

CURRICULUM VITAE

Raouf E. Nakhleh, M.D.

Work Address:

Mayo Clinic Jacksonville
Department of Pathology
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Current Position

Professor of Pathology
Consultant

Citizenship:

USA

Marital Status:

Married, 2 children

Education:

High School:

Lansing Eastern High School
Lansing, Michigan (graduated January 1977)

Undergraduate:

Michigan State University
East Lansing, Michigan (March 1977 - December 1980)
Bachelor of Science, Biochemistry 1980

Medical School:

Wayne State University
Detroit, Michigan (August 1981 - June 1985)
M.D. 1985

**Anatomic Pathology
Residency:**

Department of Laboratory Medicine and Pathology
University of Minnesota Medical School
Minneapolis, MN
July 1985 - June 1989

**Transplantation
Pathology Fellowship:**

Department of Laboratory Medicine and Pathology
University of Minnesota Medical School
Minneapolis, MN
July 1987 - June 1988

**Surgical Pathology
Fellowship:**

Department of Laboratory Medicine and Pathology
University of Minnesota Medical School
Minneapolis, MN
July 1988 - June 1989

Appointments:

Instructor	Division of Surgical Pathology Department of Laboratory Medicine and Pathology University of Minnesota Medical School Minneapolis, MN July 1989 – June 1990
Assistant Professor	Division of Surgical Pathology Department of Laboratory Medicine and Pathology University of Minnesota Medical School Minneapolis, MN July 1990 – June 1991
Senior Staff Pathologist	Department of Pathology Henry Ford Hospital Detroit, MI July 1991 – May 2002
Director of Autopsy Service	Department of Pathology Henry Ford Hospital Detroit, MI January 1994 – May 2002
Associate Professor of Pathology:	Case Western Reserve University Institute of Pathology Cleveland, OH April 1994 – May 2002
Associate Residency Program Director	Department of Pathology Henry Ford Hospital Detroit, MI July 1996 – June 2001
Senior Associate Consultant Pathologist	Department of Pathology St Luke's Hospital/Mayo Clinic Jacksonville Jacksonville, FL June 2002 – May 2005
Consultant Pathologist	Department of Pathology Mayo Clinic Florida Jacksonville, FL June 2005 – Present
Professor of Pathology	Mayo college of Medicine Mayo Clinic Florida Jacksonville, FL April 2003 – Present

**Director of Surgical
Pathology**

Department of Pathology
St Luke's Hospital/Mayo Clinic Jacksonville
Jacksonville, FL
June 2002 – December 2007

**Associate Editor
and
Section Editor**

Archives of Pathology and Laboratory Medicine
Administrative and Regulatory Affairs
Quality Assurance
February 2005 – Present

Deputy Editor-in-Chief

January 2012 – Present

Editorial Board

Clinical Liver Disease
February 2012 – 2017

Awards and Grants:

Young Investigator Award for Research in Clinical Pathology
Academy of Laboratory Physicians and Scientists, Chicago, IL, Spring
1986
Kenneth Ernst Award for Research in Anatomic Pathology
University of Minnesota, Minneapolis, MN, Fall 1988
Viking Children's Fund Grant, \$4,190.00
February 1988 - January 1989
Cecil Watson Award for Research in Clinical Medicine
University of Minnesota, Minneapolis, MN, Spring 1989
Minnesota Medical Foundation research grant, \$2000.00
February 1990 - January 1991
Citation of Merit for Excellence in a Scientific Exhibit
Radiological Society of North America, 77th annual meeting, December
1991
Honorary Fellow of the Faculty of Pathology
The Royal College of Physicians of Ireland, February 8, 2008.
CAP Lifetime Achievement Award
College of American Pathology October, 2013
CAP President's award
College of American Pathology September, 2016

Licensures and Certificates:

Medicine and Surgery License, #030162-8, Minnesota, July 1986 (inactive)
Physician License, ID #4301057605, Michigan, April 1991 (inactive)
Florida Medical License, ME84266, February 2002 (active)
Diplomat of the United States National Board of Medical Examiners, 1986
Diplomat of the American Board of Pathology in Anatomic Pathology, August 30, 1990

Society Memberships:

Alpha Omega Alpha Honor Medical Society
American Society of Clinical Pathologists

