


Christopher K. Zarins

Walter Clifford Chidester and Elsa Rooney Chidester Professor of Surgery, Emeritus

 NIH Biosketch available Online

 Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Surgery
- Member, Bio-X
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Chief of Vascular Surgery, The University of Chicago Medical Center, (1976-1993)
- Vice Chairman, Department of Surgery, The University of Chicago, (1985-1989)
- Chief of Vascular Surgery, Stanford University Medical Center, Stanford, CA, (1993-2005)
- Acting Chairman, Department of Surgery, Stanford University, (1995-1997)

HONORS AND AWARDS

- Honorary doctorate degree, Riga Stradins University, Latvia (2010)
- Grand Medal, Latvian Academy of Sciences (2009)
- Three Star Order, Republic of Latvia, Republic of Latvia (2003)
- Latvian Academy of Sciences Pauls Stradins Prize in Medicine, Republic of Latvia (1998)
- Resident Research Award, Association for Academic Surgery (1972)
- Phi Beta Kappa, Lehigh University (1964)

PROFESSIONAL EDUCATION

- BA, Lehigh University, Bethlehem, PA , Biology (1964)
- MD, Johns Hopkins Univ School of Med , Medicine (1968)
- intern, University of Michigan , Surgery (1969)
- residency, University of Michigan , General Surgery (1974)
- fellow, Johns Hopkins Hospital , Surgical Research (1972)
- chief resident, University of Michigan , resident (1974)

COMMUNITY AND INTERNATIONAL WORK

- Latvian Medical Foundation, Latvia

LINKS

- The Zarins Lab: <http://zarinslab.stanford.edu/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Hemodynamic factors in atherosclerosis, pathogenesis of, aortic aneurysms, carotid plaque localization and complication, anastomotic intimal hyperplasia, vascular biology of artery wall, computational fluid dynamics as applied to blood flow and vascular disease.

A full list of publication with pdf at: (copy/paste the following URL to browser)

http://medstaging.stanford.edu/zarinslab/publications/zarins_bib/zarins_bibliography.html

Publications

PUBLICATIONS

- **Gastruloids enable modeling of the earliest stages of human cardiac and hepatic vascularization.** *Science (New York, N.Y.)*
Abilez, O. J., Yang, H., Guan, Y., Shen, M., Yildirim, Z., Zhuge, Y., Venkateshappa, R., Zhao, S. R., Gomez, A. H., El-Mokahal, M., Dunkenberger, L., Ono, Y., Shibata, et al
2025; 388 (6751): eadu9375
- **Ischemia targeted coronary revascularization improves five-year survival following carotid endarterectomy.** *Journal of vascular surgery*
Krievins, D., Jegere, S., Latkovskis, G., Lacis, A., Zellans, E., Kumsars, I., Putrins, D., Vetra, J., Supols, E., Zvaigzne, L., Kirsners, A., Erglis, A., Ivanova, et al
2025
- **Carotid Artery Atherosclerosis Is a Marker for Risk of Stroke and Cardiac Death.** *JACC. Cardiovascular imaging*
Zarins, C. K.
2025; 18 (1): 90-92
- **Addressing the Need to Improve Long Term Survival Following Lower Extremity Revascularisation in a Randomised Controlled Trial.** *European journal of vascular and endovascular surgery : the official journal of the European Society for Vascular Surgery*
Krievins, D., Erglis, A., Zarins, C. K.
2024; 68 (4): 541-542
- **Diagnosis and treatment of ischemia-producing coronary stenoses improves 5-year survival of patients undergoing major vascular surgery.** *Journal of vascular surgery*
Krievins, D. K., Zellans, E., Latkovskis, G., Kumsars, I., Krievina, A. K., Jegere, S., Erglis, A., Lacis, A., Plopa, E., Stradins, P., Ivanova, P., Zarins, C. K.
2024; 80 (1): 240-248
- **Endovascular Transvenous versus Open Femoropopliteal Bypass.** *Medicina (Kaunas, Lithuania)*
Rumba, R., Krievins, D., Ezite, N., Lacis, A., Mouttet, L., Vavere, A. L., Zarins, C. K.
2024; 60 (5)
- **Ischemia-Guided Coronary Revascularization Following Lower-Extremity Revascularization Improves 5-Year Survival of Patients With Chronic Limb-Threatening Ischemia.** *Journal of endovascular therapy : an official journal of the International Society of Endovascular Specialists*
Latkovskis, G., Krievins, D., Zellans, E., Kumsars, I., Krievina, A., Angena, A., Jegere, S., Erglis, A., Lacis, A., Zarins, C.
2024: 15266028241245909
- **Pressure drop-derived index associated with plaque vulnerability of coronary atherosclerosis**
Chung, J., Yang, S., Lesina, K., Doh, J. H., Erglis, A., Leipsic, J. A., Chun, E. J., Choi, G., Schaap, M., Zarins, C., Taylor, C. A., Fearon, W. F., Narula, et al
OXFORD UNIV PRESS.2023

