

JOSHUA H. BURACK, M.D.
CURRICULUM VITAE

Mailing Address: State University of New York - Downstate
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Date of Birth: 10/29/56

Place of Birth: Bronx, New York

Education: College of the Arts and Sciences
Cornell University
Ithaca, New York
B.A. - Psychology, 1977

Albert Einstein College of Medicine
Yeshiva University
Bronx, New York
M.D., 1982

Residency: Resident in Surgery
Albert Einstein College of Medicine
Bronx, New York
1982-1987

Resident in Cardiothoracic Surgery
State University of New York - Downstate
Brooklyn, New York
1987-1989

Scholarships & Awards: Cornell Regents Scholarship, 1974-1978
Deans List-Cornell University, 1974-76
Alley-Sheridan Scholarship-Harvard University, JFK School
of Government, 2000

Medical Licensure: 1983, New York (155307)
DEA (AB2587042)

Certification:

1982, National Board of Medical Examiners
1988, 2000 American Board of Surgery
1991, 2000 American Board of Thoracic Surgery

Academic Appointments:

1990-1998
Assistant Professor of Surgery
Director, Cardiothoracic ICU
State University of New York - Downstate
Brooklyn, New York

1998 - Present
Clinical Associate Professor of Surgery
State University of New York - Downstate
Brooklyn, New York

1990-Present
Director, Thoracic Surgical Service
Kings County Hospital Center
Brooklyn, New York

1996-1999, 2001-2002
Interim Director
Division of Cardiothoracic surgery
State University of New York - Downstate
Brooklyn, New York

1998-Present
Associate Director, Cardiothoracic Residency Program
State University of New York - Downstate
Brooklyn, New York

Hospital Appointments:

1990-Present
Attending Surgeon, Division Cardiothoracic Surgery
Maimonides Medical Center
Brooklyn, New York

1990-1998
Consultant, Department of Surgery
Brooklyn Veterans Affairs Medical Center
Brooklyn, New York

1993-Present, Attending Surgeon
1997-1998, Director, Division of Thoracic Surgery
Brooklyn Hospital Center
Brooklyn, New York

Societies:

American College of Surgeons
Society of Thoracic Surgeons
American College of Cardiology
New York Society for Thoracic Surgery
General Thoracic Surgical Club of New York

New York Society for Thoracic Surgery

2002-2004	Membership committee
2004-2006	Nominating committee
2006	Vice-president
2007	President

Editorial Review:

Chest
Annals of Thoracic Surgery
Journal of Thoracic and Cardiovascular Surgery

Research Activities:

1. Foundation for Surgical Education and Investigation, SUNY Health Science Center at Brooklyn and Maimonides Research and Development Foundation. Heterotopic Cardiac Xenotransplantation in Primates. Co-investigator 1990-1993. Amount \$147,000.
2. Foundation for Surgical Education and Investigation, SUNY Health Science Center at Brooklyn and Alexion Inc. Primate Cardiac Xenotransplantation with Transgenic Swine Co-investigator 1994-1996. Amount \$66,000.
3. Foundation for Surgical Education and Investigation, SUNY Health Science Center at Brooklyn and Maimonides Research and Development Foundation. Central Vascular Graft Infection in the Porcine Model. Principal Investigator 1995-1996. Amount \$16,000.
4. American Medicine Development Company-New York Early Lung Cancer Action Project. Co-Investigator 2000. Amount \$500,000.

PUBLICATIONS:

