

Stanford



Albert Cheung

Professor of Anesthesiology, Perioperative and Pain Medicine (Cardiac) at the Stanford University Medical Center

CLINICAL OFFICES

- **Anesthesia**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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Bio

CLINICAL FOCUS

- Anesthesiology
- Cardiothoracic Anesthesiology
- Cardiovascular Surgical Critical Care Medicine

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Anesthesiology, Perioperative and Pain Medicine

ADMINISTRATIVE APPOINTMENTS

- Professor, Anesthesiology, Perioperative, and Pain Medicine, Stanford University, School of Medicine, (2014- present)
- Program Director, Adult Cardiothoracic Anesthesiology Fellowship, Stanford University, School of Medicine, (2014- present)

HONORS AND AWARDS

- John Morgan Society, University of Pennsylvania (2000-present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Heart Association (2016 - present)
- Member, American Society of Anesthesiologists (2016 - present)
- Member, Society of Cardiovascular Anesthesiologists (2016 - present)
- President-Elect, Association of Cardiac Anesthesiologists (2016 - present)

PROFESSIONAL EDUCATION

- Medical Education: UC San Diego Office of the Registrar (1985) CA
- Board Certification: Perioperative Transesophageal Echocardiography, American Board of Anesthesiology (2006)
- Residency: Massachusetts General Hospital Anesthesiology Residency MA

- Professor Emeritus, University of Pennsylvania, Department of Anesthesiology and Critical Care (2014)
- Fellowship, Cardiac Anesthesia, Massachusetts General Hospital, Boston, MA (1990)
- Fellowship: Massachusetts General Hospital MA
- Fellowship, Department of Anesthesia, Massachusetts General Hospital, Boston, MA (1990)
- Residency, Department of Anesthesia, Massachusetts General Hospital, Boston, MA (1989)
- Internship, Baystate Medical Center, Springfield, MA (1986)
- Internship: Baystate Medical Center
- Board Certification: Anesthesiology, American Board of Anesthesiology (1991)
- M.D., University of California, San Diego, La Jolla, California (1985)
- B.A., John Hopkins University, Baltimore Maryland (1981)

LINKS

- Adult Cardiothoracic Anesthesiology Stanford: <http://med.stanford.edu/cardiacaes/education/fellowship.html>
- ACTA Fellowship SCA Website: <http://www.scahq.org/Default.aspx?TabID=458>

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cardiac Anesthesia (Fellowship Program)
- Critical Care Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Exploring an optimum intra/postoperative management strategy for acute hypertension in the cardiac surgery patient.** *Journal of cardiac surgery*
Cheung, A. T.
; 21 Suppl 1: S8–S14
- **Enhanced Recovery After Cardiac Surgery (ERAS Cardiac) Recommendations: An Important First Step-But There Is Much Work to Be Done.** *Journal of cardiothoracic and vascular anesthesia*
Gregory, A. J., Grant, M. C., Manning, M. W., Cheung, A. T., Ender, J., Sander, M., Zarbock, A., Stoppe, C., Meineri, M., Grocott, H. P., Ghadimi, K., Gutsche, J. T., Patel, et al
2019
- **The "Ice Age" in Cardiac Surgery: Evolution of the "Siberian" Method of Brain Protection During Deep Hypothermic Perfusionless Circulatory Arrest.** *Journal of cardiothoracic and vascular anesthesia*
Guvakov, D., Bezinover, D., Lomivorotov, V. V., Postnov, V. G., Weiss, S. J., Cheung, A. T., Swain, J., Lomivorotov, V. N.
2019
- **The Penn Classification Predicts Hospital Mortality in Acute Stanford Type A and Type B Aortic Dissections.** *Journal of cardiothoracic and vascular anesthesia*
Tien, M., Ku, A., Martinez-Acero, N., Zvara, J., Sun, E. C., Cheung, A. T.
2019
- **Inhaled Nitric Oxide (iNO) and Inhaled Epoprostenol (iPGI(2)) Use in Cardiothoracic Surgical Patients: Is there Sufficient Evidence for Evidence-Based Recommendations?** *JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA*
Rao, V., Ghadimi, K., Keeyapaj, W., Parsons, C. A., Cheung, A. T.
2018; 32 (3): 1452–57
- **Preventing Brain Injury After Cardiopulmonary Bypass Will Require More Than Just Dialing Up the Pressure** *CIRCULATION*
Cheung, A. T., Messe, S. R.
2018; 137 (17): 1781–83