- **Optimal management of carotid artery disease in patients undergoing coronary artery bypass.** *Journal of vascular surgery*
Zarins, C. K.
2023; 78 (4): 1095
- **Adding value to routine postoperative troponin testing of vascular surgery patients.** *Journal of vascular surgery*
Zarins, C. K.
2023; 77 (4): 1224-1225
- **Long-term prognostic implications of hemodynamic and plaque assessment using coronary CT angiography.** *Atherosclerosis*
Yang, S., Lesina, K., Doh, J., Jegere, S., Erglis, A., Leipsic, J. A., Chun, E. J., Choi, G., Schaap, M., Zarins, C., Taylor, C. A., Fearon, W. F., Narula, et al
2023
- **Three-Year Patency Results following Endovascular Transvenous Femoropopliteal Bypass.** *Medicina (Kaunas, Lithuania)*
Rumba, R., Krievins, D., Savlovskis, J., Ezite, N., Lacis, A., Petrosina, E., Mouttet, L., Gardovskis, J., Zarins, C. K.
2023; 59 (3)
- **Three-year patency results following endovascular transvenous femoropopliteal bypass** *Medicina*
Rumba, R., Krievins, D., Savlovskis, J., Ezite, N., Lacis, A., Petrosina, E., Mouttet, L., Gardovskis, J., Zarins, C. K.
2023; 59: 462
- **Long term clinical and functional venous outcomes after endovascular transvenous femoro-popliteal bypass.** *International angiology : a journal of the International Union of Angiology*
Rumba, R., Krievins, D., Savlovskis, J., Ezite, N., Kukulis, I., Petrosina, E., Mouttet, L., Lacis, A., Zarins, C. K.
2022
- **Coronary revascularization of patients with silent coronary ischemia may reduce the risk of myocardial infarction and cardiovascular death after carotid endarterectomy** *Journal of Vascular Surgery*
Krievins, D., Zellans, E., Latkovskis, G., Babuskina, I., Kumsars, I., Jegere, S., Zvaigzne, L., Krievina, A. K., Erglis, A., Zarins, C. K.
2022; 76 (9): 750-759
- **Diagnosis of silent coronary ischemia with selective coronary revascularization might improve 2-year survival of patients with critical limb-threatening ischemia** *JOURNAL OF VASCULAR SURGERY*
Krievins, D., Zellans, E., Latkovskis, G., Kumsars, I., Jegere, S., Rumba, R., Bruvere, M., Zarins, C. K.
2021; 74 (4): 1261-1271
- **FFRct-guided revascularization of silent coronary ischemia compared to best medical therapy following lower-extremity revascularization** *Interventional Cardiology*
Latkovskis, G., Zellans, E., Krievina, A., Kumsars, I., Jegere, S., Erglis, A., Zarins, C., Krievins, D.
2021; 13 (S5): 93-102
- **Diagnosis and treatment of silent coronary ischemia may reduce adverse cardiac events and improve long-term survival of patients undergoing lower-extremity revascularization** *Journal of Vascular Medicine & Surgery*
Krievins, D., Zellans, E., Latkovskis, G., Zarins, C.
2021; 9 (5): 426
- **Diagnosis and management of silent coronary ischemia in patients undergoing carotid endarterectomy** *Journal of Vascular Surgery*
Krievins, D., Zellans, E., Latkovskis, G., Jegere, S., Kumsars, I., Kaufmanis, K., Erglis, A., Zarins, C. K.
2021; 73 (2): 533-541
- **Three-year survival of critical limb-threatening ischemia patients with FFRCT-guided coronary revascularization following lower-extremity revascularization** *Journal of Critical Limb Ischemia*
Zellans, E., Latkovskis, G., Zarins, C. K., Kumsars, I., Jegere, S., Krievina, A. K., Rumba, R., Krievins, D.
2021; 1 (4): E140-E147
- **computational medicine, present and the future: obstetrics and gynecology perspectiv** *American Journal of obstetrics and gynecology*
Bukowski, R., Schulz, K., Gaither, K., Stephens, K., Semeraro, D., Drake, J., Cordola, C., Zariphopoulou, T., Hughes, T., Zarins, C., Kusnezov, D., Howard, D., Oden, et al
2021: 16-34

