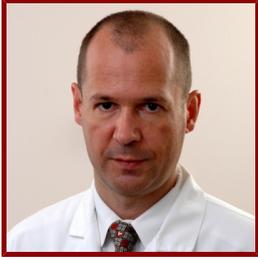


Stanford



Dominik Fleischmann

Professor of Radiology (Cardiovascular Imaging)

 NIH Biosketch available Online

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

CLINICAL FOCUS

- Cardiovascular Imaging
- Diagnostic Radiology
- Radiology

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Radiology
- Member, Bio-X
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Director, Computed Tomography, Stanford Hospital and Clinics, (2008- present)
- Chief, Cardiovascular Imaging, Department of Radiology, (2011- present)
- Medical Director, 3DQ Lab, Department of Radiology, (2012- present)

HONORS AND AWARDS

- Deputy Editor, Radiology Cardiothoracic Imaging (2019 -)
- Fellow, American Heart Association

PROFESSIONAL EDUCATION

- Research Fellowship, Stanford University School of Medicine , Cardiovascular Imaging (1999)
- Board Certification: Diagnostic Radiology, Austria Medical Chamber (1997)
- Residency: University of Vienna (1997) Austria
- Internship: AO Krankenhaus Allentsteig (1991) Austria
- MD, University of Vienna, Austria , Medicine (1989)

- Medical Education: University of Vienna Medical School (1989) Austria

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Non-invasive Cardiovascular Imaging

Image Post-processing

Contrast Medium Dynamics

CLINICAL TRIALS

- Limiting AAA With Metformin (LIMIT) Trial, Recruiting
- 2019-06 TRISCEND Study, Not Recruiting
- Diagnostic Performance of Coronary CT Angiography With CT FFR in Kidney Transplantation Candidates, Not Recruiting
- IMPROving Outcomes in Vascular DisEase- Aortic Dissection, Not Recruiting
- Perfusion CT as a Predictor of Treatment Response in Patients With Hepatic Malignancies, Not Recruiting
- Perfusion CT as a Predictor of Treatment Response in Patients With Rectal Cancer, Not Recruiting
- Perfusion CT Monitoring to Predict Treatment Efficacy in Renal Cell Carcinoma, Not Recruiting
- Prognostic Value of Baseline Computed Tomography (CT) Perfusion Parameters of Pancreatic Cancer for Patients Undergoing Stereotactic Body Radiotherapy or Surgical Resection, Not Recruiting

Teaching

COURSES

2021-22

- Introduction to Cardiac Image Processing Techniques: RAD 202 (Spr)

2020-21

- Introduction to Cardiac Image Processing Techniques: RAD 202 (Spr)

