



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

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

CLINICAL TRIALS

- Endovascular Repair of Abdominal Aortic Aneurysms, Not Recruiting
- Endovascular Repair of Descending Thoracic Aortic Aneurysms, Not Recruiting

Publications

PUBLICATIONS

- **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
- **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 (FFR_{CT})*
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
 - **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.
MOSBY-ELSEVIER.2012: 947-55
 - **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 przeglad 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., Patolla, 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
- **Effect of Curvature on Displacement Forces Acting on Aortic Endografts: A 3-Dimensional Computational Analysis** *21st International Congress of Endovascular Interventions*
Figueroa, C. A., Taylor, C. A., Yeh, V., Chiou, A. J., Zarins, C. K.
ALLIANCE COMMUNICATIONS GROUP DIVISION ALLEN PRESS.2009: 284–94
- **Magnitude and Direction of Pulsatile Displacement Forces Acting on Thoracic Aortic Endografts** *JOURNAL OF ENDOVASCULAR THERAPY*
Figueroa, C. A., Taylor, C. A., Chiou, A. J., Yeh, V., Zarins, C. K.
2009; 16 (3): 350-358
- **The Association between Iliac Fixation and Proximal Stent-graft Migration during EVAR Follow-up: Mid-term Results of 154 Talent Devices** *EUROPEAN JOURNAL OF VASCULAR AND ENDOVASCULAR SURGERY*
Waasdorp, E. J., De Vries, J. P., STERKENBURG, A., Vos, J., Kelder, H. J., Moll, F. L., Zarins, C. K.
2009; 37 (6): 681-687
- **Endovascular proximal control of ruptured abdominal aortic aneurysms: the internal aortic clamp** *JOURNAL OF CARDIOVASCULAR SURGERY*
Assar, A. N., Zarins, C. K.
2009; 50 (3): 381-385
- **Initial experience characterizing a type I endoleak from velocity profiles using time-resolved three-dimensional phase-contrast MRI** *JOURNAL OF VASCULAR SURGERY*
Hope, T. A., Zarins, C. K., Herfkens, R. J.
2009; 49 (6): 1580-1584
- **Ruptured abdominal aortic aneurysm: a surgical emergency with many clinical presentations** *POSTGRADUATE MEDICAL JOURNAL*
Assar, A. N., Zarins, C. K.
2009; 85 (1003): 268-273
- **Circumferential and longitudinal cyclic strain of the human thoracic aorta: Age-related changes** *JOURNAL OF VASCULAR SURGERY*
Morrison, T. M., Choi, G., Zarins, C. K., Taylor, C. A.
2009; 49 (4): 1029-1036
- **Endovascular device design in the future: transformation from trial and error to computational design.** *Journal of endovascular therapy*
Zarins, C. K., Taylor, C. A.
2009; 16: 112-21
- **A LONGITUDINAL STUDY OF MIGRATION FORCES ON A PATIENT-SPECIFIC ABDOMINAL AORTIC ENDOGRAFT MODEL** *ASME Summer Bioengineering Conference*
Yeh, V., Chiou, A., Taylor, C. A., Zarins, C. K., Figueroa, C. A.
AMER SOC MECHANICAL ENGINEERS.2009: 771–772
- **Endovascular Device Design in the Future: Transformation From Trial and Error to Computational Design** *JOURNAL OF ENDOVASCULAR THERAPY*
Zarins, C. K., Taylor, C. A.
2009; 16: 12-21
- **AGE-RELATED CHANGES IN THE BIOMECHANICAL CYCLIC STRAIN OF THE HUMAN THORACIC AORTA** *ASME Summer Bioengineering Conference*
Morrison, T. M., Choi, G., Segalova, P. A., Zarins, C. K., Taylor, C. A.
AMER SOC MECHANICAL ENGINEERS.2009: 751–752
- **Atherosclerotic Peripheral Vascular Disease Symposium II Controversies in Abdominal Aortic Aneurysm Repair** *CIRCULATION*
Pearce, W. H., Zarins, C. K., Bacharach, J. M.
2008; 118 (25): 2860-2863
- **Acute mesenteric ischaemia: facts and perspectives** *BRITISH JOURNAL OF HOSPITAL MEDICINE*