- **Multidisciplinary approach to treat ruptured abdominal aortic aneurysm into the vena cava.** *Journal of vascular surgery cases and innovative techniques*
Lacis, A. n., Savlovskis, J. n., Kisis, K. n., Zellans, E. n., Zarins, C. K., Krievins, D. n.
2020; 6 (4): 588–89
- **pre-operative diagnosis of silent coronary ischaemia may reduce post-operative death and myocardial infarction and improve survival of patients undergoing lower extremity surgical revascularization** *Eur J Vasc Endovasc Surg*
Krievins, D., Zellans, E., Latkovskis, G., Erglis, A., Zvaigzne, L., Kumsars, I., Rumba, R., Stradins, P., Jegere, S., Zarins, C. K.
2020; 60: 411-420
- **Automated estimation of image quality for coronary computed tomographic angiography using machine learning** *EUROPEAN RADIOLOGY*
Nakanishi, R., Sankaran, S., Grady, L., Malpeso, J., Yousofi, R., Osawa, K., Ceponiene, I., Nazarat, N., Rahmani, S., Kissel, K., Jayawardena, E., Dailing, C., Zarins, et al
2018; 28 (9): 4018-4026
- **Initial Clinical Experience Using the Low-Profile Altura Endograft System With Double D-Shaped Proximal Stents for Endovascular Aneurysm Repair** *JOURNAL OF ENDOVASCULAR THERAPY*
Krievins, D., Kramer, A., Savlovskis, J., Oszkinis, G., Debus, E., Oberhuber, A., Zarins, C. K.
2018; 25 (3): 379–86
- **Impact of Coronary Remodeling on Fractional Flow Reserve** *CIRCULATION*
Collet, C., Katagiri, Y., Miyazaki, Y., Asano, T., Sonck, J., van Geuns, R., Andreini, D., Bittencourt, M. S., Kitslaar, P., Tenekecioglu, E., Tijssen, J. G. P., Piek, J. J., de Winter, et al
2018; 137 (7): 747-749
- **High prevalence of asymptomatic ischemia-producing coronary stenosis in patients with critical limb ischemia, Dainis Krievins, et. al., Vascular Disease Management 2018; 15(9):E96-E101** *High Prevalence of Asymptomatic Ischemia-Producing Coronary Stenosis in Patients with Critical Limb Ischemia: anatomic and functional assessment with coronary CT-derived fractional flow reserve (FFRct)*
Krievins, D., Zellans, E., Erglis, A., Zvaigzne, L., Lacis, A., Jegere, S., Kumsars, I., Latkovskis, G., Stradins, P., Zarins, C. K.
2018; 15 (9): E96-E101
- **Effect of the ratio of coronary arterial lumen volume to left ventricle myocardial mass derived from coronary CT angiography on fractional flow reserve.** *Journal of cardiovascular computed tomography*
Taylor, C. A., Gaur, S., Leipsic, J., Achenbach, S., Berman, D. S., Jensen, J. M., Dey, D., Botker, H. E., Kim, H. J., Khem, S., Wilk, A., Zarins, C. K., Bezerra, et al
2017
- **FFR Derived From Coronary CT Angiography in Nonculprit Lesions of Patients With Recent STEMI** *JACC-CARDIOVASCULAR IMAGING*
Gaur, S., Taylor, C. A., Jensen, J. M., Botker, H. E., Christiansen, E. H., Kaltoft, A. K., Holm, N. R., Leipsic, J., Zarins, C. K., Achenbach, S., Khem, S., Wilk, A., Bezerra, et al
2017; 10 (4): 424-433
- **Diagnostic performance of cardiac imaging methods to diagnose ischaemia-causing coronary artery disease when directly compared with fractional flow reserve as a reference standard: a meta-analysis** *EUROPEAN HEART JOURNAL*
Danad, I., Szymonifka, J., Twisk, J. R., Norgaard, B. L., Zarins, C. K., Knaapen, P., Min, J. K.
2017; 38 (13): 991-?
- **Preservation of hypogastric flow and control of iliac aneurysm size in the treatment of aortoiliac aneurysms using the Nellix EndoVascular Aneurysm Sealing endograft.** *Journal of vascular surgery*
Krievins, D. K., Savlovskis, J., Holden, A. H., Kisis, K., Hill, A. A., Gedins, M., Ezite, N., Zarins, C. K.
2016; 64 (5): 1262-1269
- **Rationale and Design of the CREDENCE Trial: computed Tomographic evaluation of atherosclerotic DEterminants of myocardial IsChEmia.** *BMC cardiovascular disorders*
Rizvi, A., Hartaigh, B. Ó., Knaapen, P., Leipsic, J., Shaw, L. J., Andreini, D., Pontone, G., Raman, S., Khan, M. A., Ridner, M., Nabi, F., Gimelli, A., Jang, et al
2016; 16 (1): 190-?
- **FFR Derived From Coronary CT Angiography in Nonculprit Lesions of Patients With Recent STEMI.** *JACC. Cardiovascular imaging*
Gaur, S., Taylor, C. A., Jensen, J. M., Bøtker, H. E., Christiansen, E. H., Kaltoft, A. K., Holm, N. R., Leipsic, J., Zarins, C. K., Achenbach, S., Khem, S., Wilk, A., Bezerra, et al

