

# Stanford

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## Thomas Burdon

Professor of Cardiothoracic Surgery (Adult Cardiac Surgery)

### Bio

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#### ACADEMIC APPOINTMENTS

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

#### LINKS

- Stanford Adult Cardiac Services: <http://med.stanford.edu/ctsurgery/clinical-care/adult-cardiac-surgery-services.html>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

New technologies in the area of catheters, clamps, and, visualization devices for aid in cardiac surgery; distribution of, cardioplegia, both antegrade and retrograde as determined by, techniques in technetium pyro-phosphate scans; glucose insulin, potassium as an adjunct in cardiac surgery.

#### CLINICAL TRIALS

- Exploratory Evaluation of AR-42 Histone Deacetylase Inhibitor in the Treatment of Vestibular Schwannoma and Meningioma, 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 (SURTAVI)., Not Recruiting

### Publications

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#### PUBLICATIONS

- **Health Status After Transcatheter Aortic Valve Replacement in Patients at Extreme Surgical Risk: Results From the CoreValve U.S. Trial.** *JACC. Cardiovascular interventions*  
Osnabrugge, R. L., Arnold, S. V., Reynolds, M. R., Magnuson, E. A., Wang, K., Gaudiani, V. A., Stoler, R. C., Burdon, T. A., Kleiman, N., Reardon, M. J., Adams, D. H., Popma, J. J., Cohen, et al  
2015; 8 (2): 315-323
- **Individual differences in field independence influence the ability to determine accurate needle angles** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*  
Sheikh, A. Y., Keehner, M., Walker, A., Chang, P. A., Burdon, T. A., Fann, J. I.  
2014; 148 (5): 1804-1810
- **Individual differences in field independence influence the ability to determine accurate needle angles.** *journal of thoracic and cardiovascular surgery*  
Sheikh, A. Y., Keehner, M., Walker, A., Chang, P. A., Burdon, T. A., Fann, J. I.  
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- **Establishment of a transcatheter aortic valve program and heart valve team at a Veterans Affairs facility** *36th Annual Meeting of the Association-of-VA-Surgeons*  
Bakaeen, F. G., Kar, B., Chu, D., Cornwell, L. D., Blaustein, A., Levine, G. N., Paniagua, D., Jneid, H., Jensen, C., Atluri, P. V., Bechara, C. F., Kougias, P., Pawlak, et al  
EXCERPTA MEDICA INC-ELSEVIER SCIENCE INC.2012: 643-48
- **Simulation and skills training in mitral valve surgery** *36th Annual Meeting of the Western-Thoracic-Surgical-Association*  
Joyce, D. L., Dhillon, T. S., Caffarelli, A. D., Joyce, D. D., Tsirigotis, D. N., Burdon, T. A., Fann, J. I.  
MOSBY-ELSEVIER.2011: 107-12
- **Heparin-induced thrombosis without thrombocytopenia** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*  
Tibayan, F. A., Leung, L. L., Burdon, T. A., Fann, J. I.  
2010; 139 (2): E6-E7
- **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
- **Congenital Coronary Artery Anomalies Presenting in Late Adulthood with Concurrent Acquired Heart Disease: Report of Two Cases** *JOURNAL OF CARDIAC SURGERY*  
Timek, T. A., Kimm, S., Burdon, T. A., Fann, J. I.  
2008; 23 (6): 773-776
- **Right atrial mass after primary repair of an atrial septal defect: Thrombus masquerading as a myxoma** *ANNALS OF THORACIC SURGERY*  
Sheikh, A. Y., Schrepfer, S., Stein, W., West, J., Lombard, J., Burdon, T., Pinsker, B., Pelletier, M. P.  
2007; 84 (5): 1742-1744
- **The use of endobronchial valve device to eliminate air leak** *RESPIRATORY MEDICINE*  
Fann, J. I., Berry, G. J., Burdon, T. A.  
2006; 100 (8): 1402-1406
- **Chronic mitral valve rejection requiring replacement in a nine-year-old allograft** *ANNALS OF THORACIC SURGERY*  
Ihnken, K., Fann, J. I., Burdon, T. A., Johnson, F. L., Kosek, J. C., Shumway, N. E.  
2005; 80 (5): 1909-1911
- **Cardiac allograft aortic dissection: Successful repair using a composite valve graft and modified-cabrol coronary reconstruction** *JOURNAL OF CARDIAC SURGERY*  
Caffarelli, A. D., Fann, J. I., Salerno, C. T., Johnson, F., Jenkins, D. D., O'Bannon, L., Burdon, T. A.  
2005; 20 (5): 450-452
- **Beating heart catheter-based edge-to-edge mitral valve procedure in a porcine model - Efficacy and healing response** *CIRCULATION*  
Fann, J. I., St Goar, F. G., Komtebedde, J., Oz, M. C., Block, P. C., Foster, E., Butany, J., Feldman, T., Burdon, T. A.  
2004; 110 (8): 988-993
- **Repair of Superior Vena Caval Perforation during Pacemaker Placement with Video-Assisted Limited Thoracotomy.** *heart surgery forum*  
Fann, J. I., Atwood, J. E., Burdon, T. A.  
2004; 7 (1): 1-3
- **Repair of superior vena caval perforation during pacemaker placement with video-assisted limited thoracotomy** *HEART SURGERY FORUM*  
Fann, J. I., Atwood, J. E., Burdon, T. A.  
2004; 7 (1): E1-E3
- **Treatment of abdominal aortic anastomotic pseudoaneurysm with percutaneous coil embolization** *JOURNAL OF VASCULAR SURGERY*  
Fann, J. I., Samuels, S., Slonim, S., Burdon, T. A., Dalman, R. L.  
2002; 35 (4): 811-814
- **Acquired left ventricular-right atrial communication - Gerbode-type defect** *ECHOCARDIOGRAPHY-A JOURNAL OF CARDIOVASCULAR ULTRASOUND AND ALLIED TECHNIQUES*  
Wasserman, S. M., Fann, J. I., Atwood, J. E., Burdon, T. A., Fadel, B. M.  
2002; 19 (1): 67-72

