Stanford



R. Scott Mitchell

Professor of Cardiothoracic Surgery at the Stanford University Medical Center, Emeritus

Curriculum Vitae available Online

CONTACT INFORMATION

- **Alternate Contact**

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Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty-Med Ctr Line, Cardiothoracic Surgery
- Member, Cardiovascular Institute

PROFESSIONAL EDUCATION

- Resident, Department of Cardiovascular Surgery, Stanford University Hospital , Cardiovascular Surgery (1983)
- Fellowship, Department of Cardiovascular Surgery, Stanford University Hospital , Vascular Surgery (1980)
- Residency, Department of General Surgery, Stanford University Hospital , General Surgery (1978)
- MD, Northwestern University Medical School , Medicine (1970)

LINKS

- Stanford Adult Cardiac Services: http://med.stanford.edu/ctsurgery/clinical-care/adult-cardiac-surgery-services.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Research Interests: Disease of the aorta, congenital and acquired. Treatment of aortic pathology, including development of stent graft systems. Patterns of disease in patients treated with mediastinal radiation. Valvular heart disease, especially aortopathy associated with congenital bicuspid aortic valve.

Publications

PUBLICATIONS

- **Symptomatic Myocardial Bridging in D-Transposition of the Great Arteries Post-Arterial Switch** *JACC: Case Reports, Vol 8, Iss , Pp 101730-(2023)*

  Vaikunth, S. S., Murphy, D. J., Tremmel, J. A., Schnittger, I., Mitchell, R. S., Maeda, K., Rogers, I. S.

  2023

- **Commentary: Reoperative surgery on the aortic arch is not for the inexperienced.** *Seminars in thoracic and cardiovascular surgery*

  Mitchell, R. S.

2021

- **Type A Aortic Dissection-Experience Over 5 Decades: JACC Historical Breakthroughs in Perspective.** *Journal of the American College of Cardiology*
  Zhu, Y. n., Lingala, B. n., Baiocchi, M. n., Tao, J. J., Toro Arana, V. n., Khoo, J. W., Williams, K. M., Traboulsi, A. A., Hammond, H. C., Lee, A. M., Hiesinger, W. n., Boyd, J. n., Oyer, et al
  2020; 76 (14): 1703–13
- **Off-Pump Mini Thoracotomy Versus Sternotomy for Left Anterior Descending Myocardial Bridge Unroofing.** *The Annals of thoracic surgery*
  Wang, H. n., Pargaonkar, V. S., Hironaka, C. E., Bajaj, S. S., Abbot, C. J., O'Donnell, C. T., Miller, S. L., Honda, Y. n., Rogers, I. S., Tremmel, J. A., Fischbein, M. P., Mitchell, R. S., Schnittger, et al
  2020
- **Commentary: Endograft repair of complicted aortic dissection in Marfan patients** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Mitchell, R.
  2019; 157 (6): E303
- **Commentary: Is surgical field insufflation with carbon dioxide an antidote for airhead(s)?** *The Journal of thoracic and cardiovascular surgery*
  Mitchell, R. S.
  2019
- **Endovascular Versus Open Repair of Intact Descending Thoracic Aortic Aneurysms** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
  Chiu, P., Goldstone, A. B., Schaffer, J. M., Lingala, B., Miller, D., Mitchell, R., Woo, Y., Fischbein, M. P., Dake, M. D.
  2019; 73 (6): 643–51
- **A real-world experience: Really?** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Mitchell, R.
  2018; 156 (6): 2074–75
- **Acute aortic dissections with entry tear in the aortic arch: International Registry of Acute Aortic Dissection to the rescue** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Mitchell, R.
  2018; 156 (5): 1794
- **Surgical unroofing of hemodynamically significant myocardial bridges in a pediatric population**
  Maeda, K., Schnittger, I., Murphy, D. J., Tremmel, J. A., Boyd, J. H., Peng, L., Okada, K., Pargaonkar, V. S., Hanley, F. L., Mitchell, R., Rogers, I. S.
  MOSBY-ELSEVIER.2018: 1618–26
- **Acute aortic dissections with entry tear in the aortic arch: International Registry of Acute Aortic Dissection to the rescue.** *The Journal of thoracic and cardiovascular surgery*
  Mitchell, R. S.
  2018
- **Surgical unroofing of hemodynamically significant myocardial bridges in a pediatric population.** *The Journal of thoracic and cardiovascular surgery*
  Maeda, K., Schnittger, I., Murphy, D. J., Tremmel, J. A., Boyd, J. H., Peng, L., Okada, K., Pargaonkar, V. S., Hanley, F. L., Mitchell, R. S., Rogers, I. S.
  2018
- **A real-world experience: Really?** *The Journal of thoracic and cardiovascular surgery*
  Mitchell, R. S.
  2018
- **Outcomes of hybrid procedure for type B aortic dissection with an aberrant right subclavian artery COMMENTARY** *JOURNAL OF VASCULAR SURGERY*
  Mitchell, R.
  2018; 67 (3): 711–12
- **Acute Limited Intimal Tears of the Thoracic Aorta.** *Journal of the American College of Cardiology*
  Chin, A. S., Willemink, M. J., Kino, A. n., Hinostroza, 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