1. **Burack JH**, Mandel MS, Bizer LS: Emergency Abdominal Operation in the Patient with Acquired Immunodeficiency Syndrome. *Archives of Surgery* 124:285-286, 1989.
2. **Burack JH**, Lamelas J, Sabado MF, Tranbaugh, RF, Cunningham JN: Mycotic Aneurysm of the Aortic Arch with Aortoesophageal Fistula. *J of Cardiac Surgery* 6:334-337, 1991.
3. Roslin MS, Zisbrod Z, **Burack JH**, Strashun A, Jacobowitz IJ, Brewer RJ, Kim Y, Norin AJ, Tranbaugh RF, Cunningham JN, Norin AS: 15 Day Survival in Pig to Baboon Heterotopic Cardiac Xenotransplantation. *Transplant Proc.* 24:572-573, 1992.
4. Brewer RJ, Del Rio MJ, Sadeghain M, Zisbrod Z, **Burack JH**, Cunningham JN, Norin AJ: Depletion of Preformed Antibody in Primates for Discordant Xenotransplantation by Continuous Donor Organ Plasma Perfusion. *Transplant Proc.* 25:385-386, 1993.
5. Altura BT, **Burack JH**, Cracco RQ, Galland L, Handwerker SM, Markell MS, Mauskop A, Memon ZS, Resnick LM, Zisbrod Z, Altura BM: Clinical Studies with the Nova ISE for Img2+. *Scan J Clin Lab Invest* 54:Suppl 217:53-67, 1994.
6. Brewer RJ, Roslin MS, Del Rio MJ, Alexandropoulos I, Sadeghian M, Zisbrod Z., **Burack JH**, Cunningham JN, Norin AJ: Prevention of Induced Antibody Response in Discordant Cardiac Xenotransplantation: Role of the Graft in TLI Treated Recipients. *Transplant Proc.* 26:1351-1352, 1994.
7. Brewer RJ, Del Rio MJ, Vaynblat M, Brown T, Alexandropoulos I, Zisbrod Z, **Burack JH**, Cunningham JN, Norin AJ: Absorption of Xenoantibodies for Cardiac Xenotransplantation in TLI Treated Baboons. *Transplant Proc.* 26:1355, 1994.
8. Kwan T, Saliccioli L, Elsakar A, Huber MS, **Burack JH**, Feit A: Communicating Coronary Artery Fistula into a Ventricular Septal Defect Due to a Penetrating Gunshot Wound. *Catheterization and Cardiovascular Diagnosis* 34:235-239, 1995.
9. Abramson DL, **Burack JH**: Small Cell Carcinoma of the Esophagus: Surgery and Neoadjuvant Chemotherapy. *Surgical Rounds* 18:257-261, 1995.
10. **Burack JH**, Uceda P, Cunningham JN: The Transthoracic Intraaortic Balloon Pump: A Simplified Technique of Insertion. *Annals of Thoracic Surgery* 62:299-301, 1996.
11. Rodino W, Panetta TF, **Burack JH**, Bryan DH, Williams RW: Combined Carotid Endarterectomy, Innominate Artery Reconstruction and Coronary Artery Bypass Grafting: Case Report. *Journal of Vascular Surgery* 24:1017-1021, 1996.
12. Kamholz SL, Brewer RJ, Grijalva G, **Burack JH**, Del Rio MJ, Vaynblat M, Lawson N, Squinto S, Fodor WI, Norin AJ: Laboratory Studies in Cross-Species Lung Transplantation. *World Journal of Surgery* 21:951-955, 1997.
13. Kamholz SL, Brewer RJ, Vaynblatt M, **Burack JH**, Grijalva G, Lawson N, Fodor W, Squinto S, Norin A: Amelioration of Hyperacute Rejection of Xenotransplanted Porcine

