

CURRICULUM VITAE

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Name: David Shaffer

Address: Division of Kidney and Pancreas Transplantation
Vanderbilt University Medical Center
912 Oxford House
Nashville, TN 37232

Date of Birth: October 27, 1956

Place of Birth: Oceanside, New York

Education:

9/74-5/78 . B.A., Yale University
9/78-5/82 M.D., Columbia University College of Physicians and Surgeons

Postdoctoral Training:

Internships and Residencies:

7/82-6/83 Intern in Surgery, Yale-New Haven Hospital, New Haven, CT
7/83-6/85 Resident in Surgery, Harvard Surgical Service, New England
Deaconess Hospital, Boston, MA
1/87-12/88 Resident in Surgery, Harvard Surgical Service, New England
Deaconess Hospital, Boston, MA

Clinical and Research Fellowships:

7/85-12/86 Research Fellow, Division of Organ Transplantation, New England
Deaconess Hospital, Boston, MA
1/89-12/89 Clinical Fellow, Division of Organ Transplantation, New England
Deaconess Hospital, Boston, MA

Licensure and Certification:

1983 Diplomate National Board of Medical Examiners
1985 Massachusetts License Registration
1990 Certified, American Board of Surgery
1993 Fellow, American College of Surgeons
1996 Rhode Island License
1999 Recertified, American Board of Surgery
2001 Tennessee Medical License

Academic Appointments:

7/83-12/88	Clinical Fellow in Surgery, Harvard Medical School
1/89-6/92	Instructor in Surgery, Harvard Medical School
7/92-6/97	Assistant Professor of Surgery, Harvard Medical School
7/97-6/01	Associate Professor of Surgery, Harvard Medical School
6/01-present	Professor of Surgery, Vanderbilt University School of Medicine

Hospital Appointments:

7/85-12/86	Associate Staff, The Cambridge Hospital, Cambridge, MA
1/89-6/96	Active Staff, New England Deaconess Hospital, Boston, MA
7/96-6/01	Active Staff, Beth Israel Deaconess Medical Center, Boston, MA
1/91-6/01	Courtesy Staff, New England Baptist Hospital, Boston, MA
7/96-6/97	Active Staff, Rhode Island Hospital, Providence, RI
6/01-present	Active Staff, Vanderbilt University Medical Center, Nashville, TN
6/01-present	Provisional Staff, St. Thomas Hospital, Nashville, TN
8/01-present	Active Staff, VA Medical Center, Nashville, TN

Awards and Honors:

1978	Phi Beta Kappa, Yale University
1978	Summa cum Laude, Yale University
1978	J.M. Foundation Fellowship in Rehabilitation Medicine, Columbia University College of Physicians and Surgeons
1982	Alpha Omega Alpha, Columbia Physicians and Surgeons
1987	Upjohn Young Investigator's Award, American Society of Transplant Surgeons
1989	Ortho Biotech Transplant Fellowship Award, American Society of Transplant Surgeons
2008	Vanderbilt University School of Medicine John L Sawyers Award for outstanding contributions to surgical education

Major Committee Assignments:

National and Regional

1991-93	Chairman, Massachusetts Center for Pancreas Transplantation
1994-97	Medical Review Board, ESRD Network of New England
1994-99	Board of Directors, National Kidney Foundation of Massachusetts and Rhode Island, Inc.
1996-2001	Board of Trustees, New England Organ Bank
1999-2001	Medical Oversight Board, New England Organ Bank
1999-2001	UNOS, Region I Representative, Beth Israel Deaconess Medical Center
2001-	Medical Advisory Committee, Tennessee Donor Services

2002-2005 Board of Directors, National Kidney Foundation of Middle Tennessee
2004-2007 Standards on Organ Transplantation Committee, American Society of Transplant Surgeons

Hospital

1996-97 Surgical Committee on Product Evaluation, New England Deaconess Hospital
1996-2001 Chair, Transplantation Subcommittee, Pharmacy and Therapeutics Committee, Beth Israel Deaconess Medical Center
2003-2004 Clinical Laboratory Support Advisory Committee, Vanderbilt University Medical Center

Memberships, Offices, and Committee Assignments in Professional Societies:

1985- Massachusetts Medical Society
1985- Norfolk County Medical Society
1989- The Transplantation Society
1989- Association for Academic Surgery
1990- American Society of Transplant Surgeons
1991- Fellow, American College of Surgeons
1992- International Pancreas and Islet Transplant Association
1996- Boston Surgical Society
1996- New England Surgical Society