- **Influence of three-dimensional vision on surgical telemanipulator performance** *SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES*  
Falk, V., Mintz, D., Grunenfelder, J., Farm, J. I., Burdon, T. A.  
2001; 15 (11): 1282-1288
- **Are the indications for tissue valves different in 2001 and how do we communicate these changes to our cardiology colleagues?** *CURRENT OPINION IN CARDIOLOGY*  
Fann, J. I., Burdon, T. A.  
2001; 16 (2): 126-135
- **Endoscopic computer-enhanced beating heart coronary artery bypass grafting** *ANNALS OF THORACIC SURGERY*  
Falk, V., Fann, J. I., Grunenfelder, J., Daunt, D., Burdon, T. A.  
2000; 70 (6): 2029-2033
- **Endoscopic Doppler for detecting vessels in closed chest bypass grafting** *HEART SURGERY FORUM*  
Falk, V., Fann, J. I., Grunenfelder, J., Burdon, T. A.  
2000; 3 (4): 331-333
- **First report of the Port Access International Registry** *34th Annual Meeting of the Society-of-Thoracic-Surgeons*  
Galloway, A. C., Shemin, R. J., Glower, D. D., Boyer, J. H., Groh, M. A., Kuntz, R. E., Burdon, T. A., Ribakove, G. H., Reitz, B. A., Colvin, S. B.  
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- **Port-access cardiac surgery: a system analysis.** *Perfusion*  
Peters, W. S., Fann, J. I., Burdon, T. A., Pompili, M. F.  
1998; 13 (4): 253-258
- **Port-access cardiac surgery: a system analysis** *PERFUSION-UK*  
Peters, W. S., Fann, J. I., Burdon, T. A., Pompili, M. F.  
1998; 13 (4): 253-258
- **Minimally invasive mitral valve surgery.** *Seminars in thoracic and cardiovascular surgery*  
Fann, J. I., Pompili, M. F., Burdon, T. A., Stevens, J. H., St Goar, F. G., Reitz, B. A.  
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- **Minimally invasive coronary artery bypass grafting** *CURRENT OPINION IN CARDIOLOGY*  
Fann, J. I., Stevens, J. H., Pompili, M. F., Burdon, T. A., Reitz, B. A.  
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- **Monitoring considerations for port-access cardiac surgery** *CIRCULATION*  
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- **Closed-chest cardiopulmonary bypass and cardioplegia: Basis for less invasive cardiac surgery** *ANNALS OF THORACIC SURGERY*  
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1997; 63 (6): 1748-1754
- **Port-access cardiac operations with cardioplegic arrest** *2nd Utrecht Minimally Invasive Coronary Artery Bypass Grafting Workshop*  
Fann, J. I., Pompili, M. F., Stevens, J. H., Siegel, L. C., Goar, F. G., Burdon, T. A., Reitz, B. A.  
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- **Port-access cardiac surgery with cardiopulmonary bypass and cardioplegic arrest.** *Surgical technology international*  
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- **Port-access bilateral internal mammary artery grafting for left main coronary artery disease: Canine feasibility study** *76th Annual Meeting of the American-Association-for-Thoracic-Surgery*  
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- **Port-access mitral valve replacement in dogs** *76th Annual Meeting of the American-Association-for-Thoracic-Surgery*  
Pompili, M. F., Stevens, J. H., Burdon, T. A., Siegel, L. C., Peters, W. S., Ribakove, G. H., Reitz, B. A.

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- **Port-access coronary artery bypass with cardioplegic arrest: Acute and chronic canine studies** *32nd Annual Meeting of the Society-of-Thoracic-Surgeons*  
Stevens, J. H., Burdon, T. A., Siegel, L. C., Peters, W. S., Pompili, M. F., STGOAR, F. G., Berry, G. J., Ribakove, G. H., Vierra, M. A., Mitchell, R. S., Toomasian, J. M., Reitz, B. A.  
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- **Anesthetic considerations for port-access cardiac surgery**  
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1996; 111 (3): 567-573
- **CLOSED-CHEST CORONARY-ARTERY BYPASS WITH CARDIOPLEGIC ARREST IN THE DOG**  
Stevens, J. H., Siegel, L. C., Mitchell, R. S., Burdon, T. A., Ribakove, G. H., Smith, J. A., STGOAR, F. G., Peters, W. S., Vierra, M. A., Pompili, M. F., Reitz, B. A.  
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- **DURABILITY OF PORCINE VALVES AT 15 YEARS IN A REPRESENTATIVE NORTH-AMERICAN PATIENT POPULATION** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*  
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