- Lung Grafts by Transgenic Pig Lungs Expressing Human CD59. *J Investigative Medicine* 45:203, 1997.
14. Norin AJ, Brewer RJ, Lui Q, DelRio MJ, **Burack JH**, Kamholz SL: Donor Antigen-Independent Effector Mechanisms of Graft Rejection: A Novel Cell Surface Target of IL-2-Activated Natural Killer Cells. *Transplant Proc* 31:787-788, 1999.
 15. **Burack JH**, Rowe NM, Serebransky L, Shah H, Homel PJ, Acinapura AJ, Cunningham JN: Socioeconomic and Cultural Risk Factors for Coronary Artery Bypass Surgery. *Surgical Forum* 50:687-690, 1999.
 16. Ibabao J, Kassapidis S, Demetis S, **Burack JH**, Gordon D, Choi K, Braverman AS: Bilateral Pleural Effusions in a Beta Thalassemia Intermedia Patient with Posterior Mediastinal Extramedullary Hematopoietic masses. *Hemoglobin* 23:249-253, 1999.
 17. **Burack JH**, Impellizzeri P, Homel PJ, Cunningham JN: Public Reporting of Surgical Mortality: A Survey of New York State Cardiothoracic Surgeons. *Annals of Thoracic Surgery*, 68:1195-202, 1999.
 18. Rowe NM, Impellizzeri P, Vaynblat M, Lawson NM, Kim YD, Sierra M, Homel PJ, Acinapura AJ, Cunningham JN, **Burack JH**: Studies in Thoracic Aortic Infections: The Development of a Porcine Model and a Comparison of Collagen-Impregnated Dacron Grafts and Cryopreserved Allografts. *Journal of Thoracic and Cardiovascular Surgery*, 118:857-865, 1999.
 19. Blokh I, Sobtil P, Zinn H, **Burack JH**, Ajiboye P, Solomon W, Gillett P, Braverman AS. A Rare Case of Osteomyelitis of the Sternum in an Adult with Sickle Cell Disease. *Hemoglobin*, 25:111-113, 2001.
 20. Blattman SB, Landis SL, Knight M, Panetta TF, Scalfani SJA, **Burack JH**. Combined Endovascular And Open Repair of a Penetrating Innominate Artery Injury. *Annals of Thoracic Surgery*, 74:237-9, 2002.
 21. Saborio D, Sadeghi A, **Burack JH**, Lowery RC, Brevetti G. Management of Intramural Hematoma of the Ascending Aorta and Aortic Arch: The Risks of Limited Surgery. *Texas Heart Institute Journal*, *Texas Heart Institute Journal*, 30:325-7, 2003.
 22. Kandil E, **Burack JH**, Babwy H, Schwartzman A, Zenilman M. Myocardial Stress During Septic Shock Produces Elevated Levels of Brain Naturetic Peptide. *Circulation*, 108:supp IV-397, 2003.
 23. Sadeghi A, Brevetti GR, Kim S, **Burack JH**, Genovesi MH, Distant DA, Kodavatiganti R, Lowery RC: Acute Massive Pulmonary Embolism: Role of the Cardiac Surgeon. *Texas Heart J* 32(3) 430-433, 2005.
 24. Hardin RE, Brevetti GR, Sanusi M, Bhaskaran D, **Burack JH**, Genovesi MH, Lowery RC, Rafii S, Bondi E. Treatment of Symptomatic Vascular Rings in the Elderly. *Texas Heart J* 32:411-5, 2005

25. Dhadwal AK, Vaynblat M, Balasubramanya S, Pagala M, Schuloff N, **Burack JH**, Cunningham JN. Circadian Rhythm Has No Effect on Mortality in Coronary Artery Bypass Surgery. *Chest* 128:274S, 2005.
26. **Burack JH**, Amulraj E, Brevetti GR, Lowery R, O'Neill P. Thoracoscopic Removal of a Knife Impaled in the Chest. *Journal of Thoracic and Cardiovascular Surgery* 130:1213-4, 2005.
27. Mousa A, Sanusi M, Lowery RC, Genovesi MH, **Burack JH**. Hand-assisted Thoracoscopic Repair of a Bochdalek Hernia in an Adult. *J Laparoendosc Adv Surg Techn.* 16:54-58, 2006.
28. Dhadwal AK, Vaynblat M, Balasubramanya S, Pagala M, Schuloff N, **Burack JH**, Cunningham JN. Circadian Rhythm Has No Effect on Mortality in Coronary Artery Bypass Surgery. *Journal of Cardiac Surgery* 22:26-31, 2007.
29. **Burack JH**, Kandil E, Sawas A, O'Neill P, Sclafani S, Lowery RC, Zenilman M. Triage and Outcome of Patients with Mediastinal Trauma. *Annals of Thoracic Surgery* 83:377-82, 2007.
30. Kandil E, **Burack J**, Sawas A, Bibawy H, Schwartzman A, Zenilman ME, Bluth MH . B-type Natriuretic Peptide: a biomarker for the diagnosis and risk stratification of septic shock patients. *Archives of Surgery* 143:242-245, 2008.

LETTERS TO THE EDITOR:

1. **Burack JH**, Rowe NM. Studies in Thoracic Aortic Infections: The Development of a Porcine Model and a Comparison of Collagen-Impregnated Dacron Grafts and Cryopreserved Allografts - Reply to the Editor. *Journal of Thoracic and Cardiovascular Surgery*, 120:195, 2000.
2. **Burack JH**. Resident Training in Off-Pump CABG. *Annals of Thoracic Surgery*, 71:398, 2001.
3. **Burack JH**. Use of Statewide Administrative Database in Assessing a Regional Trauma System. *Journal of the American College of Surgeons*, 199:666, 2004.
4. **Burack JH**. Extending video-assisted Thoracoscopic surgery for trauma: The Uniportal approach. Reply to the Editor. *Journal of Thoracic and Cardiovascular Surgery*, 131:1424-1425, 2006.
5. **Burack JH**. Drug Eluting Stents vs. Coronary Artery Bypass Grafting. *New England Journal of Medicine*, 358:2643, 2008.