Publications

PUBLICATIONS

- **Denoising Multiphase Functional Cardiac CT Angiography Using Deep Learning and Synthetic Data.** *Radiology. Artificial intelligence*
Sandfort, V., Willemink, M., Codari, M., Mastrodicasa, D., Fleischmann, D.
2024; e230153
- **Hemodynamic effects of entry and exit tear size in aortic dissection evaluated with in vitro magnetic resonance imaging and fluid-structure interaction simulation.** *Scientific reports*
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- **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., Ocazonez Trujillo, D., Afifi, R. O., Hedgire, S., Burris, N. S., Yang, B., Lacomis, et al
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- **Imaging and Surveillance of Chronic Aortic Dissection: A Scientific Statement From the American Heart Association.** *Circulation. Cardiovascular imaging*
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- **Fluid-structure interaction simulations of patient-specific aortic dissection.** *Biomechanics and modeling in mechanobiology*
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2020
- **Aortic growth and development of partial false lumen thrombosis are associated with late adverse events in type B aortic dissection.** *The Journal of thoracic and cardiovascular surgery*
Higashigaito, K. n., Sailer, A. M., van Kuijk, S. M., Willeminck, M. J., Hahn, L. D., Hastie, T. J., Miller, D. C., Fischbein, M. P., Fleischmann, D. n.
2019
- **Acute Limited Intimal Tears of the Thoracic Aorta.** *Journal of the American College of Cardiology*
Chin, A. S., Willeminck, M. J., Kino, A. n., Hinostrroza, V. n., Sailer, A. M., Fischbein, M. P., Mitchell, R. S., Berry, G. J., Miller, D. C., Fleischmann, D. n.
2018; 71 (24): 2773–85
- **Computed Tomography Imaging Features in Acute Uncomplicated Stanford Type-B Aortic Dissection Predict Late Adverse Events** *CIRCULATION-CARDIOVASCULAR IMAGING*
Sailer, A. M., Van Kuijk, S. M., Nelemans, P. J., Chin, A. S., Kino, A., Huininga, M., Schmidt, J., Mistelbauer, G., Baeumler, K., Chiu, P., Fischbein, M. P., Dake, M. D., Miller, et al
2017; 10 (4)
- **Prognostic significance of early aortic remodeling in acute uncomplicated type B aortic dissection and intramural hematoma.** *The Journal of thoracic and cardiovascular surgery*
Sailer, A. M., Nelemans, P. J., Hastie, T. J., Chin, A. S., Huininga, M. n., Chiu, P. n., Fischbein, M. P., Dake, M. D., Miller, D. C., Schurink, G. W., Fleischmann, D. n.
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- **Evaluation of Two Iterative Techniques for Reducing Metal Artifacts in Computed Tomography** *RADIOLOGY*
Boas, F. E., Fleischmann, D.
2011; 259 (3): 894-902
- **Computed tomography-old ideas and new technology** *EUROPEAN RADIOLOGY*
Fleischmann, D., Boas, F. E.
2011; 21 (3): 510-517
- **Dual-energy CT Discrimination of Iodine and Calcium: Experimental Results and Implications for Lower Extremity CT Angiography** *ACADEMIC RADIOLOGY*
Tran, D. N., Straka, M., Roos, J. E., Napel, S., Fleischmann, D.
2009; 16 (2): 160-171
- **An improved algorithm for femoropopliteal artery centerline restoration using prior knowledge of shapes and image space data** *MEDICAL PHYSICS*
Rakshe, T., Fleischmann, D., Rosenberg, J., Roos, J. E., Straka, M., Napel, S.
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- **Femoropopliteal artery centerline interpolation using contralateral shape** *MEDICAL PHYSICS*
Tran, D. N., Fleischmann, D., Rakshe, T., Roos, J. E., Rosenberg, J., Straka, M., Napel, S.
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- **Multipath curved planar reformation of the peripheral arterial tree in CT angiography** *RADIOLOGY*
Roos, J. E., Fleischmann, D., Koechl, A., Rakshe, T., Straka, M., Napoli, A., Kanitsar, A., Sramek, M., Groeller, E.
2007; 244 (1): 281-290
- **Knowledge-based interpolation of curves: Application to femoropopliteal arterial centerline restoration** *MEDICAL IMAGE ANALYSIS*
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- **Quantification of intravenously administered contrast medium transit through the peripheral arteries: Implications for CT angiography** *RADIOLOGY*
Fleischmann, D., Rubin, G. D.
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- **Non-Linear Model Fitting to Parameterize Diseased Blood Vessels** *IEEE Visualization 2004*
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- **VesselGlyph: Focus & Context Visualization in CT-Angiography** *IEEE Visualization 2004*
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- **CPR - Curved Planar Reformation** *IEEE Visualization 2002*
Kanitsar A, Fleischmann D, Wegenkittl R, Felkel P, Gröller E
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- **Accuracy of predicting and controlling time-dependent aortic enhancement from a test bolus injection** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
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- **Pulmonary interstitial lymphography: A prospective trial with potential impact on stereotactic ablative radiotherapy planning for early-stage lung cancer.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
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- **Transfemoral tricuspid valve replacement and one-year outcomes: the TRISCEND study.** *European heart journal*
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- **Longitudinal investigation of aortic dissection in mice with computational fluid dynamics.** *Computer methods in biomechanics and biomedical engineering*
Bäumler, K., Phillips, E. H., Grande Gutiérrez, N., Fleischmann, D., Marsden, A. L., Goergen, C. J.
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- **Automated cross-sectional view selection in CT angiography of aortic dissections with uncertainty awareness and retrospective clinical annotations.** *Computers in biology and medicine*
Pepe, A., Egger, J., Codari, M., Willemink, M. J., Gsaxner, C., Li, J., Roth, P. M., Schmalstieg, D., Mistelbauer, G., Fleischmann, D.

