., Mistelbauer, G., Willeminck, M. J., Walters, S., Hinostroza, V., Turner, V., Chepelev, L., Sriprachyakul, A., Madani, M. H., Ewane, A., Chen, et al
2026; 3 (2): umag006
- **Leveraging Single-Nucleus Chromatin Accessibility and Transcriptome Profiling to Define the Regulatory Landscape of Dilated Cardiomyopathy**
Dunkenberger, L., Gilles, C., Belbachir, N., Metzl Raz, E., Limbu, L., Bonham, S., Arthur, J., Dalal, A., Kay, M., Baum, R., Neofytou, E., Ramchandani, R., Ameen, et al
LIPPINCOTT WILLIAMS & WILKINS.2025
- **Mapping the Gene Network Dysregulation in Ascending Aortic Aneurysm Reveals Candidate Therapeutic Targets**
Kurtoglu, S., Venkatesh, M., Bolar, N., Cheng, P., Fischbein, M., Theodoris, C.
LIPPINCOTT WILLIAMS & WILKINS.2025
- **The epigenomic landscape of single vascular cells reflects developmental origin and identifies disease risk loci**
Weldy, C., Kundu, S., Monteiro, J., Gu, W., Pedroza, A., Dalal, A., Worssam, M., Li, D., Palmisano, B., Zhao, Q., Sharma, D., Nguyen, T., Kundu, et al
LIPPINCOTT WILLIAMS & WILKINS.2025
- **A cell and transcriptome atlas of human arterial vasculature.** *Cell genomics*
Zhao, Q., Pedroza, A., Sharma, D., Gu, W., Dalal, A., Weldy, C., Jackson, W., Li, D. Y., Ryan, Y., Nguyen, T., Shad, R., Palmisano, B. T., Monteiro, et al
2025: 101034
- **Epigenomic landscape of single vascular cells reflects developmental origin and disease risk loci.** *Molecular systems biology*
Weldy, C. S., Kundu, S., Monteiro, J., Gu, W., Pedroza, A. J., Dalal, A. R., Worssam, M. D., Li, D., Palmisano, B., Zhao, Q., Sharma, D., Nguyen, T., Kundu, et al
2025
- **Left Ventricular Health and TAVR Timing in Asymptomatic Severe Aortic Stenosis: Analysis From the EARLY TAVR Trial.** *Journal of the American College of Cardiology*
Lindman, B. R., Pibarot, P., Schwartz, A., Cohen, D. J., Giustino, G., Oldemeyer, J. B., Strote, J. A., Babaliaros, V., Devireddy, C. M., Fearon, W. F., Fischbein, M. P., Daniels, D., Spies, et al
2025
- **Immature Acta2R179C/+ smooth muscle cells cause moyamoya-like cerebrovascular lesions in mice prevented by boosting OXPPOS.** *Nature communications*
Kaw, A., Majumder, S., Esparza Pinelo, J. E., Wu, T., Starosolski, Z., Zhou, Z., Pedroza, A. J., Duan, X., Kaw, K., Gonzalez, A. D., Sarkar, R., Fischbein, M. P., Lorenzi, et al
2025; 16 (1): 6105
- **The Western Aortic Collaborative: Multi-institutional Aortic Surgery, Education, and Research.** *Aorta (Stamford, Conn.)*
McCarthy, F. H., Burke, C. R., Glotzbach, J. P., Fischbein, M. P., Caffarelli, A., Fleischman, F., Reece, T. B.
2025
- **The epigenomic landscape of single vascular cells reflects developmental origin and identifies disease risk loci.** *bioRxiv : the preprint server for biology*
Weldy, C. S., Kundu, S., Monteiro, J., Gu, W., Pedroza, A. J., Dalal, A. R., Worssam, M. D., Li, D., Palmisano, B., Zhao, Q., Sharma, D., Nguyen, T., Kundu, et al
2025

- **Type A intramural hematoma over 21 years: A single center's experience** *JTCVS OPEN*
Kim, J., Baiocchi, M., Leipzig, M., Duda, M., Aranda-Michel, E., Tognozzi, E., Higa, K., Zhu, Y., Macarthur, J., Woo, Y., Fischbein, M. P.