- **Impact of Discordant Views in the Management of Descending Thoracic Aortic Aneurysm** *SEMINARS IN THORACIC AND CARDIOVASCULAR SURGERY*
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  2017; 29 (3): 283–91
- **Surgical Unroofing of Hemodynamically Significant Left Anterior Descending Myocardial Bridges.** *Annals of thoracic surgery*
  Boyd, J. H., Pargaonkar, V. S., Scoville, D. H., Rogers, I. S., Kimura, T., Tanaka, S., Yamada, R., Fischbein, M. P., Tremmel, J. A., Mitchell, R. S., Schnittger, I.
  2016
- **Pre- and Postoperative Imaging of the Aortic Root.** *Radiographics*
  Hanneman, K., Chan, F. P., Mitchell, R. S., Miller, D. C., Fleischmann, D.
  2016; 36 (1): 19-37
- **Midterm Outcomes of Open Descending Thoracic Aortic Repair in More Than 5,000 Medicare Patients** *ANNALS OF THORACIC SURGERY*
  Schaffer, J. M., Lingala, B., Fischbein, M. P., Dake, M. D., Woo, Y. J., Mitchell, R. S., Miller, D. C.
  2015; 100 (6): 2087-2094
- **This side up-Handle with care** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Fann, J. I., Mitchell, R.
  2015; 150 (6): 1639–40
- **Consensus statement on surgical pathology of the aorta from the Society for Cardiovascular Pathology and the Association for European Cardiovascular Pathology: I. Inflammatory diseases** *CARDIOVASCULAR PATHOLOGY*
  Stone, J. R., Bruneval, P., Angelini, A., Bartoloni, G., Basso, C., Batoroeva, L., Buja, L. M., Butany, J., D'Amati, G., Fallon, J. T., Gittenberger-de Groot, A. C., Gouveia, R. H., Halushka, et al
  2015; 24 (5): 267-278
- **Midterm survival after thoracic endovascular aortic repair in more than 10,000 Medicare patients** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Schaffer, J. M., Lingala, B., Miller, C., Woo, J., Mitchell, R. S., Dake, M. D.
  2015; 149 (3): 808-820
- **Tirone David procedure for bicuspid aortic valve disease: impact of root geometry and valve type on mid-term outcomes†.** *Interactive cardiovascular and thoracic surgery*
  Kari, F. A., Kvitting, J. E., Stephens, E. H., Liang, D. H., Merk, D. R., Fischbein, M. P., Mitchell, R. S., Miller, D. C.
  2014; 19 (3): 375-381
- **Incidence and progression of mild aortic regurgitation after Tirone David reimplantation valve-sparing aortic root replacement** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Stephens, E. H., Liang, D. H., Kvitting, J. E., Kari, F. A., Fischbein, M. P., Mitchell, R. S., Miller, D. C.
  2014; 147 (1): 169-?
- **Chest Pain, Dyspnea On Exertion, And Severe Exercise Intolerance: Evaluation And Diagnosis In An Adolescent With Multiple Medical Comorbidities**
  Tracy, M. C., Rogers, I. S., Maeda, K., Mitchell, R., Tremmel, J., Schnittger, I., Robinson, T. E.
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- **Tirone David valve-sparing aortic root replacement and cusp repair for bicuspid aortic valve disease** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Kari, F. A., Liang, D. H., Kvitting, J. E., Stephens, E. H., Mitchell, R. S., Fischbein, M. P., Miller, D. C.
  2013; 145 (3): S35-?