Principal Clinical and Hospital Service Responsibilities:

1/98-6/96 Attending Surgeon, Division of Organ Transplantation, New England Deaconess Hospital
7/96-6/01 Attending Surgeon, Division of Organ Transplantation, Beth Israel Deaconess Medical Center
7/97-6/01 Surgical Director, Kidney Transplantation, Beth Israel Deaconess Medical Center, Boston, MA
7/98-6/01 Surgical Director, Pancreas Transplantation, Beth Israel Deaconess Medical Center, Boston, MA
6/01-present Chief, Division of Kidney and Pancreas Transplantation and Surgical Director, Kidney and Pancreas Transplantation, Vanderbilt University Medical Center, Nashville, TN
6/01-present Surgical Director, Kidney Transplantation, St. Thomas Hospital, Nashville, TN

Editorial Boards:

1993-2001 TRANSPLANTATION

Research Funding Information:

Past:

- 1989 Principal Investigator
American Society of Transplant Surgeons
Ortho Biotech Transplant Fellowship Award
“Graft-versus-host disease following small bowel transplantation”
- 1992 Principal Investigator
Syntex (USA) Inc.
“Use of RS-61443 following small bowel transplantation”
- 1993-94 Principal Investigator
Fujisawa USA
“Rescue use study of FK506 in solid organ transplantation for patients who engraftment cannot be sustained using standard immunosuppressive therapy”
- 1994-95 Co-Investigator
Sandoz Pharmaceutical Corporation
“Multicenter randomized comparative study comparing Sandimmune oral solution and OG-325 oral solution in the prevention of renal allograft rejection”
- 1994-97 Co-Investigator
Sandoz Pharmaceutical Corporation
“Double blind study of Neoral soft gelatin (SGC) and Sandimmune soft gelatin capsules (SGC) in primary cadaver transplant patients”
- 1995-97 Co-Investigator
Sandoz Pharmaceutical Corporation
“Multicenter open label study of safety and tolerability of Neoral in stable renal transplant patients”
- 1995-98 Principal Investigator
Atrium Medical Corporation
“Randomized trial comparing Atrium Hybrid PTFE and conventional PTFE for vascular access for chronic hemodialysis”
- 1996-98 Co-Investigator
Wyeth-Ayerst Research
“A double blind study, comparative study of the effect of two dose levels of Sirolimus versus Azathioprine, administered concomitantly with standard immunosuppressive therapy in renal allograft recipients”

1998-99 Co-Investigator
Novartis Pharmaceutical Corporation
“Simulect with steroid withdrawal vs. Simulect with standard steroid treatment to prevent renal transplant rejection”

1999-2000 Principal Investigator
Wyeth Ayerst Research
Tolerance induction in a primate model using co-stimulation blockade based treatment

2000-01 Co-Investigator
Wyeth Ayerst Research Institute
A phase I randomized, third party unblinded, placebo controlled, safety tolerability and pharmacokinetic study of single ascending doses of humanized anti B7.1 (h1F1) and B7.2 (h1D3) in de novo renal transplant patients

2000-01 Co-Investigator
Wyeth Ayerst Research Institute
A comparative, open label study to evaluate graft function in de novo renal allograft recipients treated with either a “reduced dose” or a “standard dose” of cyclosporine in combination with Rapamune (sirolimus) and corticosteroids

2002-03 Principal Investigator
Sangstat
Calcineurin inhibitor avoidance in patients with delayed graft function (DGF) and recipients of marginal donor kidneys (MDKs)

2003-05 Principal Investigator
Novartis Pharmaceuticals Corporation
FTY720 A125
A one-year, multicenter, partially blinded, double-dummy, randomized study to evaluate the efficacy and safety of FTY720 combined with reduced-dose or full-dose Neoral and corticosteroids versus Mycophenolate Mofetil (MMF, Cellcept) combined with full-dose Neoral and corticosteroids, in de novo adult renal transplant recipients.

2004-06 Principal Investigator
Genzyme Corporation
Calcineurin inhibitor avoidance with Thymoglobulin induction and sirolimus in kidney transplant recipients
Unrestricted educational grant

2002-09 Principal Investigator
Fugisawa Healthcare, Inc.