- **Spatiotemporal Segmentation and Modeling of the Mitral Valve in Real-Time 3D Echocardiographic Images.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Pouch, A. M., Aly, A. H., Lai, E. K., Yushkevich, N., Stoffers, R. H., Gorman, J. H., Cheung, A. T., Gorman, J. H., Gorman, R. C., Yushkevich, P. A.
2017; 10433: 746–54
- **Assessment of Left Ventricular Dimensions by Transoesophageal Echocardiography in Patients During Coronary Artery Bypass Surgery.** *Turkish journal of anaesthesiology and reanimation*
Bolliger, D., Poltera, C., Cheung, A. T., Couture, P., Michaux, I., Poelaert, J., Preisman, S., Skarvan, K., Buse, G. L., Seeberger, M. D.
2017; 45 (6): 367–73
- **The value of preoperative 3-dimensional over 2-dimensional valve analysis in predicting recurrent ischemic mitral regurgitation after mitral annuloplasty.** *journal of thoracic and cardiovascular surgery*
Wijdh-den Hamer, I. J., Bouma, W., Lai, E. K., Levack, M. M., Shang, E. K., Pouch, A. M., Eperjesi, T. J., Plappert, T. J., Yushkevich, P. A., Hung, J., Mariani, M. A., Khabbaz, K. R., Gleason, et al
2016; 152 (3): 847-859
- **Modeling the Myxomatous Mitral Valve With Three-Dimensional Echocardiography.** *Annals of thoracic surgery*
Pouch, A. M., Jackson, B. M., Lai, E., Takebe, M., Tian, S., Cheung, A. T., Woo, Y. J., Patel, P. A., Wang, H., Yushkevich, P. A., Gorman, R. C., Gorman, J. H.
2016; 102 (3): 703-710
- **Protocol for prevention of spinal cord ischemia after thoracoabdominal aortic surgery.** *Vascular*
Hobbs, R. D., Ullery, B. W., Mentzer, A. R., Cheung, A. T.
2016; 24 (4): 430-434
- **Sodium bicarbonate use and the risk of hypernatremia in thoracic aortic surgical patients with metabolic acidosis following deep hypothermic circulatory arrest.** *Annals of cardiac anaesthesia*
Ghadimi, K., Gutsche, J. T., Ramakrishna, H., Setegne, S. L., Jackson, K. R., Augoustides, J. G., Ochroch, E. A., Weiss, S. J., Bavaria, J. E., Cheung, A. T.
2016; 19 (3): 454-462
- **Preoperative Three-Dimensional Valve Analysis Predicts Recurrent Ischemic Mitral Regurgitation After Mitral Annuloplasty** *ANNALS OF THORACIC SURGERY*
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2016; 101 (2): 567-575
- **Preoperative Three-Dimensional Valve Analysis Predicts Recurrent Ischemic Mitral Regurgitation After Mitral Annuloplasty.** *The Annals of thoracic surgery*
Bouma, W., Lai, E. K., Levack, M. M., Shang, E. K., Pouch, A. M., Eperjesi, T. J., Plappert, T. J., Yushkevich, P. A., Mariani, M. A., Khabbaz, K. R., Gleason, T. G., Mahmood, F., Acker, et al
2016; 101 (2): 567–75; discussion 575
- **Medially constrained deformable modeling for segmentation of branching medial structures: Application to aortic valve segmentation and morphometry** *MEDICAL IMAGE ANALYSIS*
Pouch, A. M., Tian, S., Takebe, M., Yuan, J., Gorman, R., Cheung, A. T., Wang, H., Jackson, B. M., Gorman, J. H., Gorman, R. C., Yushkevich, P. A.
2015; 26 (1): 217-231
- **Severity and Duration of Metabolic Acidosis After Deep Hypothermic Circulatory Arrest for Thoracic Aortic Surgery** *JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA*
Ghadimi, K., Gutsche, J. T., Setegne, S. L., Jackson, K. R., Augoustides, J. G., Ochroch, E. A., Bavaria, J. E., Cheung, A. T.
2015; 29 (6): 1432-1440
- **Pro: Patients at Risk for Spinal Cord Ischemia After Thoracic Endovascular Aortic Repairs Should Receive Prophylactic Cerebrospinal Fluid Drainage.** *Journal of cardiothoracic and vascular anesthesia*
Arora, H., Ullery, B. W., Kumar, P. A., Cheung, A. T.
2015; 29 (5): 1376-1380
- **Reversible spinal cord ischemia as a complication of acute aortic intramural hematoma** *VASCULAR*
Ullery, B. W., Hobbs, R. D., Cheung, A. T.
2015; 23 (4): 427-431
- **Segmentation of the Aortic Valve Apparatus in 3D Echocardiographic Images: Deformable Modeling of a Branching Medial Structure**