2016

- **Diagnostic performance of cardiac imaging methods to diagnose ischaemia-causing coronary artery disease when directly compared with fractional flow reserve as a reference standard: a meta-analysis.** *European heart journal*
Danad, I., Szymonifka, J., Twisk, J. W., Norgaard, B. L., Zarins, C. K., Knaapen, P., Min, J. K.
2016
- **Coronary Computed Tomography Angiography Derived Fractional Flow Reserve and Plaque Stress.** *Current cardiovascular imaging reports*
Nørgaard, B. L., Leipsic, J., Koo, B., Zarins, C. K., Jensen, J. M., Sand, N. P., Taylor, C. A.
2016; 9: 2-?
- **Aortic neck enlargement after endovascular aneurysm repair using balloon-expandable versus self-expanding endografts.** *Journal of vascular surgery*
Savlovskis, J., Krievins, D., de Vries, J. P., Holden, A., Kisis, K., Gedins, M., Ezite, N., Zarins, C. K.
2015; 62 (3): 541-549
- **Aortic neck enlargement after endovascular aneurysm repair using balloon-expandable versus self-expanding endografts** *JOURNAL OF VASCULAR SURGERY*
Savlovskis, J., Krievins, D., de Vries, J. P., Holden, A., Kisis, K., Gedins, M., Ezite, N., Zarins, C. K.
2015; 62 (3): 541-549
- **Gigantic 25-cm abdominal aortic aneurysm.** *Journal of vascular surgery*
Krievins, D., Thora, S., Zarins, C. K.
2015; 61 (4): 1067-?
- **Cost analysis of non-invasive fractional flow reserve derived from coronary computed tomographic angiography in Japan.** *Cardiovascular intervention and therapeutics*
Kimura, T., Shiomi, H., Kuribayashi, S., Isshiki, T., Kanazawa, S., Ito, H., Ikeda, S., Forrest, B., Zarins, C. K., Hlatky, M. A., Norgaard, B. L.
2015; 30 (1): 38-44
- **Human pluripotent stem cell tools for cardiac optogenetics.** *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference*
Zhuge, Y., Patlolla, B., Ramakrishnan, C., Beygui, R. E., Zarins, C. K., Deisseroth, K., Kuhl, E., Abilez, O. J.
2014; 2014: 6171-6174
- **Projected Costs and Consequences of Computed Tomography-Determined Fractional Flow Reserve** *CLINICAL CARDIOLOGY*
Hlatky, M. A., Saxena, A., Koo, B., Erglis, A., Zarins, C. K., Min, J. K.
2013; 36 (12): 743-748
- **Projected costs and consequences of computed tomography-determined fractional flow reserve.** *Clinical cardiology*
Hlatky, M. A., Saxena, A., Koo, B., Erglis, A., Zarins, C. K., Min, J. K.
2013; 36 (12): 743-748
- **Robust pluripotent stem cell expansion and cardiomyocyte differentiation via geometric patterning.** *Integrative biology*
Myers, F. B., Silver, J. S., Zhuge, Y., Beygui, R. E., Zarins, C. K., Lee, L. P., Abilez, O. J.
2013; 5 (12): 1495-1506
- **A computational framework for investigating the positional stability of aortic endografts** *BIOMECHANICS AND MODELING IN MECHANOBIOLOGY*
Prasad, A., Xiao, N., Gong, X., Zarins, C. K., Figueroa, C. A.
2013; 12 (5): 869-887
- **Computed Fractional Flow Reserve (FFRCT) Derived from Coronary CT Angiography** *JOURNAL OF CARDIOVASCULAR TRANSLATIONAL RESEARCH*
Zarins, C. K., Taylor, C. A., Min, J. K.
2013; 6 (5): 708-714
- **EVAR Deployment in Anatomically Challenging Necks Outside the IFU** *63rd Vascular Annual Meeting of the Society-for-Vascular-Surgery (SVS)*
Lee, J. T., Ullery, B. W., Zarins, C. K., Olcott, C., Harris, E. J., Dalman, R. L.
W B SAUNDERS CO LTD.2013: 65-73