6/13/18

College of American Pathologists
Transplantation Society
United States and Canadian Academy of Pathology
European Society of the Study of Liver Disease
Florida Society of Pathologists
California Society of Pathologist

Hospital Committee Participation:

Patient Safety Oversight Committee
Mayo Clinic Florida
Jacksonville, FL
January 2006-December 2008

Chairman
Anatomic Pathology QI Committee
MCJ/St Luke's Hospital
Jacksonville, FL
July 2002-December 2007

Surgical Committee
MCJ/St Luke's Hospital
Jacksonville, FL
January 2004-December 2007

Liver Transplant Committee
Henry Ford Hospital
Detroit, MI
July 1991 – May 2002

Heart Transplant Committee
Henry Ford Hospital
Detroit, MI
January 1992 – May 2002

Pancreas Transplant Committee
Henry Ford Hospital
Detroit, MI
January 1992 - 1998

Anatomic Pathology Quality Assurance Committee
Department of Pathology
Henry Ford Hospital
Detroit, MI
January 1992 – May 2002

Laboratory Safety Committee
Department of Pathology
Henry Ford Hospital
Detroit, MI
January 1994 – May 2002

Ad hoc Morgue Issues Committee
Henry Ford Hospital
Detroit, MI
1994 – 1995

Residency Committee
Department of Pathology
Henry Ford Hospital
Detroit, MI
Member: February 1995 – May 2002
Chairman: July 1996 - June 2001

Graduate Medical Education Committee
Henry Ford Hospital
Detroit, MI
July 1996 – June 2001

National Committee Participation:

College of American Pathologists
Board of Governors
Member: Fall 2015 – Present

College of American Pathologists
Council on Scientific Affairs
Member: 2014-2015
Vice Chair: December 2015 – September 2017
Chair: October 2017 – Present

College of American Pathologists
Executive Committee
Member: Fall 2017 – Present

College of American Pathologists
Council on Accreditation
Member: Fall 2015 – Fall 2016

College of American Pathologists
Council on Government and Professional Affairs
Member: Fall 2016 – Fall 2017

College of American Pathologists
Finance Committee
Member: Fall 2015 – Present

College of American Pathologists
Audit Committee
Member: Fall 2015 – Present

6/13/18

College of American Pathologists
Investment Committee
Member: Fall 2017 – Present

American Board of Pathology
Laboratory Management Test Development and Advisory Committee
February 2011 – 2015

College of American Pathologists
Standards Committee
January 2011 – December 2012

College of American Pathologists
Center Committee for Pathology and Laboratory Medicine Quality
Member: February 2010 – 2014
Vice Chair: 2015
Chair: 2016 -- 2017

College of American Pathologists
Ad Hoc Committee for Center Plan Development
October 2008 – August 2009

College of American Pathologists
Quality Practices Committee
December 1993 – December 2001
January 2006 – December 2013
Vice Chair: 2007 – December 2009
Chair: January 2010 – December 2013

College of American Pathologists
Surgical Pathology Committee
January 2000 – December 2005

College of American Pathologists
Archives of Pathology and Laboratory Medicine Editorial Committee
January 2006 – 2009

College of American Pathologists
AMA Physician Consortium for Performance Improvement
Pathology Performance Measures Development Working Group
September 2006 – February 2008

College of American Pathologists
Cancer Protocol Panel, Gastrointestinal Tumors
Summer 2006 -- 2015

College of American Pathologist Inspections:

Inspector #: 183680

Universal Laboratory, Lansing, Michigan.
Surgical Pathology and Cytopathology, 1993.

Barns and Jewish Hospitals, St Louis, Missouri.
Surgical Pathology and Autopsy Pathology, 1995.

University of Missouri Hospital, Missouri
Surgical Pathology and Autopsy Pathology, 1997.

Columbia Presbyterian/St. Luke's Medical Center, Denver, Colorado
Surgical Pathology and Autopsy Pathology, June 1998.

Aurora Medical Center, Denver, Colorado
Surgical Pathology, June 1998.