Pouch, A. M., Tian, S., Takabe, M., Wang, H., Yuan, J., Cheung, A. T., Jackson, B. M., Gorman, J. H., Gorman, R. C., Yushkevich, P. A., Camara, O., Mansi, T., Pop, et al
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- **Medially constrained deformable modeling for segmentation of branching medial structures: Application to aortic valve segmentation and morphometry.** *Medical image analysis*
Pouch, A. M., Tian, S., Takebe, M., Yuan, J., Gorman, R., Cheung, A. T., Wang, H., Jackson, B. M., Gorman, J. H., Gorman, R. C., Yushkevich, P. A.
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- **Pseudo-tamponade during transvenous lead extraction.** *Heart rhythm*
Sadek, M. M., Epstein, A. E., Cheung, A. T., Schaller, R. D.
2015; 12 (4): 849–50
- **Regional Annular Geometry in Patients With Mitral Regurgitation: Implications for Annuloplasty Ring Selection** *ANNALS OF THORACIC SURGERY*
Jassar, A. S., Vergnat, M., Jackson, B. M., McGarvey, J. R., Cheung, A. T., Ferrari, G., Woo, Y. J., Acker, M. A., Gorman, R. C., Gorman, J. H.
2014; 97 (1): 64-70
- **Feasibility of in vivo human aortic valve modeling using real-time three-dimensional echocardiography.** *The Annals of thoracic surgery*
Jassar, A. S., Levack, M. M., Solorzano, R. D., Pouch, A. M., Ferrari, G., Cheung, A. T., Ferrari, V. A., Gorman, J. H., Gorman, R. C., Jackson, B. M.
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- **Invited commentary.** *The Annals of thoracic surgery*
Cheung, A. T., Kofke, W. A.
2014; 97 (4): 1225–26
- **The rationale and development of an adult cardiac anesthesia module to supplement the society of thoracic surgeons national database: using data to drive quality.** *Anesthesia and analgesia*
Aronson, S., Mathew, J. P., Cheung, A. T., Shore-Lesserson, L., Troianos, C. A., Reeves, S.
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- **Invited commentary.** *The Annals of thoracic surgery*
Gutsche, J. T., Cheung, A. T.
2014; 97 (6): 1944–45
- **A Pilot Study of Darbepoetin Alfa for Prophylactic Neuroprotection in Aortic Surgery** *NEUROCRITICAL CARE*
Messe, S. R., McGarvey, M. L., Bavaria, J. E., Pochettino, A., Szeto, W. Y., Cheung, A. T., Leitner, E., Miller, S. W., Kasner, S. E.
2013; 18 (1): 75-80
- **Percutaneous closure of an aortic pseudoaneurysm due to saphenous vein graft dehiscence with an Amplatzer vascular plug.** *JACC. Cardiovascular interventions*
Shreenivas, S. S., Lilly, S., Desai, N. D., Farooki, A., Cheung, A. T., Acker, M. A., Herrmann, H. C., Anwaruddin, S.
2013; 6 (10): 1103–4
- **The effect of surgical and transcatheter aortic valve replacement on mitral annular anatomy.** *The Annals of thoracic surgery*
Vergnat, M., Levack, M. M., Jackson, B. M., Bavaria, J. E., Herrmann, H. C., Cheung, A. T., Weiss, S. J., Gorman, J. H., Gorman, R. C.
2013; 95 (2): 614–19
- **No increased risk of spinal cord ischemia in delayed AAA repair following thoracic aortic surgery.** *Vascular and endovascular surgery*
Ullery, B. W., Wang, G. J., Woo, E. Y., Cheung, A. T., McGarvey, M. L., Carpenter, J. P., Fairman, R. M., Jackson, B. M.
2013; 47 (2): 85–91
- **Invited commentary.** *The Annals of thoracic surgery*
Ridley, C. H., Adler, J. V., Cheung, A. T.
2013; 96 (3): 1061
- **Vascular distribution of stroke and its relationship to perioperative mortality and neurologic outcome after thoracic endovascular aortic repair** *JOURNAL OF VASCULAR SURGERY*
Ullery, B. W., McGarvey, M., Cheung, A. T., Fairman, R. M., Jackson, B. M., Woo, E. Y., Desai, N. D., Wang, G. J.
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- **Annuloplasty ring dehiscence in ischemic mitral regurgitation.** *The Annals of thoracic surgery*