- **David valve-sparing aortic root replacement: Equivalent mid-term outcome for different valve types with or without connective tissue disorder** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Kvitting, J. E., Kari, F. A., Fischbein, M. P., Liang, D. H., Beraud, A., Stephens, E. H., Mitchell, R. S., Miller, D. C.
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- **Invited commentary.** *Annals of thoracic surgery*
  Mitchell, R. S.
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- **Endovascular repair of traumatic thoracic aortic injury: Clinical practice guidelines of the Society for Vascular Surgery** *JOURNAL OF VASCULAR SURGERY*
  Lee, W. A., Matsumura, J. S., Mitchell, R. S., Farber, M. A., Greenberg, R. K., Azizzadeh, A., Murad, M. H., Fairman, R. M.
  2011; 53 (1): 187-192
- **Early outcomes of deliberate nonoperative management for blunt thoracic aortic injury in trauma** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Caffarelli, A. D., Mallidi, H. R., Maggio, P. M., Spain, D. A., Miller, D. C., Mitchell, R. S.
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  Mitchell, R. S.
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  Mitchell, R. S.
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- **The Society for Vascular Surgery Practice Guidelines: Management of the left subclavian artery with thoracic endovascular aortic repair** *JOURNAL OF VASCULAR SURGERY*
  Matsumura, J. S., Lee, W. A., Mitchell, R. S., Farber, M. A., Murad, M. H., Lumsden, A. B., Greenberg, R. K., Safi, H. J., Fairman, R. M.
  2009; 50 (5): 1155-1158
- **Infolding and collapse of thoracic endoprostheses: Manifestations and treatment options** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Sze, D. Y., Mitchell, R. S., Miller, D. C., Fleischmann, D., Frisoli, J. K., Kee, S. T., Verma, A., Sheehan, M. P., Dake, M. D.
  2009; 138 (2): 324-333
- **Factors Portending Endoleak Formation After Thoracic Aortic Stent-Graft Repair of Complicated Aortic Dissection** *CIRCULATION-CARDIOVASCULAR INTERVENTIONS*
  Sze, D. Y., Van den Bosch, M. A., Dake, M. D., Miller, D. C., Hofmann, L. V., Varghese, R., Malaisrie, S. C., van der Starre, P. J., Rosenberg, J., Mitchell, R. S.
  2009; 2 (2): 105-112
- **Improvement in coronary anastomosis with cardiac surgery simulation** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Fann, J. I., Caffarelli, A. D., Georgette, G., Howard, S. K., Gaba, D. M., Youngblood, P., Mitchell, S., Burdon, T. A.
  2008; 136 (6): 1486-1491
- **Pre- and Postoperative Imaging of the Aortic Root for Valve-Sparing Aortic Root Repair (V-SARR)** *SEMINARS IN THORACIC AND CARDIOVASCULAR SURGERY*
  Fleischmann, D., Liang, D. H., Mitchell, R., Miller, D.
  2008; 20 (4): 365–73
- **Acute Aortic Syndromes: New Insights from Electrocardiographically Gated Computed Tomography** *SEMINARS IN THORACIC AND CARDIOVASCULAR SURGERY*
  Fleischmann, D., Mitchell, R., Miller, D.
  2008; 20 (4): 340–47
- **Complicated acute type B aortic dissection: Midterm results of emergency endovascular stent-grafting** *31st Annual Meeting of the Western-Thoracic-Surgical-Association*
  Verhoye, J. P., Miller, D. C., Sze, D., Dake, M. D., Mitchell, R. S.
  MOSBY-ELSEVIER.2008: 424–30