- **Label-free electrophysiological cytometry for stem cell-derived cardiomyocyte clusters** *LAB ON A CHIP*
Myers, F. B., Zarins, C. K., Abilez, O. J., Lee, L. P.
2013; 13 (2): 220-228
- **Robust pluripotent stem cell expansion and cardiomyocyte differentiation via geometric patterning** *INTEGRATIVE BIOLOGY*
Myers, F. B., Silver, J. S., Yan Zhuge, Z. G., Beygui, R. E., Zarins, C. K., Lee, L. P., Abilez, O. J.
2013; 5 (12): 1495-1506
- **Inhibition of experimental abdominal aortic aneurysm in a rat model by way of tanshinone IIA** *JOURNAL OF SURGICAL RESEARCH*
Shang, T., Liu, Z., Zhou, M., Zarins, C. K., Xu, C., Liu, C.
2012; 178 (2): 1029-1037
- **Randomized Trials: A Quest for the Truth or a Means to an End?** *JOURNAL OF ENDOVASCULAR THERAPY*
Zarins, C. K.
2012; 19 (6): 761-763
- **Sideways displacement of the endograft within the aneurysm sac is associated with late adverse events after endovascular aneurysm repair** *Vascular Annual Meeting of the Society-for-Vascular-Surgery (SVS)*
Waasdorp, E. J., Gorrepati, M. L., Rafii, B. Y., de Vries, J. P., Zarins, C. K.
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- **VALIDATION OF A POWER LAW MODEL IN UPPER EXTREMITY VESSELS: POTENTIAL APPLICATION IN ULTRASOUND BLEED DETECTION** *ULTRASOUND IN MEDICINE AND BIOLOGY*
Wang, A. S., Liang, D. H., Bech, F., Lee, J. T., Zarins, C. K., Zhou, W., Taylor, C. A.
2012; 38 (4): 692-701
- **Computational Modeling of Shear-Based Hemolysis Caused by Renal Obstruction** *JOURNAL OF BIOMECHANICAL ENGINEERING-TRANSACTIONS OF THE ASME*
Segalova, P. A., Rao, K. T., Zarins, C. K., Taylor, C. A.
2012; 134 (2)
- **IN VITRO/IN SILICO CHARACTERIZATION OF ACTIVE AND PASSIVE STRESSES IN CARDIAC MUSCLE** *INTERNATIONAL JOURNAL FOR MULTISCALE COMPUTATIONAL ENGINEERING*
Boel, M., Abilez, O. J., Assar, A. N., Zarins, C. K., Kuhl, E.
2012; 10 (2): 171-188
- **Quality of Life After Endovascular Abdominal Aortic Aneurysm Repair: Nellix Sac-Anchoring Endoprosthesis Versus Open Surgery** *MEDICINA-LITHUANIA*
Kisis, K., Krievins, D., Naskovica, K., Gedins, M., Savlovskis, J., Ezite, N., Lietuvielis, E., Zarins, K.
2012; 48 (6): 286-291
- **Catheter-based renal sympathetic denervation: chronic preclinical evidence for renal artery safety** *CLINICAL RESEARCH IN CARDIOLOGY*
Rippy, M. K., Zarins, D., Barman, N. C., Wu, A., Duncan, K. L., Zarins, C. K.
2011; 100 (12): 1095-1101
- **Evaluating Design of Abdominal Aortic Aneurysm Endografts in a Patient-Specific Model Using Computational Fluid Dynamics** *JOURNAL OF MEDICAL DEVICES-TRANSACTIONS OF THE ASME*
Segalova, P. A., Xiong, G., Rao, K. T., Zarins, C. K., Taylor, C. A.
2011; 5 (4)
- **EVAR May Reduce the Risk of Aneurysm Rupture Despite Persisting Type Ia Endoleaks** *JOURNAL OF ENDOVASCULAR THERAPY*
Venermo, M. A., Arko, F. R., Salenius, J., Saarinen, J. P., Zvaigzne, A., Zarins, C. K.
2011; 18 (5): 676-682
- **Multiscale Computational Models for Optogenetic Control of Cardiac Function** *BIOPHYSICAL JOURNAL*
Abilez, O. J., Wong, J., Prakash, R., Deisseroth, K., Zarins, C. K., Kuhl, E.
2011; 101 (6): 1326-1334
- **Computational Analysis of Stresses Acting on Intermodular Junctions in Thoracic Aortic Endografts** *JOURNAL OF ENDOVASCULAR THERAPY*
Prasad, A., To, L. K., Gorrepati, M. L., Zarins, C. K., Figueroa, C. A.