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- Levack, M. M., Vergnat, M., Cheung, A. T., Acker, M. A., Gorman, R. C., Gorman, J. H.
2012; 94 (6): 2132
- **Invited commentary.** *The Annals of thoracic surgery*
Gutsche, J. T., Cheung, A. T.
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 - **Neurological complications of thoracic endovascular aortic repair.** *Seminars in cardiothoracic and vascular anesthesia*
Ullery, B. W., Wang, G. J., Low, D., Cheung, A. T.
2011; 15 (4): 123-140
 - **Risk factors, outcomes, and clinical manifestations of spinal cord ischemia following thoracic endovascular aortic repair** *39th Annual Symposium of the Society-for-Clinical-Vascular-Surgery*
Ullery, B. W., Cheung, A. T., Fairman, R. M., Jackson, B. M., Woo, E. Y., Bavaria, J., Pochettino, A., Wang, G. J.
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 - **Saddle-shape annuloplasty increases mitral leaflet coaptation after repair for flail posterior leaflet.** *Annals of thoracic surgery*
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2011; 92 (3): 797-803
 - **Reversal of Delayed-Onset Paraparesis After Revision Thoracic Endovascular Aortic Repair For Ruptured Thoracic Aortic Aneurysm** *ANNALS OF VASCULAR SURGERY*
Ullery, B. W., Cheung, A. T., McGarvey, M. L., Jackson, B. M., Wang, G. J.
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 - **Classification of acute type a dissection: focus on clinical presentation and extent** *EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY*
Augoustides, J. G., Szeto, W. Y., Desai, N. D., Pochettino, A., Cheung, A. T., Savino, J. S., Bavaria, J. E.
2011; 39 (4): 519-522
 - **Ischemic Mitral Regurgitation: A Quantitative Three-Dimensional Echocardiographic Analysis** *ANNALS OF THORACIC SURGERY*
Vergnat, M., Jassar, A. S., Jackson, B. M., Ryan, L. P., Eperjesi, T. J., Pouch, A. M., Weiss, S. J., Cheung, A. T., Acker, M. A., Gorman, J. H., Gorman, R. C.
2011; 91 (1): 157-164
 - **Quantitative mitral valve modeling using real-time three-dimensional echocardiography: technique and repeatability.** *The Annals of thoracic surgery*
Jassar, A. S., Brinster, C. J., Vergnat, M., Robb, J. D., Eperjesi, T. J., Pouch, A. M., Cheung, A. T., Weiss, S. J., Acker, M. A., Gorman, J. H., Gorman, R. C., Jackson, B. M.
2011; 91 (1): 165-71
 - **Invited commentary.** *The Annals of thoracic surgery*
Falk, S. A., Cheung, A. T.
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 - **Transapical deployment of endovascular thoracic aortic stent graft for an ascending aortic pseudoaneurysm.** *The Annals of thoracic surgery*
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2010; 89 (2): 616-18
 - **Spinal cord protection and thoracic aortic surgery.** *Current opinion in anaesthesiology*
Sinha, A. C., Cheung, A. T.
2010; 23 (1): 95-102
 - **Pro: ultrasound should be the standard of care for central catheter insertion.** *Journal of cardiothoracic and vascular anesthesia*
Augoustides, J. G., Cheung, A. T.
2009; 23 (5): 720-24
 - **Invited commentary.** *The Annals of thoracic surgery*
Sinha, A. C., Cheung, A. T.
2009; 87 (5): 1474
 - **Neurologic Outcomes from High Risk Descending Thoracic and Thoracoabdominal Aortic Operations in the Era of Endovascular Repair** *NEUROCRITICAL CARE*