A Prospective, randomized, multicenter, double-blind study of early corticosteroid cessation vs long term maintenance corticosteroid therapy with Prograf and Cellcept in primary renal transplant recipients (Protocol #20-99-001)

Current:

2003- Co-Investigator
Fugisawa Healthcare, Inc.
A Phase III, randomized, open-label, comparative, multi-center study to assess the safety and efficacy of Prograf (tacrolimus)/MMF, modified release (MR) tacrolimus/MMF, and Neoral (cyclosporine)?MMF in de novo kidney transplants.

2005- Principal Investigator
Astellas Pharma US, Inc.
A Phase IV, open-label, comparative, multi-center study to assess the safety and efficacy of induction agents Alemtuzumab (Campath 1H) or Basiliximab (Simulect) or rabbit anti-thymocyte globulin (Thymoglobulin) in combination with tacrolimus (Prograf) and Mycophenolate Mofetil (Cellcept) and a rapid steroid withdrawal in renal transplant recipients.

Invited Presentations

1990 Surgical Grand Rounds, New England Medical Center, Boston, MA
“Pancreas transplantation”

Surgical Grand Rounds, Albany Medical Center, Albany, NY
“Pancreas transplantation”

1993 Renal Grand Rounds, Rhode Island Hospital, Providence, RI
“New immunosuppressive agents”

Medical Grand Rounds, Monadnock Hospital, New Hampshire
“Update on transplantation”

1994-96 Rhode Island Hospital, Providence, RI, Division of Nephrology
“Case presentations” (Monthly)

1995 Surgical Grand Rounds, Mount Auburn Hospital, Cambridge, MA
“Vascular access for hemodialysis”

Medical Grand Rounds, Whidden Hospital, Everett, MA

- “Kidney and pancreas transplantation”
- Transplant Conference, University Hospital, Boston, MA
“Pancreas transplantation”
- Surgical Grand Rounds, Baystate Medical Center, Springfield, MA
“New immunosuppressive agents”
- 1996 ESRD Network of New England, Annual Meeting, Sturbridge, MA
“The living unrelated kidney donor”
- Transplant Conference, Boston Medical Center, Boston, MA
“Living donor kidney transplantation”
- 1997 Surgical Grand Rounds, Sturdy Memorial Hospital, Attleboro, MA
“Kidney transplantation”
- ESRD Network of New England, Annual Meeting, Sturbridge, MA
“Kidney transplantation”
- Mass Bay Chapter of ANNA, Annual Meeting, Needham, MA
“Kidney transplantation”
- Boston University School of Medicine, Department of Continuing
Medical Education. Current Progress in Dialysis Access II:
“Special considerations in the diabetic hemodialysis patient”
- 1998 Boston University School of Medicine, Department of Continuing
Medical Education. Current Progress in Dialysis Access III:
Vascular surgery following successful kidney-pancreas transplantation”
- Surgical Grand Rounds, William Backus Hospital, Norwich, CT
“Vascular access for hemodialysis”
- 1999 Surgical Grand Rounds, Mount Auburn Hospital, Cambridge, MA
“Vascular access for hemodialysis”
- Surgical Rounds, Greenville Hospital, Greenville, SC
“Vascular access for hemodialysis”
- 2001 Issues in Transplantation and Organ Procurement, Tennessee Donor
Services, Nashville, TN, May 2001
“Pancreas after kidney (PAK) transplantation: Recent Advances”
- Surgical Grand Rounds, Vanderbilt University Medical Center,
Nashville, TN, Oct, 2001

“Pancreas Transplantation-Current Update”

Transplant elective (2nd yr medical students)

October 17, 2001

“Pancreas transplantation”

Renal Grand Rounds, Vanderbilt University Medical Center, Nashville, TN,

Oct 2001

“Pancreas Transplantation-Current Update”

Southern Medical Association, 95th Annual Scientific Assembly,

Nashville, TN, Nov 2001

“Kidney Transplantation-Donor and Recipient Aspects”

2002

Medical Grand Rounds, Bedford County Medical Center, Shelbyville,

TN, April 2002

“Kidney Transplantation-Current Update”

Medical Grand Rounds, Cumberland Medical Center, Crossville, TN,

June 2002

“Kidney Transplantation-Current Update”

Medical Grand Rounds, Erlanger Medical Center, Chattanooga, TN,

June 2002

“Pancreas Transplantation-Current Update”

Transplant elective (2nd yr medical students)

October 9, 2002

“Pancreas transplantation”

2003

Endocrine Grand Rounds, Vanderbilt University Medical Center

May 2003

“Pancreas Transplantation-Current Update”

2004

Renal Transplant Conference, Duke University Medical Center

April 2004

“Calcineurin-inhibitor avoidance strategies in kidney transplantation.”