- **Treatment of acute type b aortic dissection: New and improved?** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Mitchell, R. S.
  2008; 135 (6): 1201-1201

- **The aortopathy of bicuspid aortic valve disease has distinctive patterns and usually involves the transverse aortic arch** *33rd Annual Meeting of the Western-Thoracic-Surgical-Association*
  Fazel, S. S., Mallidi, H. R., Lee, R. S., Sheehan, M. P., Liang, D., Fleischman, D., Herfkens, R., Mitchell, S., Miller, D. C.
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- **Invited commentary.** *Annals of thoracic surgery*
  Mitchell, R. S.
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- **Acute aortic syndromes: new insights from electrocardiographically gated computed tomography.** *Seminars in thoracic and cardiovascular surgery*
  Fleischmann, D., Mitchell, R. S., Miller, D. C.
  2008; 20 (4): 340-347

- **Pre- and postoperative imaging of the aortic root for valve-sparing aortic root repair (V-SARR).** *Seminars in thoracic and cardiovascular surgery*
  Fleischmann, D., Liang, D. H., Mitchell, R. S., Miller, D. C.
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- **Advances in aortic surgery**
  Mitchell, R. S.
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- **Intraoperative monitoring of elephant trunk kinking with transesophageal echocardiography** *JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA*
  Oakes, D. A., Sze, D. Y., Frisoli, J. K., Mitchell, R. S., Harris, E. J., Thu, C., van der Starre, P. J.
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- **Rapid aneurysmal degeneration of a Stanford type B aortic dissection in a patient with Loeys-Dietz syndrome** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Lee, R. S., Fazel, S., Schwarze, U., Fleischmann, D., Berry, G. J., Liang, D., Miller, D. C., Mitchell, R. S.
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- **Invited commentary.** *Annals of thoracic surgery*
  Mitchell, R. S.
  2007; 83 (5): 1640-?

- **Endovascular stent grafting versus open surgical repair of descending thoracic aortic aneurysms in low-risk patients: A multicenter comparative trial** *85th Annual Meeting of the American-Association-for-Thoracic-Surgery*
  Bavaria, J. E., Appoo, J. J., Makaroun, M. S., Verter, J., Yu, Z., Mitchell, R. S.
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- **Early computed tomographic control** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Mitchell, R. S.
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- **Stent-graft repair of an aortic rupture caused by invasive hemangiopericytoma** *ANNALS OF THORACIC SURGERY*
  van der Starre, P. J., Sze, D. Y., Guta, C., Mitchell, R. S., Dake, M. D.
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- **Unusual case of late thoracic stent graft failure after cardioversion** *ANNALS OF THORACIC SURGERY*
  Caffarelli, A. D., BANOVAC, F., Cheung, S. C., Fleischmann, D., Mitchell, R. S.
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- **Aortic neck morphology after endovascular repair of descending thoracic aortic aneurysms** *59th Annual Meeting of the Society-for-Vascular-Surgery*
  Hassoun, H. T., Mitchell, R. S., Makaroun, M. S., Whiting, A. J., Cardeira, K. R., Matsumura, J. S.

MOSBY-ELSEVIER.2006: 26–31

- **Third International Summit on thoracic aortic endografting: Lessons from long-term results of thoracic stent-graft repairs** *JOURNAL OF ENDOVASCULAR THERAPY*
  Mitchell, R. S., Ishimaru, S., Criado, F. J., Ehrlich, M. P., Ivancev, K., Lachat, M., Malina, M., May, J., Orend, K. H., Rousseau, H., Williams, D. M.
  2005; 12 (1): 89-97

- **Midterm results of endovascular repair of descending thoracic aortic aneurysms with first-generation stent grafts** *29th Annual Meeting of the Western-Thoracic-Surgical-Association*
  Demers, P., Miller, D. C., Mitchell, R. S., Kee, S. T., Sze, D., Razavi, M. K., Dake, M. D.
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- **Chronic traumatic aneurysms of the descending thoracic aorta: mid-term results of endovascular repair using first and second-generation stent-grafts** *EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY*
  Demers, P., Miller, C., Mitchell, R. S., Kee, S. T., Chagonjian, R. N., Dake, M. D.
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- **Stent-graft repair of penetrating atherosclerotic ulcers in the descending thoracic aorta: Mid-term results** *ANNALS OF THORACIC SURGERY*
  Demers, P., Miller, D. C., Mitchell, R. S., Kee, S. T., Chagonjian, L., Dake, M. D.
  2004; 77 (1): 81-86