BOOK CHAPTERS:

1. Vetter HO, **Burack JH**, Factor SM, Frater RWM: Replacement of the Mitral Valve Chordae Using the New Expanded PTFE Suture in the Sheep in Bodnar E, Magdi YH, (eds.) Biological and Prosthetic Valves; Proceedings of the Third International Symposium on Cardiac Bioprosthesis. York Publishers, New York, 1985.
2. Heurich AE, Quale JM, **Burack JH**: Pericardial Tuberculosis. In Garay S, Rom WN, (Eds.) Tuberculosis. Boston: Little, Brown 531-540, 1996.
3. **Burack JH**, Dresner LS: Thoracic Trauma: Pathophysiology and Initial Management. In Pearson FG, Cooper JD, Deslauriers J, Ginsberg RJ, Hiebert CA, Patterson GA, Urshel HC. Thoracic Surgery 2 Ed, WB Saunders, Philadelphia, 2002.
4. **Burack JH**: Thoracic Trauma: Pathophysiology and Initial Management. In Pearson FG, Patterson GA, Cooper JD, Deslauriers J, Lerut T, Rice T. Thoracic Surgery 3 Ed, Churchill Livingstone/Elsevier, Philadelphia, 2008.

ABSTRACTS:

1. **Burack JH**, Lamelas J, Sabado MF, Cunningham JN: Mycotic Aneurysm of the Aortic Arch with Aortoesophagotracheal Fistula. Society of Thoracic Surgeons, September, 1989.
2. Roslin MS, Zisbrod Z, Tranbaugh RF, **Burack JH**, Jacobowitz IJ, Brewer RJ, Cunningham JN, Norin AJ: 15 Day Survival in Pig to Baboon Heterotopic Cardiac Xenotransplantation. International Congress on Xenotransplantation, August 1991.
3. Brewer RJ, Del Rio MJ, Roslin MS, Zisbrod Z, **Burack JH**, Cunningham JN, Norin, AJ: An Animal Model for Selective Antibody Absorption in the Sensitized Patient. American Society of Transplant Physicians, May 1992.
4. **Burack JH**, Folliquet TA, Robertazzi RR, Feldman J, Acinapura AJ, Jacobowitz, IJ, Cunningham JN: Coronary Artery Bypass in Women Using the Internal Mammary Artery. New York Society for Thoracic Surgery, May 1993.
5. Efferen LS, Kaul P, Sternberg A, **Burack JH**: Pulmonary Function Testing for Cardiac Surgery Risk Assessment: Is There a Role? American Lung Association, May 1993.
6. Hong S, Efferen LS, Spielvogel D, **Burack JH**: Diagnostic Mediastinoscopy in HIV Positive Patients. American College of Chest Physicians, October 1994.
7. Sayed H, Efferen LS, Noori M, **Burack JH**, Chandra P: Primitive Neuroectodermal Tumor Presenting as a Pleural Effusion. American College of Chest Physicians, October 1994.