Oakwood Hospital, Dearborn, Michigan
Surgical Pathology and Autopsy Pathology, 1998

University of Tennessee, Memphis, Tennessee
Surgical Pathology and Autopsy Pathology, 1999

Duke University Hospitals, Durham, North Carolina
Surgical Pathology and Autopsy Pathology, 2001

Shands @ Lake Shore Hospital, Lake City, FL
Team Leader, December 2006

Skin & Cancer Associates, Aventura, FL
Team Leader, April 2015

Six International inspections in Mumbai and New Delhi, India
Inspector and Team Leader, January 2016

Invited Lecture Presentations:

1. "Nodular regenerative hyperplasia". The Twin Cities Pathology Society, Minneapolis, MN, annual spring meeting 1987.
2. "Immunopathology of gastrointestinal graft versus host disease". Grand Rounds, The Department of Laboratory Medicine and Pathology. University of Minnesota, Minneapolis, MN, January 1988.
3. "Immunopathology of gastrointestinal graft versus graft host disease." The Twin Cities Pathology Society, Saint Paul, MN, annual spring meeting 1988.
4. "Pancreas transplant pathology". Grand Rounds, The Department of Laboratory Medicine and Pathology. University of Minnesota, Minneapolis, MN, March 28, 1990.
5. "Pathology of rejection and recurrent disease of pancreas transplants and the pathology of transplanted human duodenal tissue". Transplantation Conference, Department of Surgery, University of Minnesota, Minneapolis, MN, March 29, 1990.

6. "Diagnostic and prognostic aspects of pancreatic and duodenal biopsies in pancreas transplantation". Transplantation Conference, Department of Surgery, University of Minnesota, Minneapolis, MN, August 5, 1993.
7. "Recurrent hepatitis C in liver transplantation." The Department of Pathology, Mayo Clinic Foundation, Rochester, MN, August 11, 1999.
8. "Quality assurance in anatomic pathology" The Department of Pathology, Cedars-Sinai Hospital, Los Angeles, CA, October 6, 2000.
9. "Quality assurance and improvement in anatomic pathology, current status and future potential" The Department of Pathology, University of Vermont, Burlington, VT, May 31, 2001.
10. "Quality assurance and improvement in anatomic pathology" The Department of Pathology, Creighton University, Omaha, NE, December 10, 2001.
11. "A pathology perspective on quality improvement and medical errors." Medical Grand Rounds, Mayo Clinic Jacksonville, Jacksonville, FL, April 2, 2003
12. "Meeting the Quality Improvement Challenges of Today and Tomorrow; A Pathology Perspective." Twin Cities Pathology Society, Spring Meeting, Minneapolis, MN, June 5, 2003.
13. "Keys to successfully manage an anatomic pathology laboratory." University of Minnesota, Resident lecture, Minneapolis, MN, June 6, 2003.
14. "Practical aspects of quality improvement and error reduction" The Arizona Society of Pathologists 2003 Fall Conference, November 2, 2003.
15. "Strategies for error reduction" Association of Directors of Anatomic and Surgical Pathology, annual meeting February, 26, 2005.
16. "What is quality in surgical pathology" The 17th congress of the Arab division of the International Academy of Pathology, Amman, Jordan, November, 12, 2005.
17. "Angiomyolipoma of the liver" Liver evening session, Annual meeting of the United States and Canadian Academy of Pathology. Atlanta, GA, February, 16, 2006.
18. "Patient Safety and Error Reduction in the Surgical Pathology" Texas Society of Pathologists 86th annual meeting. January 25-28, 2007, Fort Worth, Texas.
19. "Error Prevention in Pathology" Royal College of Physicians of Ireland. November 28, 2007. Dublin, Ireland.
20. "Error Prevention in Clinical Pathology" Chemical Pathology Graduate Course of the Royal College of Physicians of Ireland. February 8, 2008. Dublin, Ireland.