Surgical Grand Rounds, Vanderbilt University Medical Center

April 2004

“Kidney Transplantation”

Resident Teaching Conference, Vanderbilt University Medical Center

April 2004

“Immunosuppression”

- 2005 Transplant Conference, Washington University School of Medicine, St Louis, MO
January 26, 2005
“Calcineurin inhibitor-sparing strategies in kidney transplantation”
- National Kidney Foundation of Tennessee, 20th Annual Renal Symposium,
September 23, 2005, “Kidney transplant 2005: What’s New?”
- Transplant elective (2nd yr medical students)
October 5, 2005
“Pancreas transplantation”
- Transplant Conference, Emory University Medical Center, Atlanta, GA
November 16, 2005
“Calcineurin inhibitor-sparing strategies in kidney transplantation”
- 2006 Surgical Grand Rounds, Vanderbilt University Medical Center
April 7, 2006
“Immunosuppression”
- Renal Transplant Conference, Rhode Island Hospital, Providence, RI
April 28, 2006
“Calcineurin inhibitor-sparing strategies in kidney transplantation”
- International College of Surgeons, 68th Annual Surgical Update, Nashville, TN
June 23, 2006
“Surgical cure of diabetes: Current status of whole organ pancreas transplantation.”
- Transplant elective (2nd yr medical students)
October 11, 2007
“Pancreas transplantation”
- 2007 Transplant elective (2nd yr medical students)
October 11, 2007
“Pancreas transplantation”
- 2008 Surgical Grand Rounds, Vanderbilt University Medical Center,
April 18, 2008
“Vascular access for hemodialysis”
- Kidney/Pancreas Transplant Conference, Vanderbilt University Medical Center

October 10, 2008
“Pulsatile perfusion of DCD kidneys”

Transplant elective (2nd yr medical students)
October 10, 2008
“Pancreas transplantation”

Nephrology Grand Rounds, Vanderbilt University Medical Center
October 21, 2008
“AV access for hemodialysis: What the nephrologist needs to know”

Transplant Managed Care Education Forum, Vanderbilt Transplant Center
November 6, 2008
“Expanding options for living donor kidney transplantation at Vanderbilt.”

BIBLIOGRAPHY

1. Shaffer D, Jenkins RL, Karchmer AW, Monaco AP. Toxic shock syndrome complicating orthotopic liver transplantation – A case report. *Transplantation* 1986, 42:434-437.
2. Shaffer D, Benotti PN, Bothe A, Jenkins, RL, Blackburn GL. Subcutaneous drainage in gastric bypass surgery. *Infec. Surgery* 1986, 5:716-724.
3. Shaffer D, Pearl RH, Jenkins RL, Hammer S, Dzik W, Groopman, JE, Benotti PN, Monaco AP. HTLV III/LAV in kidney and liver transplantation. *Transpl. Proc.* 1987, 19:2176-2178.
4. Shaffer D, Hammer SM, Monaco AP. Infectious complications with the use of cyclosporine versus azathioprine after cadaver kidney transplantation. *Am. J. Surg.* 1987, 153:381-386.
5. Rubin RH, Jenkins RL, Shaw BW, Shaffer D, Pearl RH, Erb S, Monaco AP, van Thiel DH. The acquired immunodeficiency syndrome and transplantation. *Transplantation* 1987, 44:1-4.
6. Shaffer D, Benotti PN, Bothe A, Jenkins RL, Blackburn GL. A prospective randomized trial of abdominal wound drainage in gastric bypass surgery. *Ann. Surg.* 1987, 206:134-137.
7. Shaffer D, Maki T, DeMichele SJ, Karlstad MD, Bistran BR, Balogh K, Monaco AP. Studies in small bowel transplantation: Prevention of graft-versus-host disease with preservation of allograft function by donor pretreatment with antilymphocyte serum. *Transplantation* 1988, 45:262-269.