8. Spielvogel D, **Burack JH**, Faries PL, Hong S, Efferen LS, Santos GH: Mediastinal Lymph Node Biopsy in HIV Positive Patients. New York Society for Thoracic Surgery, November 1994.
9. **Burack JH**: Thoracic Trauma. New York Society for Thoracic Surgery, January 1995.
10. **Burack JH**, Uceda P, Sabado MF, Zisbrod Z, Jacobowitz IJ, Acinapura AJ, Cunningham JN: Atraumatic Insertion of the Transthoracic Intraaortic Balloon Pump in the Cardiac Surgical Patient. Society of Thoracic Surgeons, January 1995.
11. **Burack, JH**: Empyema. New York Society for Thoracic Surgery, January 1996.
12. **Burack JH**, Robertazzi MS, Cunningham JN: Intra-aortic Balloon Pump: Indications, Contraindications, and Technological Advances. New York Society for Thoracic Surgery, January 1998.
13. **Burack JH**, Uceda P, Cunningham JN: Transthoracic Intraaortic Balloon Pump Assistance: A New Atraumatic technique of Insertion that Allows Closed Chest Decannulation. 2nd International Congress on Coronary Artery Disease, October 1998.
14. **Burack JH**, Impellizzeri P, Homel P, Cunningham, JN: The Effect of Public Reporting of Surgical Mortality on the Practice of Cardiothoracic Surgery: A Survey of Surgeon's Attitudes in New York State. Society of Thoracic Surgery, January 1999.
15. **Burack JH**, Rowe NM, Shah H, Serebransky L, Homel P, Acinapura AJ, Cunningham JN: Socioeconomic and Cultural Risk Factors for Coronary Artery Bypass Surgery. Society of University Surgeons, February 1999.
16. Lawson NM, Rowe NM, **Burack JH**, Impellizzeri P, Kim YD, Homel P, Sierra M, Cunningham JN: Collagen Dacron Grafts Resist Infection as well as Cryopreserved Allografts in the Thoracic Aortic Position. Society of University Surgeons, February 1999.
17. Rowe NM, **Burack JH**, Lawson NM, Impellizzeri P, Kim YD, Sierra M, Homel P, Acinapura AJ, Cunningham JN: Collagen Impregnated Dacron Grafts Resist Infection as Well as Cryopreserved Allografts in the Thoracic Aortic Position. American Association of Thoracic Surgery, April, 1999.
18. Rowe NM, **Burack JH**, Serebransky L, Shah H, Homel PJ, Acinapura AJ, Cunningham JN: Socioeconomic and Cultural Risk Factors for Coronary Artery Bypass Surgery. International College of Surgeons 36th North American Federation Congress, June 1999.
19. **Burack JH**, Rowe NM, Lawson NM, Impellizzeri P, Kim YD, Sierra M, Homel P, Acinapura AJ, Cunningham JN: Collagen Impregnated Dacron Grafts Resist Infection as Well as Cryopreserved Allografts in the Thoracic Aortic Position. International College of Surgeons 36th North American Federation Congress, June 1999.
20. **Burack JH**, Rowe NM, Serebransky L, Shah H, Homel PJ, Acinapura AJ, Cunningham JN: Socioeconomic and Cultural Risk Factors for Coronary Artery Bypass Surgery. American College of Surgeons, October 1999.

21. Saborio D, Robertazzi R, Shumeyko A, **Burack JH**: Coronary Revascularization Combined with Mitral Valve Surgery in Patients with Pulmonary Hypertension. New York Society for Thoracic Surgery, November 2002.
22. Davis WJ, Shah PC, Vaynblat M, Chaviarelli M, **Burack JH**, Fazylov RF, Cunningham JN: Secondary Risk Factors in Cardiac Surgery. World Congress on Heart Disease, July 2003.
23. Kandil E, **Burack JH**, Babwy H, Schwartzman A, Zenilman M. Myocardial Stress During Septic Shock Produces Elevated Levels of Brain Natriuretic Peptide. American Heart Association, November 2003.
24. Dhadwal AK, Vaynblat M, Balasubramanya S, Pagala M, Schuloff N, **Burack JH**, Cunningham JN. Circadian Rhythm Has No Effect on Mortality in Coronary Artery Bypass Surgery. American College of Chest Physicians, November 2005.
25. Sawas A, **Burack JH**, Kandil E, O'Neill P, Sclafani S, Brevetti G, Lowery RC. Triage and Outcome of Patients with Transmediastinal Trauma. New York Society for Thoracic Surgery, November 2005.
26. **Burack JH**, Sawas A, Kandil E, O'Neill P, Sclafani S, Brevetti G, Zenilman M. Triage and Outcome of Patients with Transmediastinal Trauma. The Society of Thoracic Surgeons, January 2006.
27. Dhadwal AK, Vaynblat M, Balasubramanya S, Pagala M, Schuloff N, **Burack JH**, Cunningham JN. Circadian Rhythm Has No Effect on Mortality in Coronary Artery Bypass Surgery. New York Society for Thoracic Surgery, November 2006.
28. Hardin RE, Cires G, Lowery RC, Zenilman ME, Reilly JJ, Weedon J, **Burack JH**. The Volume Outcome-Relationship Affirmed: Hospital Volumes, CABG Risk and Outcomes over 10 years in New York State. Association of Academic Surgery, February 2008.