21. "Quality in Pathology, Personal Experiences" 3rd Intercontinental Congress of Pathology, May 19, 2008, Barcelona, Spain.
22. "Measuring Laboratory and Individual Performance in Surgical Pathology". Yale Pathology Grand Rounds, December 4, 2008, New Haven, Connecticut.
23. "Core components of a comprehensive quality assurance program in anatomic pathology". College of American Pathologists' Companion Meeting at USCAP, March 7, 2009, Boston, MA.
24. "Quality, patient safety and error reduction in surgical pathology". University of Toronto, Resident's Research Day, April 22, 2009, Toronto, Canada.
25. "The US approach to quality assurance in surgical pathology". Canadian Association of Pathologists, Quality Summit, July 8, 2010. Montreal, Canada.
26. "Error reduction and prevention in surgical pathology". Canadian Association of Pathologists Annual meeting, July 9, 2010. Montreal, Canada.
27. "Pre and Post Analytic Quality in Surgical Pathology" Symposium on Quality in Surgical Pathology, November 15, 2010, San Bonifacio, Italy.
28. "The Effect of Second Pathologist Review on Diagnostic Accuracy" Symposium on Quality in Surgical Pathology, November 15, 2010, San Bonifacio, Italy.
29. "Effective Communication of Urgent or Significant Unexpected Diagnoses in Surgical Pathology and Cytopathology" Association of Directors of Anatomic and Surgical Pathology annual meeting, February 26, 2011, San Antonio, Texas.
30. "Error Reduction and Prevention in Surgical Pathology" Excellence in Quality Management program at King Fahad National Guard Hospital, February 2014, Riyadh, Saudi Arabia
31. "Disclosure/Communication of Laboratory Errors" Excellence in Quality Management program at King Fahad National Guard Hospital, February 2014, Riyadh, Saudi Arabia
32. "What's new in Anatomic Pathology Quality Assurance?" Department of Pathology Grand Rounds, Dalhousie University, Halifax, Nova Scotia, Canada. June, 14 2012.
33. "Error reduction and prevention in surgical pathology". Department of Pathology Grand Rounds, Dalhousie University, Halifax, Nova Scotia, Canada. June, 14 2012.
34. "Interpretive Diagnostic Accuracy and Error". Canadian Association of Pathologists annual meeting. Quebec City, Canada, June 9, 2013.
35. "Interpretive Diagnostic Error Reduction". University of Minnesota, Department of Laboratory Medicine and Pathology Grand Rounds. December 11, 2013. Minneapolis, Minnesota.

36. "Interpretive Diagnostic Accuracy and Error". Diagnostic Services Manitoba conference on Shape the Future of Quality Improvements in Pathology II: Advancing Pathology Through Technology, Winnipeg, MB, Canada, January 17-18, 2014.
37. "Interpretive Diagnostic Error Reduction". Department of Pathology, Beth Israel Deaconess Medical Center, Boston, MA March 2016
38. "Interpretive Diagnostic Error Reduction". Moffit Cancer Center, Tampa, FL, June 2017.
39. "Interpretive Diagnostic Error Reduction". North Texas Pathology Society, September 2017
40. "Evidence Based Laboratory Practice Guideline" Department of Pathology, UT Southwestern, Dallas Texas. September 2017
41. "Evidence Based Laboratory Practice Guideline" South Eastern Association of Pathology Chairs meeting, October 2017.

National Courses:

1. "Role of the anatomic and clinical laboratory in the management of transplant patients." ASCP fall meeting, Las Vegas, Nevada, October 11, 1992.
2. "Role of the anatomic and clinical laboratory in the management of transplant patients." ASCP spring meeting, Seattle, Washington, April 11, 1994.
3. "Pathology of liver, kidney, pancreas and small bowel transplantation." CAP Annual meeting, Washington, D.C., March 28, 1996.
4. "Surgical pathology process improvements." ASCP/CAP Spring Meeting, Chicago, Illinois, April 9, 1997.
5. "Pathology of liver, kidney, pancreas and small bowel transplantation." USCAP Annual meeting, Boston, MA, March 28, 1998.
6. "Mavens of Outcomes: The healthcare employer's data information set (HEDIS) as opportunity for pathologists. ASCP/CAP Fall meeting, Washington, DC, October 17, 1998.
7. "Mavens of Outcomes: The healthcare employer's data information set (HEDIS) as opportunity for pathologists. ASCP/CAP Fall meeting, New Orleans, LA, September 25, 1999.
8. "Pathology of liver, kidney, pancreas and small bowel transplantation." USCAP Annual meeting, New Orleans, LA, March 31, 2000.