2025; 23: 1-18
- **Predicting Late Adverse Events in Uncomplicated Stanford Type B Aortic Dissection: Results From the ROADMAP Validation Study.** *Circulation. Cardiovascular imaging*
Fleischmann, D., Mastrodicasa, D., Willemink, M. J., Turner, V. L., Hinostroza, V., Burriss, N. S., Yang, B., Hanneman, K., Ouzounian, M., Ocazionez Trujillo, D., Afifi, R. O., Estrera, A. L., Lacomis, et al
2025; 18 (2): e016766
- **Intrinsic GATA4 expression sensitizes the aortic root to dilation in a Loeys-Dietz syndrome mouse model.** *Nature cardiovascular research*
Bramel, E. E., Espinoza Camejo, W. A., Creamer, T. J., Restrepo, L., Saqib, M., Bagirzadeh, R., Zeng, A., Mitchell, J. T., Stein-O'Brien, G. L., Pedroza, A. J., Fischbein, M. P., Dietz, H. C., Gallo MacFarlane, et al
2024
- **Transcatheter Aortic-Valve Replacement for Asymptomatic Severe Aortic Stenosis.** *The New England journal of medicine*
Généreux, P., Schwartz, A., Oldemeyer, J. B., Pibarot, P., Cohen, D. J., Blanke, P., Lindman, B. R., Babaliaros, V., Fearon, W. F., Daniels, D. V., Chhatriwalla, A. K., Kavinsky, C., Gada, et al
2024
- **Intrinsic Gata4 expression sensitizes the aortic root to dilation in a Loeys-Dietz syndrome mouse model.** *Research square*
Bramel, E. E., Camejo, W. A., Creamer, T. J., Restrepo, L., Saqib, M., Bagirzadeh, R., Zeng, A., Mitchell, J. T., Stein-O'Brien, G. L., Pedroza, A. J., Fischbein, M. P., Dietz, H. C., MacFarlane, et al
2024
- **Initial Outcomes of the Gore TAG Thoracic Branch Endoprosthesis for Endovascular Repair of Blunt Thoracic Aortic Injury.** *Annals of vascular surgery*
Chou, E. L., Lu, E., Dake, M. D., Fischbein, M. P., Bavaria, J. E., Oderich, G., Makaroun, M. S., Charlton-Ouw, K. M., Naslund, T., Suckow, B. D., Matsumura, J. S., Patel, H. J., Azizzadeh, et al
2024
- **Comprehensive Integration of Multiple Single-Cell Transcriptomic Datasets Defines Distinct Cell Populations and Their Phenotypic Changes in Murine Atherosclerosis.** *Arteriosclerosis, thrombosis, and vascular biology*
Sharma, D., DeForest Worssam, M., Pedroza, A. J., Dalal, A. R., Alemany, H., Kim, H. J., Kundu, R., Fischbein, M., Cheng, P., Wirka, R., Quertermous, T.
2023
- **Introduction to the 2023 Cardiovascular Surgery Issue.** *Circulation*
Ruel, M., Fischbein, M. P., de Lemos, J. A.
2023; 148 (17): 1287-1288
- **Augmenting Mitochondrial Respiration in Immature Smooth Muscle Cells with anACTA2Pathogenic Variant Mitigates Moyamoya-like Cerebrovascular Disease.** *Research square*
Kaw, A., Wu, T., Starosolski, Z., Zhou, Z., Pedroza, A. J., Majumder, S., Duan, X., Kaw, K., Pinelo, J. E., Fischbein, M. P., Lorenzi, P. L., Tan, L., Martinez, et al
2023
- **Nuclear smooth muscle α -actin participates in vascular smooth muscle cell differentiation** *NATURE CARDIOVASCULAR RESEARCH*
Kwartler, C. S., Pedroza, A. J., Kaw, A., Guan, P., Ma, S., Duan, X., Kernell, C., Wang, C., Pinelo, J., Bowen, M., Chen, J., Zhong, Y., Sinha, et al
2023; 2 (10): 937-+
- **Nuclear Smooth Muscle α -actin Participates in Vascular Smooth Muscle Cell Differentiation.** *Nature cardiovascular research*
Kwartler, C. S., Pedroza, A. J., Kaw, A., Guan, P., Ma, S., Duan, X. Y., Kernell, C., Wang, C., Pinelo, J. E., Bowen, M. S., Chen, J., Zhong, Y., Sinha, et al
2023; 2 (10): 937-955
- **Blood transfusion in cardiac surgeries - Toward a personalized protocol.** *American journal of surgery*
Min, Y., Dalal, A. R., Pedroza, A. J., Pham, T. D., Panigrahi, A. K., Goldstone, A. B., MacArthur, J. W., Woo, Y. J., Baiocchi, M., Fischbein, M. P.
2023
- **Reduced Pulmonary Artery Distensibility Predicts Persistent Pulmonary Hypertension and 2-Year Mortality in Patients with Severe Aortic Stenosis Undergoing TAVR.** *Academic radiology*

- Turner, V., Maret, E., Kim, J. B., Codari, M., Hinostroza, V., Mastrodicasa, D., Watkins, A. C., Fearon, W. F., Fischbein, M. P., Haddad, F., Willemink, M. J., Fleischmann, D.
2023
- **Outcomes after concomitant arch replacement at the time of aortic root surgery.** *JTCVS open*
Krishnan, A., Dalal, A. R., Pedroza, A. J., Nakamura, K., Yokoyama, N., Tognozzi, E., Woo, Y. J., Fischbein, M., MacArthur, J. W.
2023; 13: 1-8
 - **Blood transfusion in aortic root surgery impairs midterm survival.** *JTCVS open*
Dalal, A. R., Pedroza, A. J., Krishnan, A., Min, Y., Tognozzi, E., Yokoyama, N., Nakamura, K., Mitchel, O. R., Baiocchi, M., Woo, Y. J., MacArthur, J. W., Fischbein, M. P.