8. Diflo T, Shaffer D, Maki T, Monaco AP. The effects of antilymphocyte serum and cyclosporine on orthotopic small bowel allografts in rat. *Transpl. Proc.* 1988, 20:200-202.
9. Shaffer D, Diflo T, Love W, Clowes, GHA, Maki T, Monaco AP. Immunologic and metabolic effects of caval versus portal venous drainage in small bowel transplantation. *Surgery* 1988, 104:518-524.
10. Shaffer D, Monaco AP. HIV infection in kidney and liver transplantation. *Dialysis and Transplantation* 1988, 17:288-291.
11. Shaffer D, Diflo T, Love W, Clowes GHA, Maki T, Monaco AP. Metabolic effects of systemic versus portal venous drainage of orthotopic small bowel isografts. *Transpl. Proc.* 1989, 21:2872-2874.
12. Monaco AP, Sahyoun AI, Madras PN, Shaffer D, Etienne T, Simpson MA, Williams M, Kaldany A, D'Elia, J. Cyclosporine in multi-drug therapy in living related kidney transplantation. *Clin. Transpl.* 1990, 4:347-356.
13. Shaffer D, Simpson MA, Milford EL, Gottschalk R, Kut JP, Maki T, Monaco AP. Donor pretreatment with monoclonal antibody for prevention of graft-versus-host disease following small bowel transplantation. Effect of depletion of T cell subsets. *Transpl. Proc.* 1991, 23:679-681.
14. Hartner WC, Shaffer D, Markees TG, DeFazio SR, Monaco AP, Gozzo JJ. Effect of prolonged cyclosporine A treatment following a short course of ALS and infusion of donor bone marrow on canine renal allograft function. *Transpl. Proc.* 1991, 23:477-479.
15. Shaffer D, Ubhi CS, Simpson MA, Gottschalk R, Milford EL, Maki T, Monaco AP. Prevention of graft-versus-host disease following small bowel transplantation with polyclonal and monoclonal antilymphocyte serum: Effect of timing and route of administration. *Transplantation* 1991, 52:948-952.
16. Lewis WD, Jenkins RL, Burke P, Winn KM, Shaffer D, Lopez R, Monaco AP. FK-506 rescue therapy in liver transplant recipients with drug resistant rejection. *Transpl. Proc.* 1991, 23:2989-2991.
17. Simpson MA, Young-Fadok TM, Madras PN, Freeman RB, Dempsey RA, Shaffer D, Lewis WD, Jenkins RL, Monaco AP. Sequential interleukin 2 and interleukin 2 receptor levels distinguish rejection from cyclosporine toxicity in liver allograft recipients. *Arch. Surg.* 1991, 126:717-720.

18. Shaffer D, Madras P, Williams M, D'Elia J, Kaldany A, Monaco AP. Use of dacron-cuffed silicone catheters as long-term hemodialysis access. *ASAIO Journal* 1992, 38:55-58.
19. Min DI, Bergstrom S, Hwang GC, Madras PN, Shaffer D, Sahyoun A, Monaco AP. Bioavailability and patient acceptance study of cyclosporine soft gelatin capsule in renal allograft recipients. *The Annals of Pharmacotherapy* 1992, 26:175-179.
20. Shaffer D, Madras PN, Sahyoun AI, Williams M, Kaldany A, D'Elia J, Monaco AP. Combined kidney and pancreas transplantation: A 3-year experience. *Arch. Surg.* 1992, 127:574-578.
21. Shaffer D, Blakely M, Gottschalk R, Monaco AP. Small bowel transplantation in rats using RS-61443. *Transpl. Proc.* 1992, 1159-1160.
22. Shaffer D, Lewis WD, Jenkins RL, Monaco AP. Combined liver and whole pancreas procurement in donors with a replaced right hepatic artery. *Surg. Gyn. Obstet.* 1992, 175:204-207.
23. Shaffer D, Muanza T, Blakely ML, Simpson MA, Monaco AP. RS-61443 prevents graft-versus-host disease in two different rodent models. *Transplantation* 1993, 55:221-223.
24. Weinrauch LA, D'Elia J, Gleason RE, Shaffer D, Monaco AP. Calcium channel blockers and beta blockers improve renal allograft and patient survivals in diabetics. *JASN* 1993, 4:76.
25. Shaffer S, Madras PN, Sahyoun AI, Simpson MA, Monaco AP. Cadaver donor hyperglycemia does not impair long-term pancreas allograft survival or function. *Transpl. Proc.* 1994, 26:439-440.
26. Blakely ML, Shaffer D, Ozato H, Gottschalk R, Van der Werf WJ, Monaco AP. Donor intrathymic injection with recipient splenocytes allows indefinite survival following small bowel transplantation in a rat graft-versus-host disease model. *Transpl. Proc.* 1994, 26:1582.
27. Kuo PC, Shaffer D, Madras P, Sahyoun AI, Monaco AP. Retroperitoneal kidney and intraperitoneal pancreas transplantation. *J. Am. Coll. Surg.* 1994, 179:349-350.
28. Hartner WC, Markees TG, DeFazio SR, Shaffer D, Van der Werf WJ, Gilchrist B, Yatko C, Monaco AP, Gozzo JJ. Effect of early administration of donor marrow cells on renal allograft survival in dogs treated with antilymphocyte serum and cyclosporine. *Transplantation* 1995, 59:131-134.