9. "Advances in liver pathology: Update and application to liver biopsy interpretation in clinical practice". USCAP Annual meeting, Chicago, IL, February, 2002.
10. "Quality assurance and improvement in anatomic pathology." Round table discussion, CAP annual meeting, Washington, D.C. October, 12-15, 2002.
11. "Performance improvement program in surgical pathology(PIP): Selected cases from the 2001 Cycle. CAP annual meeting, Washington, D.C. October, 12-15, 2002.
12. "Legal news you can use". CAP08, San Diego, CA, September 28, 2008.
13. "Legal news you can use". CAP09, Washington, DC, October 2009.
14. "Legal news you can use". CAP10, Chicago, IL, September 2010.
15. "Error reduction and prevention in surgical pathology". CAP11, Dallas, TX, September 2011.
16. "Error reduction and prevention in surgical pathology". CAP12, San Diego, CA, September 2012.
17. "Error reduction and prevention in surgical pathology". CAP13, Orlando, FL, October 2013.
18. "Establishing a comprehensive quality assurance program in surgical pathology". Canadian Association of Pathologists annual meeting. Quebec City, Canada, June 8, 2013.
19. "Practical guide to error reduction; Effective communication and damage control in surgical pathology" United States and Canadian Academy of Pathology annual meeting, San Diego, CA, March 2014.
20. "CAP/ADASP Interpretive diagnostic error reduction guideline". CAP14, Chicago, IL
21. "Practical guide to error reduction; Effective communication and damage control in surgical pathology" United States and Canadian Academy of Pathology annual meeting, Boston, MA, March 2015.
22. "CAP/ADASP Interpretive diagnostic error reduction guideline". CAP15, Nashville, TN, October 2015.
23. "Practical guide to error reduction; Effective communication and damage control in surgical pathology" United States and Canadian Academy of Pathology annual meeting, Seattle, WA, March 2016.
24. "The insiders guide to quality and safety" United States and Canadian Academy of Pathology annual meeting, San Antonio, TX March 2017.

25. "Surgical Pathology Diagnostic error prevention" United States and Canadian Academy of Pathology annual meeting, San Antonio, TX March 2017.

Abstracts/Presentations:

1. **NAKHLEH R**, Vogt JM, Edson JR: Heparin co-factor II assay: Elimination of heparin and antithrombin-III effects. Presented to the Academy of Laboratory Physicians and Scientists Chicago, IL, May 1986.
2. **NAKHLEH R**, Snover DC: Alpha-1-antitrypsin (AAT) expression in nodular regenerative hyperplasia of the liver. Lab Invest 1987; 56:54A. Presented to the International Academy of Pathology, U.S.-Canadian Division, Chicago, IL, March 8-13, 1987.
3. **NAKHLEH R**, Miller W, Snover DC: The significance of mucosal versus salivary gland changes in lip biopsies in the diagnosis of chronic graft versus host disease. Lab Invest 1988; 58:66A. Presented to the International Academy of Pathology, U.S.-Canadian Division, Washington, D.C., March 1988.
4. **NAKHLEH R**, Platt J, Snover DC: Increased expression of Class I and II major histocompatibility (MHC) antigens on gastric and duodenal epithelium in association with acute graft versus host disease. Lab Invest 1988; 58:65A. Presented to the International Academy of Pathology, U.S.-Canadian Division, Washington, D.C., March 1988.
5. Manivel JC, **NAKHLEH RE**, Wick MR, and Sung JH: Immunophenotypic characterization of microglial cells and macrophages in the central nervous system. Lab Invest 1988; 58: 60A. Presented to the International Academy of Pathology, U.S.-Canadian Division, Washington, D.C., March 1988.
6. **NAKHLEH R**, Sung JH, Manivel JC: Malignant lymphomas of the central nervous system: Immunohistochemical and clinicopathologic study of 26 autopsy cases. Am J Clin Pathol 1988; 90:509. Presented to the American Society of Clinical Pathologists, Las Vegas, NV, October 1988.
7. Lee C, **NAKHLEH R**, Song C: Normal tissue changes from RF capacitive hyperthermia in rats: Intestines, liver, kidneys and spleen. Presented to the American Society of Therapeutic Radiology and Oncology Meetings, New Orleans, LA, October 1988.
8. **NAKHLEH R**, Schwarzenberg SJ, Bloomer J, Payne W, Snover DC: The pathology of liver allografts surviving longer than one year. Lab Invest 1988;60:65A. Presented to the International Academy of Pathology, U.S.-Canadian Division, San Francisco, CA, March 1989.
9. **NAKHLEH RE**, Swanson PE, Dehner LP, Wick MR: Morphologic mimicry by malignant melanomas. Lab Invest 1988;60:65A. Presented to International Academy of Pathology, U.S.-Canadian Division, San Francisco, CA, March 1989.