2023; 13: 9-19
 - **Nuclear Smooth Muscle α -actin in Vascular Smooth Muscle Cell Differentiation.** *Research square*
Kwartler, C. S., Pedroza, A. J., Kaw, A., Guan, P., Ma, S., Duan, X. Y., Kernell, C., Wang, C., Pinelo, J. E., Borthwick, M. S., Chen, J., Zhong, Y., Sinha, et al
2023
 - **Midterm Outcomes in Type A Aortic Dissection Repair with and without Malperfusion in a Hybrid Operating Room.** *Seminars in thoracic and cardiovascular surgery*
Dalal, A. R., Dossabhoy, S., Heng, E., Yasin, A., Leipzig, M. M., Bonham, S. A., Fischbein, M. P., Lee, J. T., Woo, Y. J., Watkins, A. C.
2022
 - **Registry of Aortic Diseases to Model Adverse Events and Progression (ROADMAP) in Uncomplicated Type B Aortic Dissection: Study Design and Rationale.** *Radiology. Cardiothoracic imaging*
Mastrodicasa, D., Willemink, M. J., Turner, V. L., Hinostroza, V., Codari, M., Hanneman, K., Ouzounian, M., Ocazionez Trujillo, D., Affi, R. O., Hedgire, S., Burris, N. S., Yang, B., Lacomis, et al
2022; 4 (6): e220039
 - **Angiogenic stem cell delivery platform to augment post-infarction neovasculature and reverse ventricular remodeling.** *Scientific reports*
Shin, H. S., Thakore, A., Tada, Y., Pedroza, A. J., Ikeda, G., Chen, I. Y., Chan, D., Jaatinen, K. J., Yajima, S., Pfrender, E. M., Kawamura, M., Yang, P. C., Wu, et al
2022; 12 (1): 17605
 - **Total aortic arch replacement using a frozen elephant trunk device: Results of a 1-year US multicenter trial.** *The Journal of thoracic and cardiovascular surgery*
Coselli, J. S., Roselli, E. E., Preventza, O., Malaisrie, S. C., Stewart, A., Stelzer, P., Takayama, H., Chen, E. P., Estrera, A. L., Gleason, T. G., Fischbein, M. P., Girardi, L. N., Patel, et al
2022
 - **Inter-observer variability of expert-derived morphologic risk predictors in aortic dissection.** *European radiology*
Willemink, M. J., Mastrodicasa, D., Madani, M. H., Codari, M., Chepelev, L. L., Mistelbauer, G., Hanneman, K., Ouzounian, M., Ocazionez, D., Affi, R. O., Lacomis, J. M., Lovato, L., Pacini, et al
2022
 - **Mid-Term Outcomes of Endovascular Repair of Aortic Arch Aneurysms with the Gore Thoracic Branch Endoprosthesis.** *European journal of vascular and endovascular surgery : the official journal of the European Society for Vascular Surgery*
Liang, N. L., Dake, M. D., Fischbein, M. P., Bavaria, J. E., Desai, N. D., Oderich, G. S., Singh, M. J., Fillinger, M., Suckow, B. D., Matsumura, J. S., Patel, H. J., Makaroun, M. S.
2022
 - **Mosaicism for the smooth muscle cell (SMC)-specific knock-in of the Acta2 R179C pathogenic variant: Implications for gene editing therapies.** *Journal of molecular and cellular cardiology*
Kaw, A., Pedroza, A. J., Chattopadhyay, A., Pinard, A., Guo, D., Kaw, K., Zhou, Z., Shad, R., Fischbein, M. P., Kwartler, C. S., Milewicz, D. M.
2022; 171: 102-104
 - **Tetralogy of Fallot and Aortic Dissection: Implications in Management.** *JACC. Case reports*
Vaikunth, S. S., Chan, J. L., Woo, J. P., Bykhovsky, M. R., Lui, G. K., Ma, M., Romfh, A. W., Lamberti, J., Mastrodicasa, D., Fleischmann, D., Fischbein, M. P.
2022; 4 (10): 581-586

- **Smad3 regulates smooth muscle cell fate and mediates adverse remodeling and calcification of the atherosclerotic plaque.** *Nature cardiovascular research*
Cheng, P., Wirka, R. C., Kim, J. B., Kim, H. J., Nguyen, T., Kundu, R., Zhao, Q., Sharma, D., Pedroza, A., Nagao, M., Iyer, D., Fischbein, M. P., Quertermous, et al
2022; 1 (4): 322-333
- **Imaging and Surveillance of Chronic Aortic Dissection: A Scientific Statement From the American Heart Association.** *Circulation. Cardiovascular imaging*
Fleischmann, D., Afifi, R. O., Casanegra, A. I., Elefteriades, J. A., Gleason, T. G., Hanneman, K., Roselli, E. E., Willemink, M. J., Fischbein, M. P.
2022; 15 (3): e000075
- **Acute Induced Pressure Overload Rapidly Incites Thoracic Aortic Aneurysmal Smooth Muscle Cell Phenotype.** *Hypertension (Dallas, Tex. : 1979)*
Pedroza, A. J., Shad, R., Dalal, A. R., Yokoyama, N., Nakamura, K., Hiesinger, W., Fischbein, M. P.
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