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- Messe, S. R., Bavaria, J. E., Mullen, M., Cheung, A. T., Davis, R., Augoustides, J. G., Gutsche, J., Woo, E. Y., Szeto, W. Y., Pochettino, A., Woo, Y. J., Kasner, S. E., McGarvey, et al
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- **The ECLIPSE trials: Comparative studies of clevidipine to nitroglycerin, sodium nitroprusside, and nicardipine for acute hypertension treatment in cardiac surgery patients** *ANESTHESIA AND ANALGESIA*
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 - **Endovascular stenting of thoracic aortic aneurysm.** *Anesthesiology clinics*
Gutsche, J. T., Szeto, W., Cheung, A. T.
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 - **Risk factors for perioperative stroke after thoracic endovascular aortic repair** *43rd Annual Meeting of the Society-of-Thoracic-Surgeons*
Gutsche, J. T., Cheung, A. T., McGarvey, M. L., Moser, W. G., Szeto, W., Carpenter, J. P., Fairman, R. M., Pochettino, A., Bavaria, J. E.
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 - **Cardiopulmonary bypass, hemolysis, and nitroprusside-induced cyanide production** *ANESTHESIA AND ANALGESIA*
Cheung, A. T., Cruz-Shiavone, G. E., Meng, Q. C., Pochettino, A., Augoustides, J. A., Bavaria, J. E., Ochroch, E. A.
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 - **Images in cardiovascular medicine. Rib perforation from a right ventricular pacemaker lead.** *Circulation*
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2007; 115 (14): e391-2
 - **Management of neurologic complications of thoracic aortic surgery.** *Journal of clinical neurophysiology : official publication of the American Electroencephalographic Society*
McGarvey, M. L., Cheung, A. T., Szeto, W., Messe, S. R.
2007; 24 (4): 336-43
 - **Echocardiographic evidence of the Brockenbrough-Braunwald-Morrow sign after mitral valve repair.** *Anesthesia and analgesia*
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2007; 104 (3): 502-3
 - **The treatment of spinal cord ischemia following thoracic endovascular aortic repair.** *Neurocritical care*
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2006; 40 (5): 367-373
 - **Perioperative outcome in adults undergoing elective deep hypothermic circulatory arrest with retrograde cerebral perfusion in proximal aortic arch repair: Evaluation of protocol-based care** *JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA*
Appoo, J. J., Augoustides, J. G., Pochettino, A., Savino, J. S., McGarvey, M. L., Cowie, D. C., Gambone, A. J., Harris, H., Cheung, A. T., Bavaria, J. E.
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 - **Clinical predictors for prolonged intensive care unit stay in adults undergoing thoracic aortic surgery requiring deep hypothermic circulatory arrest.** *Journal of cardiothoracic and vascular anesthesia*
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2006; 20 (1): 8-13
 - **Strategies to manage paraplegia risk after endovascular stent repair of descending thoracic aortic aneurysms** *41st Annual Meeting of the Society-of-Thoracic-Surgeons*
Cheung, A. T., Pochettino, A., McGarvey, M. L., Appoo, J. J., Fairman, R. M., Carpenter, J. P., Moser, W. G., Woo, E. Y., Bavaria, J. E.
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Augoustides, J. G., Weiss, S. J., Ochroch, A. E., Weiner, J., Mancini, J., Savino, J. S., Cheung, A. T.
2005; 19 (2): 146–49