10. Olafsson E, Leppik IE, **NAKHLEH R**, Sung J, Maxwell RE, Gates JR, Fiol ME: Histopathology of vigabatrin in human brain. Presented to the 18th International Epilepsy Congress 1989, New Delhi, India.
11. Swanson PE, **NAKHLEH RE**, Wick MR: Cutaneous adnexal carcinomas with divergent differentiation. Presented at the Annual Meeting of the American Society of Dermato-pathology, San Francisco, November 1989.
12. **NAKHLEH RE**, Gruessner R, Tzardis P, Brayman K, Sutherland DE: Pathology of pancreatic transplants; a morphologic comparison of allogeneic grafts with rejection, syngeneic grafts and chronic pancreatitis. Lab Invest 1990; 62:72A. Presented to the International Academy of Pathology, U.S.-Canadian Division, Boston, MA, March 1990.
13. **NAKHLEH RE**, Gruessner R, Tzardis P, Sutherland DE: Pathology of human transplanted duodenal tissue: A histologic study and comparison with pancreatic pathology in resected pancreaticoduodenal transplants. Lab Invest 1990; 62:72A. Presented to the International Academy of Pathology, U.S.-Canadian Division, Boston, MA, March 1990.
14. **NAKHLEH RE**, Manivel JC, Copenhaver CM, Sung JH, Strickler JG: In situ hybridization for detection of Epstein-Barr virus in central nervous system lymphomas. Lab Invest 1990; 62:72A. Presented to the International Academy of Pathology, U.S.-Canadian Division, Boston, MA, March 1990.
15. **NAKHLEH RE**, Swanson PE, Dehner LP: Rhabdomyosarcoma of the head and neck region in adults. A clinicopathologic study of eleven cases. Lab Invest 1990; 62:71A. Presented to the International Academy of Pathology, U.S.-Canadian Division, Boston, MA, March 1990.
16. **NAKHLEH RE**, Gruessner R, Tzardis P, Sutherland DE: Pancreatic pathology of a streptozotocin induced diabetic pig model. Lab Invest 1990; 62:72A. Presented to the International Academy of Pathology, U.S.-Canadian Division, Boston, MA, March 1990.
17. **NAKHLEH RE**, Gruessner R, Tzardis P, Sutherland DE: Pathology of a pig model for combined pancreas-kidney transplantation. Lab Invest 1990; 62:71A. Presented to the International Academy of Pathology, U.S.-Canadian Division, Boston, MA, March 1990.
18. Swanson PE, Jaszcz W, **NAKHLEH RE**, Kelly DR, Dehner LP: Primitive neuroectodermal tumor: A flow cytometric analysis. Lab Invest 1990; 62:98A. Presented to the International Academy of Pathology, U.S.-Canadian Division, Boston, MA, March 1990.
19. Swanson PE, **NAKHLEH RE**: Touch imprint immunocytochemistry of small cell tumors in children. Lab Invest 1990; 62:8P. Presented to the Society for Pediatric Pathology. Boston, MA, March 1990.
20. Mayoral JL, Pirenne JM, Williams JG, **NAKHLEH RE**, Wilson DB, Dunn DL: Resistance to graft versus host disease after small bowel transplantation in the