PRESENTATIONS:

1. Aortic Dissection. Triboro Grand Rounds, University Hospital, Brooklyn, NY, 2/20/88.
2. Tuberculosis of the Pericardium. Triboro Grand Rounds, University Hospital Brooklyn, NY, 9/17/88.
3. Mycotic Aneurysm of the Aortic Arch with Aortoesophagotracheal Fistula. Society of Thoracic Surgeons, Baltimore MD, 9/12/88.
4. Anterior Mediastinal Mass. Clinical Pathologic Conference, Brooklyn Hospital, Brooklyn, NY, 11/13/90.
5. Surgical Treatment of Lung Cancer. Triboro Grand Rounds, University Hospital, Brooklyn, NY, 2/15/92.

6. Coronary Artery Bypass in Women Using the Internal Mammary Artery. New York Society for Thoracic Surgery, New York, NY, 5/20/93.
7. Post-Operative Management of the Cardiac Surgical Patient. Critical Care Medicine Grand Rounds, University Hospital, Brooklyn, NY 1/5/94.
8. Atraumatic Insertion of the Transthoracic Intra-aortic Balloon Pump in the Cardiac Surgical Patient (poster). Society of thoracic Surgeons, Palm Springs, CA, 1/9/95.
9. Thoracic Trauma. New York Society for Thoracic Surgery – Post Graduate Review Course, New York, NY, 1/21/95.
10. Empyema. New York Society for Thoracic Surgery - Post Graduate Review Course New York, NY, 1/21/96.
11. Public Reporting of Cardiac Surgical Mortality in New York. Cardiology Grand Rounds, University Hospital, Brooklyn, NY, 12/5/96.
12. Thoracic Trauma. Triboro Grand Rounds, University Hospital, Brooklyn, NY, 12/12/96.
13. Recent Advances in Coronary Artery Surgery. Cardiology for the Primary Care Physician - Department of Family Practice. University Hospital, Brooklyn, NY, 1/22/97.
14. Thoracic Trauma. New York Society for Thoracic Surgery - Post Graduate Review Course, New York, NY, 1/25/97.
15. Recent Advances in Coronary Artery Surgery. Cardiology Grand Rounds, Brookdale Medical Center, Brooklyn, NY 2/13/97.
16. Empyema. New York Society for Thoracic Surgery - Post Graduate Review Course, New York, NY, 1/16/98.
17. Intra-Aortic Balloon Pump: Indications, Contraindications and Technological Advances. New York Society for Thoracic Surgery – Post Graduate Review Course, New York, NY, 1/17/98.
20. Transthoracic Intra-Aortic Balloon Pump Assistance: A New Atraumatic technique of insertion that allows closed chest Decannulation. 2nd International Congress on Coronary Artery Disease. Florence, Italy, 11/21/98.
21. The Effect of Public Reporting of Surgical Mortality on the Practice of Cardiothoracic Surgery: A Survey of Surgeon's Attitudes in New York State. The Society of Thoracic Surgeons. San Antonio, Texas, 1/26/99.
22. Thoracic Trauma. New York Society for Thoracic Surgery - Post Graduate Review Course, New York, NY, 9/25/99.
23. Socioeconomic and Cultural Risk Factors for Coronary Artery Bypass Surgery. American College of Surgeons- Surgical Forum, San Francisco, CA, 10/13/99.

24. Socioeconomic and Cultural Risk Factors for Coronary Artery Bypass Surgery. New York Society for Thoracic Surgery, 11/18/99.
25. Public Reporting of Cardiac Surgical Mortality in New York State. Healthcare Outcomes-The Phoenix Group, Scottsdale Arizona, 4/3/00.
26. A Request for an Executive Session on a Universal Medical Information System. John F. Kennedy School of Government, Harvard University, Boston, MA 11/19/00.
27. Public Reporting of Cardiac Surgical Mortality; What Europeans can expect. University of Siena, Siena, Italy 8/18/03.
28. Triage and Outcome of Penetrating Transmediastinal Trauma. The Society of Thoracic Surgeons, Chicago, Illinois 1/30/06.