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- **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
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- **Vendor Independent Coronary Calcium Scoring Improves Individual Risk Assessment: The Multi-Ethnic Study of Atherosclerosis (MESA).** *JACC. Cardiovascular imaging*
van der Werf, N. R., Dobrolinska, M. M., Greuter, M. J., Willemink, M. J., Fleischmann, D., Bos, D., Slart, R. H., Budoff, M., Leiner, T.
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- **Radiology: Cardiothoracic Imaging Highlights 2022.** *Radiology. Cardiothoracic imaging*
Mastrodicasa, D., Aquino, G. J., Ordovas, K. G., Vargas, D., Fleischmann, D., Abbara, S., Hanneman, K.
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- **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., Hinostrza, V., Mastrodicasa, D., Watkins, A. C., Fearon, W. F., Fischbein, M. P., Haddad, F., Willemink, M. J., Fleischmann, D.
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- **Low Utility of Frequent Imaging Follow-up for Incidental Ascending Aortic Aneurysms.** *Radiology. Cardiothoracic imaging*
Shen, J., Fleischmann, D.
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- **Hemodynamic Effects of Entry and Exit Tear Size in Aortic Dissection Evaluated with In Vitro Magnetic Resonance Imaging and Fluid-Structure Interaction Simulation.** *ArXiv*
Zimmermann, J., Bäuml, K., Loecher, M., Cork, T. E., Marsden, A. L., Ennis, D. B., Fleischmann, D.
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Koetzier, L. R., Mastrodicasa, D., Szczykutowicz, T. P., van der Werf, N. R., Wang, A. S., Sandfort, V., van der Molen, A. J., Fleischmann, D., Willemink, M. J.
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- **Hemodynamic Effects of Entry Versus Exit Tear Size and Tissue Stiffness in Simulations of Aortic Dissection**
Bauml, K., Zimmermann, J., Ennis, D. B., Marsden, A. L., Fleischmann, D., Tavares, J. M., Bourauel, C., Geris, L., Slote, J. V.
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- **Limited Aortic Intimal Tears: CT Imaging Features and Clinical Characteristics.** *Radiology. Cardiothoracic imaging*
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2022; 4 (6): e220155
- **Artificial Intelligence Applications in Aortic Dissection Imaging.** *Seminars in roentgenology*
Mastrodicasa, D., Codari, M., Bäuml, K., Sandfort, V., Shen, J., Mistelbauer, G., Hahn, L. D., Turner, V. L., Desjardins, B., Willemink, M. J., Fleischmann, D.
2022; 57 (4): 357-363
- **Thoracic Endovascular Aortic Repair for Chronic Type B Aortic Dissection: Pre- and Postprocedural Imaging.** *Radiographics : a review publication of the Radiological Society of North America, Inc*
Shen, J., Mastrodicasa, D., Al Bulushi, Y., Lin, M. C., Tse, J. R., Watkins, A. C., Lee, J. T., Fleischmann, D.
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- **Imaging Challenges in Chronic Dissection.** *Seminars in roentgenology*
Shen, J., Mastrodicasa, D., Tse, J. R., Fleischmann, D.
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- **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., Afifi, R. O., Lacomis, J. M., Lovato, L., Pacini, et al
2022