29. Blakely ML, Shaffer D, Ozato H, Gottschalk R, Van der Werf WJ, Monaco AP. Indefinite survival following small intestinal transplantation after intrathymic injection of the donor with recipient-type splenocytes in a rat model. *Transplantation* 1995, 59:309-311.
30. Shaffer D. Catheter-related sepsis complicating long-term, tunnelled central venous dialysis catheters: Management by guidewire exchange. *Am. J. Kid. Dis.* 1995, 25:593-596.
31. Washburn WK, Shaffer D, Conway P, Madras PN, Monaco AP. A single center experience with six-antigen matched kidney transplants. *Arch. Surg.* 1995, 130:277-282.
32. Shaffer D, Simpson MA, Madras PN, Sahyoun AI, Conway, PA, Davis CP, Monaco AP. Kidney transplantation in diabetic patients using cyclosporine: Five year follow-up. *Arch. Surgery* 1995, 130:283-288.
33. Pereira BJG, Wright TL, Schmid CH, Levy AS for the New England Organ Bank Hepatitis C Study Group. Consequences of transmission of hepatitis C infection by organ transplantation: A controlled study. *Lancet* 1995, 345:484-487.
34. Shaffer D, Simpson MA, Conway P, Madras PN, Monaco AP. Normal pancreas allograft function following simultaneous pancreas-kidney transplantation after rescue therapy with tacrolimus (FK506). *Transplantation* 1995, 59:1063-1066.
35. Lesnikowski BA, Shaffer D, Van der Werf WJ, Bach FH, Hancock WW. Xenograft endothelial and host mononuclear cell activation and cytokine expression during rejection of pig-to-baboon discordant xenografts. *Transpl. Proc.* 1995, 27:290-291.
36. Weinrauch LA, D'Elia J, Gleason RE, Shaffer D, Monaco AP. Role of calcium channel blockers in diabetic renal transplant patients: Preliminary observations on protection from sepsis. *Clin. Nephrol.* 1995, 44:185-192.
37. Periera BJG, Wright TL, Schmid CH, Levey AS for the New England Organ Bank Hepatitis C Study Group. The impact of pretransplantation hepatitis C infection on the outcome of renal transplantation. *Transplantation* 1995, 60:799-805.
38. Washburn WK, Shaffer D, Simpson MA, Conway P, Madras PN, Monaco AP. Tacrolimus rescue therapy for renal allograft rejection refractory to cyclosporine-based immunosuppression. *Transpl. Proc.* 1996, 28:1025-1026.