- **Diagnosis of patent foramen ovale with multiplane transesophageal echocardiography in adult cardiac surgical patients.** *Journal of cardiothoracic and vascular anesthesia*
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- **The effect of apolipoprotein E genotype on neuron specific enolase and S-100beta levels after cardiac surgery.** *Anesthesia and analgesia*
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- **Utility of the neurologic intensive care evaluation (NICE) in detecting neurologic deficit after cardiac operations--a pilot study.** *Medical science monitor*
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- **Acute circulatory actions of intravenous amiodarone loading in cardiac surgical patients.** *The Annals of thoracic surgery*
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- **Perioperative changes in cerebral blood flow after cardiac surgery: influence of anemia and aging.** *The Annals of thoracic surgery*
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- **Interventions for reversing delayed-onset postoperative paraplegia after thoracic aortic reconstruction** *38th Annual Meeting of the Society-of-Thoracic-Surgeons*
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- **Life-threatening hyperkalemia: a complication of spironolactone for heart failure in a patient with renal insufficiency.** *Anesthesia and analgesia*
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- **Successful treatment of delayed onset paraplegia after suprarenal abdominal aortic aneurysm repair.** *Anesthesiology*
Weiss, S. J., Hogan, M. S., McGarvey, M. L., Carpenter, J. P., Cheung, A. T.
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- **Reliability of nurses' neurological assessments in the cardiothoracic surgical intensive care unit.** *American journal of critical care*
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2001; 10 (5): 298-305
- **Deep hypothermic circulatory arrest: I. Effects of cooling on electroencephalogram and evoked potentials** *36th Annual Meeting of the Society-of-Thoracic-Surgeons*
Stecker, M. M., Cheung, A. T., Pochettino, A., Kent, G. P., Patterson, T., Weiss, S. J., Bavaria, J. E.
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- **Deep hypothermic circulatory arrest: II. Changes in electroencephalogram and evoked potentials during rewarming** *36th Annual Meeting of the Society-of-Thoracic-Surgeons*
Stecker, M. M., Cheung, A. T., Pochettino, A., Kent, G. P., Patterson, T., Weiss, S. J., Bavaria, J. E.
ELSEVIER SCIENCE INC.2001: 22–28
- **Postoperative neurologic assessment and management of the cardiac surgical patient.** *Seminars in thoracic and cardiovascular surgery*
Floyd, T. F., Cheung, A. T., Stecker, M. M.
2000; 12 (4): 337-348
- **Nicardipine intravenous bolus dosing for acutely decreasing arterial blood pressure during general anesthesia for cardiac operations: Pharmacokinetics, pharmacodynamics, and associated effects on left ventricular function** *Annual Meeting of the American-Society-of-Anesthesiologists*
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PRESENTATIONS

- Prevention and Treatment of Spinal Cord Ischemia in Thoracic Aortic Surgical Patients (September 2014)
- Aortic Valve Repair; Ischemic Mitral Regurgitation; TEE Challenging Case Presentation (September 2014)
- Thoracic Aortic Surgery (September 2014)

- Percutaneous Aortic Valve Replacement Workshop (March 2014)
- Ischemic Mitral Regurgitation (October 2013)