2011; 18 (4): 559-568

- **EVAR Using the Nellix Sac-anchoring Endoprosthesis: Treatment of Favourable and Adverse Anatomy** *24th Annual Meeting of the European-Society-of-Vascular-Surgery (ESVS)*
Krievins, D. K., Holden, A., Savlovskis, J., Calderas, C., Donayre, C. E., Moll, F. L., Katzen, B., Zarins, C. K.
W B SAUNDERS CO LTD.2011: 38–46
- **Initial clinical experience with a sac-anchoring endoprosthesis for aortic aneurysm repair** *24th Annual Meeting of the Western-Vascular-Society*
Donayre, C. E., Zarins, C. K., Krievins, D. K., Holden, A., Hill, A., Calderas, C., Velez, J., White, R. A.
MOSBY-ELSEVIER.2011: 574–82
- **Long-term results of Talent endografts for endovascular abdominal aortic aneurysm repair** *Vascular Annual Meeting of the Society-for-Vascular-Surgery (SVS)*
Verhoeven, B. A., Waasdorp, E. J., Gorrepati, M. L., van Herwaarden, J. A., Vos, J. A., Wille, J., Moll, F. L., Zarins, C. K., de Vries, J. P.
MOSBY-ELSEVIER.2011: 293–98
- **Localized control of exsanguinating arterial hemorrhage: an experimental model.** *Polski przegląd chirurgiczny*
Haick, M. B., Abilez, O. J., Johnson, B. L., Xu, C., Taylor, C. A., Rich, N. M., Zarins, C. K.
2011; 83 (1): 1-9
- **Stimulation and Artifact-Free Extracellular Electrophysiological Recording of Cells in Suspension** *33rd Annual International Conference of the IEEE Engineering-in-Medicine-and-Biology-Society (EMBS)*
Myers, F. B., Abilez, O. J., Zarins, C. K., Lee, L. P.
IEEE.2011: 4030–4033
- **A matrix micropatterning platform for cell localization and stem cell fate determination** *ACTA BIOMATERIALIA*
Huang, N. F., Patlolla, B., Abilez, O., Sharma, H., Rajadas, J., Beygui, R. E., Zarins, C. K., Cooke, J. P.
2010; 6 (12): 4614-4621
- **Power Law as a Method for Ultrasound Detection of Internal Bleeding: In Vivo Rabbit Validation** *IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING*
Wang, A. S., Abilez, O. J., Zarins, C. K., Taylor, C. A., Liang, D. H.
2010; 57 (12): 2870-2875
- **Preliminary 3D computational analysis of the relationship between aortic displacement force and direction of endograft movement** *24th Annual Meeting of the Western-Vascular-Society*