39. Woodle SE, Thistlewaite JR, Gordon JH for the FK506 Kidney Transplant Study Group. A multicenter trial of tacrolimus rescue therapy in refractory acute renal allograft rejection. *Transplantation* 1996, 62:594-599.
40. Shaffer D, Madras PN, Conway P, Davis C, Simpson MA, Monaco AP. Mycophenolate Mofetil eliminates the rationale for antilymphocyte induction therapy in non-haploidentical living donor kidney transplants. *Transp. Proc.* 1997, 29:342-343.
41. Morrissey PE, Shaffer D, Madras PN, Monaco AP. Progression of peripheral vascular complications in diabetics after kidney-pancreas transplant versus kidney transplant alone. *Transpl. Proc.* 1997, 29:662-663.
42. Morrissey PE, Gohh R, Shaffer D, Crosson A, Madras PN, Sahyoun AI, Monaco AP. Correlation of clinical outcomes after tacrolimus conversion for resistant kidney rejection or cyclosporine toxicity with pathologic staging by the Banff criteria. *Transplantation* 1997, 63:845-848.
43. Shaffer D, A prospective, randomized trial of 6 mm versus 4-7 mm PTFE grafts for hemodialysis access in diabetic patients. In Henry ML, Ferguson RM. (eds). *Vascular Access for Hemodialysis – V*, W.L. Gore and Associates, Inc. and Precept. Press, Inc. 1997, 91-94.
44. Morrissey PE, Shaffer D, Monaco AP, Conway P, Madras PN. Peripheral vascular disease after kidney-pancreas transplantation in diabetic patients with end-stage renal disease. *Arch. Surg.* 1997, 132:358-362.
45. Shaffer D, Sahyoun AI, Madras PN, Monaco AP. 201 consecutive living donor nephrectomies. *Arch. Surg.* 1998; 133:426-431.
46. Morrissey PE, Gordon F, Shaffer D, Madras PN, Silva P, Sahyoun AI, Monaco AP, Hill T, Lewis WD, Jenkins RL. Combined liver-kidney transplantation in patients with cirrhosis and renal failure: Effect of a positive cross-match and benefits of combined transplantation. *Liver Transplantation and Surgery* 1998, 4:363-369.
47. Williams ME, Shaffer D. ACE inhibitor-induced transplant acute renal failure due to donor fibromuscular dysplasia. *Nephrol Dial Transpl* 1999, 14: 760-4.
48. Avihingsanon Y, Ma N, Wang C, Shaffer D, Pavlakis M, Strom TB. Upregulation of cytoprotective genes, heme oxygenase-1 and A20, is a marker of human renal allograft rejection (abstract). *J Am Soc Nephrol* 2000; 11: 714A.
49. Sakoulas G, Koralnik IJ, Shaffer D, Pavlakis M. Fatal cardiovascular collapse due to polyomavirus infection of capillary endothelial cells in a renal transplant recipient. *Graft* 2002, 5 (supplement): S104-S110.

50. Shaffer D, Langone A, Nylander WA, Goral S, Kizilisik AT, Helderman JH. A pilot protocol of a calcineurin-inhibitor free regimen for kidney transplant recipients of marginal donor kidneys or with delayed graft function. *Clin Transplant* 2003; 17 (Suppl. 9): 31-34.
51. Kizilisik AT, Feurer ID, Van Buren DH, Wise P, Van Buren D, Hopkins J, Ray J, Nylander W, Shaffer D, Helderman JH, Langone AJ, Speroff T, Pinson CW. Effects of diabetes and cadaveric organs on functional performance and health-related quality of life after kidney transplantation. *Am J Surg* 2003; 186: 535-539.
52. Moore D, Feurer I, Speroff T, Shaffer D, Nylander W, Kizilisik T, Butler J, Awad J, Gorden DL, Chari R, Wright JK, Pinson CW. Survival and quality of life after organ transplantation in veterans and nonveterans. *Am J Surg* 2003; 186: 476-480.
53. Grogan EL, Nylander WA, Shaffer D. Living-related transplantation of an ectopic pelvic kidney. *Transplantation* 2004; 77: 952-953.
54. Kizilisik AT, Kim SB, Nylander WA, Shaffer D. Improvements in dialysis access survival with increasing use of arteriovenous fistulas in a Veterans Administration Medical Center. *Am J Surg* 2004; 188: 614-616.
55. Kizilisik AT, Ray JM, Nylander WA, Langone AJ, Helderman JH, Shaffer D. Living donor kidney transplantation in a Veterans Administration medical center. *Am J Surg* 2004; 188: 611-613.
56. Shaffer D, Langone A, Nylander WA, Kizilisik AT, Helderman JH, Reduced BK virus nephropathy but increased acute rejection with Mycophenolate Mofetil dose reduction in kidney transplantation. *Graft* 2004; 7 (1): 31-32
57. Kizilisik AT, Ray JB, Nylander WA, Langone AJ, Helderman JH, Shaffer D. Kidney transplantation in a Veterans Administration Medical Center: 40 years' experience. *Experimental and Clinical Transplantation* 2004; 2: 238-241.
58. Moore DE, Feurer ID, Rodgers S Jr., Shaffer D, Nylander W, Gorden DL, Chari RS, Wright JK, Pinson CW. Is there racial disparity in outcomes after solid organ transplantation. *Am J Surg* 2004; 188: 571-4.
59. Ramanathan V, Goral S, Tanriover B, Feurer I, Kazancioglu R, Nylander WA, Shaffer D, Helderman JH. Screening asymptomatic diabetic patients for coronary artery disease prior to renal transplantation. *Transplantation* 2005; 79: 1453-58.
60. Tanriover B, Chuang P, Fishbach B, Helderman JH, Kizilisik T, Nylander W, Shaffer D, Langone AJ. Polyclonal antibody-induced serum sickness in renal