- rat. Presented to the American Society of Transplant Surgeons, Chicago, IL, June 1990.
21. Gruessner R, Tzardis P, **NAKHLEH R**, Schechner R, Platt J, Sutherland DER: Comparison of rejection in porcine recipients of single versus combined primary pancreas and renal allografts. Presented to the American Society of Transplant Surgeons, Chicago, IL, June 1990.
22. Pirenne J, Mayoral J, **NAKHLEH R**, Wilson D, Dunn D: A segment of small bowel (SB) protects from the graft versus host disease (GVHD) following entire small bowel transplantation (SBT). Presented to the XXVTH Congress of European Society for Surgical Research. Berlin, GDR 1990. European Surgical Research 1990; 22(51):42-43.
23. Kuni CC, Engeler CM, **NAKHLEH R**, duCret RP, Boudreau RJ: Correlation of TC-99M-DISIDA hepatobiliary studies with biopsies in liver transplant patients. Presented to the Society of Nuclear Medicine, Washington D.C., June 1990. J Nuc Med 1990; 31:731.
24. **NAKHLEH RE**, Gruessner R, Tzardis P, Brayman K, Sutherland DER: Pancreas transplant pathology: An immunohistochemical comparison of allografts with rejection, syngeneic grafts and chronic pancreatitis. Presented to the International Congress of the Transplantation Society, San Francisco, CA, August 1990.
25. Gruessner R, Tzardis P, **NAKHLEH R**, Schechner R, Platt J: Rejection of single versus combined primary pancreas and allografts in porcine recipients. Presented to the International Congress of the Transplantation Society, San Francisco, CA, August 1990.
26. Pirenne J, **NAKHLEH RE**, Dunn DL: Graft versus host disease after organ cluster transplantation. Presented to the Association for Academic Surgery, Houston, Texas November 1990.
27. Engeler CM, Kuni CC, **NAKHLEH R**, duCret RP, Boudreau RJ: TC-99M-DISIDA hepatobiliary imaging in patients with liver transplantation: Correlation with liver biopsies. Presented to the Radiological Society of North America. November 1990, Chicago, IL.
28. Engeler CM, Kuni CC, **NAKHLEH R**, duCret RP, Boudreau RJ: Liver transplant rejection and cholestasis: Comparison of TC-99M-DISIDA hepatobiliary imaging with liver biopsies. Presented to the Radiological Society of North America. November 1990, Chicago, IL.
29. Tzardis P, Gruessner R, **NAKHLEH R**, Schechner R, Golematis B, Sutherland DER: Comparison of rejection of single versus combined primary pancreas and renal allografts in the pig. HepatoGastroenterology, 1990; 37:60A. Presented to the 2nd IGSC joint meeting of Surgeons and Gastroenterologists, November 1990, Athens, Greece.
30. Braunlin E, Bolman RM, Shumway W, Ring WS, Olivari MT, **NAKHLEH RE**: Usefulness of surveillance endomyocardial biopsy after pediatric cardiac

transplantation. J Am Coll Cardiol 17:170A; 1991. Presented to the American College of Cardiology. March 1991, Atlanta, GA.

31. **NAKHLEH RE**, Jones J, Goswitz JJ, Braunlin E, Kubo SH, Bolman RM, Titus J: Correlations of endomyocardial biopsy with autopsy findings in human cardiac allografts. Lab Invest 64:20A; 1991. Presented to the International Academy of Pathology, U.S.-Canadian Division, Chicago IL, March 1991.
32. **NAKHLEH RE**, Bolman III RM, Shumway S, Braunlin E: Correlation of endomyocardial biopsy findings in pediatric cardiac allografts with electrocardiogram voltage. Lab Invest 64:19A; 1991. Presented to the International Academy of Pathology, U.S.-Canadian Division, Chicago IL, March 1991.
33. **NAKHLEH RE**, Glock M, Snover DC: Hepatic pathology of chronic granulomatous disease of childhood. Lab Invest 64:94A; 1991. Presented to the International Academy of Pathology, U.S.-Canadian Division, Chicago IL, March 1991.
34. Goswitz JJ, Braunlin E, Kubo SH, Bolman RM, **NAKHLEH RE**: Cardiac transplant pathology: A review of 28 whole allografts with emphasis on lymphocyte distribution and biopsy correlation. Lab Invest 64:18A; 1991. Presented to the International Academy of Pathology, U.S.-Canadian Division, Chicago IL, March 1991.
35. Swanson PE, Jaszcz W, **NAKHLEH RE**, Dehner LP: Alveolar rhabdomyosarcoma. A flow cytometric analysis of 15 cases, with emphasis on the lymphadenopathic variant. Lab Invest 64:112A; 1991. Presented to the International Academy of Pathology, U.S.-Canadian Division, Chicago IL, March 1991.
36. **NAKHLEH RE**, Bolman RM, Hertz MI: Lung transplant pathology: A comparative study of acute rejection and CMV infection. Lab Invest 64:118A; 1991. Presented to the International Academy of Pathology, U.S.-Canadian Division, Chicago IL, March 1991.
37. Fasola CG, Kim YS, Aeder MI, Dunning M, Mueller R, **NAKHLEH RE**, Almond PS, Payne WD, Dunn DL: Pretransplant immunotherapy can prolong function of small bowel allografts in dogs. Presented to the Society of University Surgeons, February 1991.
38. Brayman K, Moss A, Morel P, **NAKHLEH R**, Moudry-Munns K, Drangsveit M, Dunn D, Sutherland D: Evaluation of Exocrine dysfunction following bladder-drained simultaneous Pancreas-Kidney and solitary pancreaticoduodenal transplantation using a transcystoscopic biopsy technique. Presented to the American Society of Transplant Surgeons, Chicago, IL, June 1991.
39. Farney A, **NAKHLEH R**, Field J, Morel P, Lloveras JJ, Najarian J, Sutherland D: Long term function of islet autotransplantation. Presented to the Third International Congress on Pancreatic and Islet Transplantation, Lyon, France, June 1991.