- Assar, A. N., Zarins, C. K.
2008; 69 (12): 686-691
- **A killer at large: acute aortic dissection** *BRITISH JOURNAL OF HOSPITAL MEDICINE*
Assar, A. N., Zarins, C. K.
2008; 69 (11): 626-631
 - **Evaluation of the crux IVC filter in an animal model** *JOURNAL OF ENDOVASCULAR THERAPY*
Murphy, E. H., White, R. A., Rosenthal, D., Johnson, E. D., Zarins, C. K., Fogarty, T. J., Arko, F. R.
2008; 15 (3): 292-299
 - **Lateral movement of endografts within the aneurysm sac is an indicator of stent-graft instability** *21st International Congress on Endovascular Interventions*
Rafii, B. Y., Abilez, O. J., Benharash, P., Zarins, C. K.
ALLIANCE COMMUNICATIONS GROUP DIVISION ALLEN PRESS.2008: 335-43
 - **The three-dimensional micro- and nanostructure of the aortic medial lamellar unit measured using 3D confocal and electron microscopy imaging** *MATRIX BIOLOGY*
O'Connell, M. K., Murthy, S., Phan, S., Xu, C., Buchanan, J., Spilker, R., Dalman, R. L., Zarins, C. K., Denk, W., Taylor, C. A.
2008; 27 (3): 171-181
 - **Dynamic geometry and wall thickness of the aortic neck of abdominal aortic aneurysms with intravascular ultrasonography** *31st Annual Meeting of the Southern-Association-for-Vascular-Surgery*
Arko, F. R., Murphy, E. H., Davis, C. M., Johnson, E. D., Smith, S. T., Zarins, C. K.
MOSBY-ELSEVIER.2007: 891-97
 - **In vivo imaging and evaluation of different biomatrices for improvement of stem cell survival** *JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE*
Cao, F., Rafie, A. H., Abilez, O. J., Wang, H., Blundo, J. T., Pruitt, B., Zarins, C., Wu, J. C.
2007; 1 (6): 465-468
 - **Increased anterior abdominal aortic wall motion: Possible role in aneurysm pathogenesis and design of endovascular devices** *JOURNAL OF ENDOVASCULAR THERAPY*
Goergen, C. J., Johnson, B. L., Greve, J. M., Taylor, C. A., Zarins, C. K.
2007; 14 (4): 574-584
 - **Iliac fixation inhibits migration of both suprarenal and infrarenal aortic endografts** *60th Annual Meeting of the Society-for-Vascular-Surgery*
Benharash, P., Lee, J. T., Abilez, O. J., Crabtree, T., Bloch, D. A., Zarins, C. K.
MOSBY-ELSEVIER.2007: 250-57
 - **Pulsatile pressure system for cellular mechanical stimulation** *ASME Summer Bioengineering Conference*
Taylor, R., Abilez, O., Cao, F., Wu, J., Xu, C., Zarins, C., Pruitt, B.
AMER SOC MECHANICAL ENGINEERS.2007: 1009-1010
 - **Nonuniform circumferential deformation of the abdominal aorta: A cross-species comparison** *ASME Summer Bioengineering Conference*
Goergen, C. J., Johnson, B. L., Greve, J. M., Zarins, C. K., Taylor, C. A.
AMER SOC MECHANICAL ENGINEERS.2007: 131-132
 - **Intraoperative colon mucosal oxygen saturation during aortic surgery** *1st Annual Academic Surgical Congress of the Association-for-Academic-Surgery*
Lee, E. S., Bass, A., Arko, F. R., Heikkinen, M., Harris, E. J., Zarins, C. K., van der Starre, P., Olcott, C.
ACADEMIC PRESS INC ELSEVIER SCIENCE.2006: 19-24
 - **Endovascular aneurysm repair at 5 years: does aneurysm diameter predict outcome?** *30th Annual Meeting of the Southern-Association-for-Vascular-Surgery*
Zarins, C. K., Crabtree, T., Bloch, D. A., Arko, F. R., Ouriel, K., White, R. A.
MOSBY-ELSEVIER.2006: 920-29
 - **P19 progenitor cells progress to organized contracting myocytes after chemical and electrical stimulation: Implications for vascular tissue engineering** *JOURNAL OF ENDOVASCULAR THERAPY*
Abilez, O., Benharash, P., Miyamoto, E., Gale, A., Xu, C., Zarins, C. K.
2006; 13 (3): 377-388
 - **The importance of iliac fixation in prevention of stent graft migration** *29th Annual Meeting of the Southern-Association-for-Vascular-Surgery*

Heikkinen, M. A., Alsac, J. M., Arko, F. R., Metsanoja, R., Zvaigzne, A., Zarins, C. K.
MOSBY-ELSEVIER.2006: 1130-37

- **A novel culture system shows that stem cells can be grown in 3D and under physiologic pulsatile conditions for tissue engineering of vascular grafts** *39th Annual Meeting of the Association-for-Academic-Surgery*
Abilez, O., Benharash, P., Mehrotra, M., Miyamoto, E., Gale, A., Picquet, J., Xu, C. P., Zarins, C.
ACADEMIC PRESS INC ELSEVIER SCIENCE.2006: 170-78
- **Polymethylmethacrylate (PMMA) as an embedding medium preserving tissues and foreign materials encroaching in endovascular devices** *ARTIFICIAL CELLS BLOOD SUBSTITUTES AND BIOTECHNOLOGY*
Guidoin, R., Zhang, Z., Douville, Y., Basle, M., Grizon, F., Marinov, G. R., Zarins, C. K., Legrand, A. P., Guzman, R.
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