Figueroa, C. A., Taylor, C. A., Yeh, V., Chiou, A. J., Gorrepati, M. L., Zarins, C. K.
MOSBY-ELSEVIER.2010: 1488–97
- **In Vivo Displacement Force (DF) Is Higher in Patients Who Experience Aortic Endograft Migration: A 3D Computational Analysis** *Vascular Annual Meeting of the Society-for-Vascular-Surgery (SVS)*
Figueroa, C. A., Yeh, V., Taylor, C. A., Gorrepati, M. L., Zarins, C. K.
MOSBY-ELSEVIER.2010: 93S–93S
- **Endovascular repair compared with surveillance for patients with small abdominal aortic aneurysms** *JOURNAL OF VASCULAR SURGERY*
Ouriel, K., Clair, D. G., Kent, K. C., Zarins, C. K.
2010; 51 (5): 1081-1087
- **Management of a Chronic Carotid Artery Pseudoaneurysm** *VASCULAR AND ENDOVASCULAR SURGERY*
Baker, A. C., Arko, F. R., Zarins, C. K., Lee, E. S.
2010; 44 (1): 61-63
- **IN VITRO ASSESSMENT OF RAT HEART FORCE GENERATION: A QUANTITATIVE APPROACH FOR PREDICTING OUTCOMES FROM PLURIPOTENT STEM CELL-DERIVED THERAPY FOR MYOCARDIAL INFARCTION** *12th ASME Summer Bioengineering Conference*
Guillou, L., Abilez, O. J., Baugh, J., Billakanti, G., Zarins, C. K., Kuhl, E.
AMER SOC MECHANICAL ENGINEERS.2010: 717–718
- **Volume associated dynamic geometry and spatial orientation of the inferior vena cava** *JOURNAL OF VASCULAR SURGERY*
Murphy, E. H., Arko, F. R., Trimmer, C. K., Phangureh, V. S., Fogarty, T. J., Zarins, C. K.
2009; 50 (4): 835-843

- **Open surgical repair after failed endovascular aneurysm repair: Is endograft removal necessary?** *JOURNAL OF VASCULAR SURGERY*
Nabi, D., Murphy, E. H., Pak, J., Zarins, C. K.
2009; 50 (4): 714-721
- **Carotid Revascularization Using Endarterectomy or Stenting Systems (CaRESS): 4-Year Outcomes** *20th Annual Transcatheter Cardiovascular Therapeutics Conference*
Zarins, C. K., White, R. A., Diethrich, E. B., Shackelton, R. J., Siami, F. S.
ALLIANCE COMMUNICATIONS GROUP DIVISION ALLEN PRESS.2009: 397-409
- **Outcome of open versus endovascular revascularization for chronic mesenteric ischemia: review of comparative studies** *JOURNAL OF CARDIOVASCULAR SURGERY*
Assar, A. N., Abilez, O. J., Zarins, C. K.
2009; 50 (4): 509-514
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