40. Sutherland DER, Goetz F, Brayman K, **NAKHLEH R**, Najarian JS: Update on course of identical twin pancreas transplants. Presented to the Third International Congress on Pancreatic and Islet Transplantation, Lyon, France, June 1991.
41. Brayman K, Moss A, Morel P, **NAKHLEH R**, Sutherland D: Exocrine dysfunction evaluation in bladder-drained pancreaticoduodenal transplants using a transcystoscopic biopsy technique. presented to the third International Congress on Pancreatic and Islet Transplantation, Lyon, France, June 1991.
42. Engeler CM, Kuni CC, **NAKHLEH R**, Engeler CE duCret RP, Boudreau RJ: TC-99M-DISIDA hepatobiliary imaging in patients with liver transplantation: Correlation with liver biopsies. Presented to the Association of University Radiologists, Orlando, FL 1991.
43. Morel P, Moss A, **NAKHLEH RE**, Schlumpf R, Lloveras J, Field J, Condie R, Matas A, Sutherland DER: 72 hours preservation of the canine pancreas: Replacement of hydroxy-ethylstarch by dextran 40 in the UW solution increases overall success rate but does not improve graft endocrine function. Presented to the Third International Congress on Pancreatic and Islet Transplantation, Lyon, France, June 1991.
44. Pirenne J, D'Silva M, **NAKHLEH RE**, Lee S, Dunn DL: Multiorgan Transplantation in the rat: Development of a new microsurgical model. Presented to the Third International Congress on Pancreatic and Islet Transplantation, Lyon, France, June 1991.
45. Gruessner R, **NAKHLEH R**, Tomadze G, Gruessner A, Adamek M, Sutherland DER: Pancreatic pathology of streptozotocin induced diabetes mellitus and subsequent transplantation of pancreas alone or in combination with a kidney in porcine recipients. Presented to the Third International Congress on Pancreatic and Islet Transplantation, Lyon, France, June 1991.
46. Gruessner R, **NAKHLEH R**, Tzardis P, Schechner R, Sutherland DER: Difference of rejection patterns of single versus combined primary pancreas and kidney allotransplantation in pigs. Presented to the Third International Congress on Pancreatic and Islet Transplantation, Lyon, France, June 1991.
47. Pirenne J, D'Silva M, **NAKHLEH RE**, Lee S, Jaquet N, Dunn DL: Pancreas induces graft-vs-host disease when transplanted en bloc with liver and small bowel. Presented to the Third International Congress on Pancreatic and Islet Transplantation, Lyon, France, June 1991.
48. Brayman KL, Morel P, Field J, Lloveras JJ, Leventhal J, **NAKHLEH R**, Jessurum J, Platt J, Matas AJ, Najarian JS, Gores PF, Sutherland DER: A comparison of mice and rats as recipients for canine islet xenografts. Presented at the First international congress for Xenotransplantation, Minneapolis, MN, August 1991.
49. Kuni C, **NAKHLEH R**, duCret R, Boudreau R: Failure of Hypoxic vasoconstriction response in unilateral lung transplantation. Radiological Society of North America, 77th annual meeting, December 1991.

50. **NAKHLEH RE**, Zarbo RJ, Carey JL, Gown AM: Myogenic differentiation in spindle cell carcinoma of the upper aerodigestive tract. Presented to the International Academy of Pathology, U.S.-Canadian Division, Atlanta, GA, March 1992; Mod Pathol 5:73A; 1992.
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