- **Association of left ventricular diastolic function with coronary artery calcium score: A Project Baseline Health Study.** *Journal of cardiovascular computed tomography*
Haddad, F., Cauwenberghs, N., Daubert, M. A., Kobayashi, Y., Bloomfield, G. S., Fleischman, D., Koweek, L., Maron, D. J., Rodriguez, F., Liao, Y. J., Moneghetti, K., Amsallem, M., Mega, et al
2022
- **Blood Flow Patterns of Risk in Aortic Dissection: Time to Go With the Flow?** *Journal of the American College of Cardiology*
Burris, N. S., Fleischmann, D., Hope, M. D.
2022; 79 (24): 2428-2430
- **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.
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- **Low-dose coronary calcium scoring CT using a dedicated reconstruction filter for kV-independent calcium measurements.** *European radiology*
Jubran, A., Mastrodicasa, D., van Praagh, G. D., Willemink, M. J., Kino, A., Wang, J., Fleischmann, D., Nieman, K.
1800
- **Biological and clinical correlates of the patient health questionnaire-9: exploratory cross-sectional analyses of the baseline health study.** *BMJ open*
Califf, R. M., Wong, C., Doraiswamy, P. M., Hong, D. S., Miller, D. P., Mega, J. L.
2022; 12 (1): e054741
- **CT Angiography of Venoarterial Extracorporeal Membrane Oxygenation.** *Radiographics : a review publication of the Radiological Society of North America, Inc*
Shen, J., Tse, J. R., Chan, F., Fleischmann, D.
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- **Entry Tear Dominance at CT Angiography Predicts Long-term Clinical Outcomes in Aortic Dissection: Another Piece of the Puzzle.** *Radiology. Cardiothoracic imaging*
Fleischmann, D., Burris, N.
1800; 3 (6): e210271
- **Coronary Artery Calcium Scoring: Toward a New Standard.** *Investigative radiology*
van Praagh, G. D., Wang, J., van der Werf, N. R., Greuter, M. J., Mastrodicasa, D., Nieman, K., van Hamersvelt, R. W., Oostveen, L. J., Lange, F. d., Slart, R. H., Leiner, T., Fleischmann, D., Willemink, et al
2021
- **Machine Learning to Predict In-Hospital Mortality in COVID-19 Patients Using Computed Tomography-Derived Pulmonary and Vascular Features.** *Journal of personalized medicine*
Schiaffino, S., Codari, M., Cozzi, A., Albano, D., Ali, M., Arioli, R., Avola, E., Bna, C., Cariati, M., Carriero, S., Cressoni, M., Danna, P. S., Della Pepa, et al
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- **Implicit Modeling of Patient-Specific Aortic Dissections with Elliptic Fourier Descriptors** *COMPUTER GRAPHICS FORUM*
Mistelbauer, G., Rossl, C., Baeumler, K., Preim, B., Fleischmann, D.
2021; 40 (3): 423-434
- **An international survey on AI in radiology in 1041 radiologists and radiology residents part 2: expectations, hurdles to implementation, and education.** *European radiology*
Huisman, M., Ranschaert, E., Parker, W., Mastrodicasa, D., Koci, M., Pinto de Santos, D., Coppola, F., Morozov, S., Zins, M., Bohyn, C., Koc, U., Wu, J., Veean, et al
2021
- **Fully Automated Quantification Method (FQM) of Coronary Calcium in an Anthropomorphic Phantom.** *Medical physics*
van Praagh, G. D., van der Werf, N. R., Wang, J., van Ommen, F., Poelhekken, K., Slart, R. H., Fleischmann, D., Greuter, M. J., Leiner, T., Willemink, M. J.
2021
- **Emerging methods for the characterization of ischemic heart disease: ultrafast Doppler angiography, micro-CT, photon-counting CT, novel MRI and PET techniques, and artificial intelligence.** *European radiology experimental*
Willemink, M. J., Varga-Szemes, A., Schoepf, U. J., Codari, M., Nieman, K., Fleischmann, D., Mastrodicasa, D.
2021; 5 (1): 12