- **Acute type A aortic dissection complicated by aortic regurgitation: Composite valve graft versus separate valve graft versus conservative valve repair** *28th Annual Meeting of the Western-Thoracic-Surgical-Association*
  Lai, D. T., Miller, D. C., Mitchell, R. S., Oyer, P. E., Moore, K. A., Robbins, R. C., Shumway, N. E., Reitz, B. A.
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- **Femoro-femoral partial bypass in the treatment of thoracoabdominal aneurysms.** *Seminars in thoracic and cardiovascular surgery*
  Coady, M. A., Mitchell, R. S.
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- **Cavoatrial tumor thrombus excision without circulatory arrest** *UROLOGY*
  Shinghal, R., Vricella, L. A., Mitchell, R. S., Presti, J.
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- **Endovascular stent-graft repair of descending thoracic aortic penetrating atherosclerotic ulcers: Mid-term results** *52nd Annual Scientific Session of the American-College-of-Cardiology*
  Demers, P., Miller, D. C., Mitchell, R. S., Kee, S. T., Chagonjian, L., Dake, M. D.
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- **Is medical therapy still the optimal treatment strategy for patients with acute type B aortic dissections?** *27th Annual Meeting of the Western-Thoracic-Surgical-Association*
  Umana, J. P., Lai, D. T., Mitchell, R. S., Moore, K. A., Rodriguez, F., Robbins, R. C., Oyer, P. E., Dake, M. D., Shumway, N. E., Reitz, B. A., Miller, D. C.
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- **What is the best treatment for patients with acute type B aortic dissections - Medical, surgical, or endovascular stent-grafting?** *Aortic Surgery Symposium VIII*
  Umana, J. P., Miller, D. C., Mitchell, R. S.
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- **Stent grafts for the thoracic aorta: A new paradigm?** *Aortic Surgery Symposium VIII*
  Mitchell, R. S.
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- **Does profound hypothermic circulatory arrest improve survival in patients with acute type a aortic dissection?** *Circulation*
  Lai, D. T., Robbins, R. C., Mitchell, R. S., Moore, K. A., Oyer, P. E., Shumway, N. E., Reitz, B. A., Miller, D. C.
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- **Prognosis of aortic intramural hematoma with and without penetrating atherosclerotic ulcer - A clinical and radiological analysis** *CIRCULATION*
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- **First International Summit on Thoracic Aortic Endografting: roundtable on thoracic aortic dissection as an indication for endografting.** *Journal of endovascular therapy*
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- **Ruptured abdominal aortic aneurysm after endovascular repair** *JOURNAL OF VASCULAR SURGERY*
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- **Thoracic aortic stent-grafts** *CORONARY ARTERY DISEASE*
  Umana, J. P., Mitchell, R. S.
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- **Does hypothermic circulatory arrest (PHCA) improve survival in patients with acute type A aortic dissection?**
  Lai, D. T., Robbins, R. C., Mitchell, R. S., Moore, K. A., Oyer, P. E., Shumway, N. E., Reitz, B. A., Miller, D. C.
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  Moon, M. R., Miller, D. C., Moore, K. A., Oyer, P. E., Mitchell, R. S., Robbins, R. C., Stinson, E. B., Shumway, N. E., Reitz, B. A.
  2001; 71 (4): 1164-1171

- **Endovascular treatment of aortic dissections and thoracic aortic aneurysms.** *Seminars in vascular surgery*
  Umana, J. P., Mitchell, R. S.
  2000; 13 (4): 290-298

- **Endovascular repair of abdominal aortic aneurysms: Eligibility rate and impact on the rate of open repair** *JOURNAL OF VASCULAR SURGERY*
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  Mitchell, R. S.
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- **Percutaneous balloon fenestration and stenting for life-threatening ischemic complications in patients with acute aortic dissection** *24th Annual Meeting of the Western-Thoracic-Surgical-Association*
  Slonim, S. M., Miller, D. C., Mitchell, R. S., Semba, C. P., Razavi, M. K., Dake, M. D.
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- **Thoracic aortic aneurysm repair with an endovascular stent graft: The "first generation"** *Aortic Surgery Symposium VI*
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  Dake, M., Semba, C., Kee, S., Razavi, M., Slonim, S., Samuels, S., Sze, D., Mitchell, R., Miller, D.

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- **The "first generation" of endovascular stent-grafts for patients with aneurysms of the descending thoracic aorta** *78th Annual Meeting of the American-Association-for-Thoracic-Surgery*
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  Dake, M. D., Kato, N., Slonim, S. M., Razavi, M. K., Semba, C. P., Kee, S. T., Sze, D. Y., Samuels, S. L., Mitchell, R. S., Miller, D. C.
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- **Aneurysm of an aberrant right subclavian artery: Treatment with PTFE covered stentgraft** *JOURNAL OF VASCULAR SURGERY*
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