- **CTA pulmonary artery enlargement in patients with severe aortic stenosis: Prognostic impact after TAVR.** *Journal of cardiovascular computed tomography*
Turner, V. L., Jubran, A., Kim, J. B., Maret, E., Moneghetti, K. J., Haddad, F., Amsallem, M., Codari, M., Hinostroza, V., Mastrodicasa, D., Sailer, A. M., Kobayashi, Y., Nishi, et al
2021
- **An international survey on AI in radiology in 1,041 radiologists and radiology residents part 1: fear of replacement, knowledge, and attitude.** *European radiology*
Huisman, M., Ranschaert, E., Parker, W., Mastrodicasa, D., Koci, M., Pinto de Santos, D., Coppola, F., Morozov, S., Zins, M., Bohyn, C., Koc, U., Wu, J., Veean, et al
2021
- **Semi-automatic vessel detection for challenging cases of peripheral arterial disease.** *Computers in biology and medicine*
Mistelbauer, G., Morar, A., Scherthaner, R., Strassl, A., Fleischmann, D., Moldoveanu, F., Groller, M. E.
2021; 133: 104344
- **Aortic Dissection and Other Acute Aortic Syndromes: Diagnostic Imaging Findings from Acute to Chronic Longitudinal Progression.** *Radiographics : a review publication of the Radiological Society of North America, Inc*
Murillo, H., Molvin, L., Chin, A. S., Fleischmann, D.
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- **Aorto-iliac/right leg arterial thrombosis necessitating limb amputation, pulmonary arterial, intracardiac, and ilio-caval venous thrombosis in a 40-year-old with COVID-19.** *Clinical imaging*
Madani, M. H., Leung, A. N., Becker, H. C., Chan, F. P., Fleischmann, D. n.
2021; 75: 1–4
- **Deep Learning-Based 3D Segmentation of True Lumen, False Lumen, and False Lumen Thrombosis in Type-B Aortic Dissection.** *Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual International Conference*
Wobben, L. D., Codari, M., Mistelbauer, G., Pepe, A., Higashigaito, K., Hahn, L. D., Mastrodicasa, D., Turner, V. L., Hinostroza, V., Baumler, K., Fischbein, M. P., Fleischmann, D., Willemink, et al
2021; 2021: 3912-3915
- **A discrete approach for modeling degraded elastic fibers in aortic dissection** *COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING*
Rolf-Pissarczyk, M., Li, K., Fleischmann, D., Holzapfel, G. A.
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- **Extravasation Volume at Computed Tomography Angiography Correlates With Bleeding Rate and Prognosis in Patients With Overt Gastrointestinal Bleeding.** *Investigative radiology*
Tse, J. R., Shen, J. n., Shah, R. n., Fleischmann, D. n., Kamaya, A. n.
2021
- **Spectral photon-counting CT in cardiovascular imaging.** *Journal of cardiovascular computed tomography*
Sandfort, V., Persson, M., Pourmorteza, A., Noel, P. B., Fleischmann, D., Willemink, M. J.
2020
- **Repair of extra-anatomic bypass graft structural degeneration and pseudoaneurysm with endovascular stent-graft relining.** *JTCVS techniques*
Stephens, E. H., Fleischmann, D., Starr, A., Miller, D. C.
2020; 3: 259-262
- **Repair of extra-anatomic bypass graft structural degeneration and pseudoaneurysm with endovascular stent-graft relining** *JTCVS TECHNIQUES*
Stephens, E. H., Fleischmann, D., Starr, A., Miller, D.
2020; 3: 259-262
- **Delivery of hepatocyte growth factor mRNA from nanofibrillar scaffolds in a pig model of peripheral arterial disease.** *Regenerative medicine*
S Zaitseva, T., Yang, G., Dionyssiou, D., Zamani, M., Sawamura, S., Yakubov, E., Ferguson, J., Hallett, R. L., Fleischmann, D., Paukshto, M. V., Huang, N. F.
2020
- **Carotid plaque imaging and the risk of atherosclerotic cardiovascular disease.** *Cardiovascular diagnosis and therapy*
Zhu, G., Hom, J., Li, Y., Jiang, B., Rodriguez, F., Fleischmann, D., Saloner, D., Porcu, M., Zhang, Y., Saba, L., Wintermark, M.
2020; 10 (4): 1048-1067
- **Dramatic Case of Paradoxical Embolism.** *Radiology. Cardiothoracic imaging*

- Pogatchnik, B. P., Fleischmann, D.
2020; 2 (4): e200360
- **The Project Baseline Health Study: a step towards a broader mission to map human health** *NPJ DIGITAL MEDICINE*
Arges, K., Assimes, T., Bajaj, V., Balu, S., Bashir, M. R., Beskow, L., Blanco, R., Califf, R., Campbell, P., Carin, L., Christian, V., Cousins, S., Das, et al
2020; 3 (1): 84
 - **The Project Baseline Health Study: a step towards a broader mission to map human health.** *NPJ digital medicine*
Arges, K., Assimes, T., Bajaj, V., Balu, S., Bashir, M. R., Beskow, L., Blanco, R., Califf, R., Campbell, P., Carin, L., Christian, V., Cousins, S., Das, et al
2020; 3 (1): 84
 - **Impact of right ventricular volumes on the outcomes of TAVR: a volumetric analysis of preprocedural computed tomography** *EUROINTERVENTION*
Rozenbaum, Z., Maret, E., Lax, L., Shmilovich, H., Finkelstein, A., Steinvil, A., Halkin, A., Banai, S., Cohen, D., Topilsky, Y., Berliner, S., Fleischmann, D., Aviram, et al
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 - **CT-based True- and False-Lumen Segmentation in Type B Aortic Dissection Using Machine Learning.** *Radiology. Cardiothoracic imaging*
Hahn, L. D., Mistelbauer, G., Higashigaito, K., Koci, M., Willeminck, M. J., Sailer, A. M., Fischbein, M., Fleischmann, D.
2020; 2 (3): e190179
 - **Deep Flow-Net for EPI Distortion Estimation.** *NeuroImage*
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