- transplant recipients: Treatment with therapeutic plasma exchange. *Transplantation* 2005; 80: 279-281.
61. Schaefer, HM, Kizilisik AT, Feuer I, Langone AJ, Helderman JH, Nylander WA, Shaffer D. Short-term results under three different immunosuppressive regimens at one center. *Trans Proc* 2006; 38: 3466-3467.
 62. Shaffer D, Kizilisik AT, Helderman JH, Langone, AJ, Nylander WA, Feuer I, Schaefer HM. Calcineurin inhibitor (CNI) avoidance vs steroid avoidance following kidney transplantation: Post-operative complications. *Trans Proc* 2006; 38: 3464-3465.
 63. Liu H, Feurer ID, Dwyer K, Speroff T, Shaffer D, Pinson CW. The effects of gender and age on health-related quality of life following kidney transplantation. *Journal of Clinical Nursing* online publication February 21, 2007.

Reviews and Educationally Relevant Publications

1. Shaffer D, Monaco AP. Whole pancreas and islet cell transplantation. In Weir G, Kahan CR (eds), *Joslin Diabetes Mellitus*, 13th Edition, Philadelphia, Lea & Febiger, 1993.
2. Blakely ML, Shaffer D, Monaco AP. Donor and graft pretreatment. In Grant DR, Wood RFM (eds), *Small bowel transplantation*. Great Britain, Edward Arnold, 1994.
3. Shaffer D. Lessons from vascular access procedures for hemodialysis. In Bothe A (ed). *Surgical Oncology Clinics of North America* 1995, 4:537-548.
4. Shaffer D. Book review of Morris, Peter J. "Kidney transplantation: Principles and practice", 4th Ed., Phil., W.B. Saunders Company 1994 for *CURRENT SURGERY* 1996, 53:1-2.
5. Sillman FH, Sentovich S, Shaffer D. Ano-genital neoplasia in renal transplant patients. In Gaciong ZA (ed) *Annals of Transplantation* 1998, 2:59-66.
6. Auchincloss H, Shaffer D. Pancreas transplantation. In Ginns, Cosimi, Morris (eds). *Transplantation*, Malden, MA Blackwell Science, Inc. 1999.
7. Shaffer D. Intraabdominal complications after pancreas transplantation. *Seminars in Colon and Rectal Surgery*, 2002, 13: 227-230.

Abstracts/Presentations

1. "HTLV-III/LAV infection in kidney and liver transplantation (poster)". Presented at 11th International Congress of the Transplantation Society, Helsinki, Finland, August, 1986.
2. "Studies in small bowel transplantation: Prevention of graft-versus-host disease with preservation of allograft function by donor pretreatment with antilymphocyte serum". Presented at American Society of Transplant Surgeons, Chicago, IL, May, 1987.
3. "Metabolic effects of systemic versus portal venous drainage of orthotopic small bowel isografts". Presented at the 12th International Congress of the Transplantation Society, Sydney, Australia, August, 1988.
4. "Prevention of graft-versus-host disease following small bowel transplantation with polyclonal and monoclonal antilymphocyte serum: Effect of timing and route of administration. Presented at the American Society of Transplant Surgeons, Chicago, IL, May, 1990.
5. "Donor pretreatment with monoclonal antibody for prevention of graft-versus-host disease following small bowel transplantation: Effect of depletion of T cell subsets". Presented at the 13th International Congress of the Transplantation Society, San Francisco, CA, August, 1990.
6. "Use of dacron-cuffed silicone catheters as long-term hemodialysis access (poster)". Presented at the 37th annual meeting of the American Society of Artificial Internal Organs, Chicago, IL, April, 1991.
7. "Kidney-pancreas transplantation: A 3-year experience". Presented at the New England Surgical Society, Quebec, Canada, September, 1991.
8. "Small bowel transplantation in rats using RS-61443: Effect on GVHD and rejection". Presented at the International Symposium on Small Bowel Transplantation, London, Ontario, October, 1991.
9. "Cadaver donor hyperglycemia does not impair long-term pancreas allograft survival or function". Presented at the 4th International Congress on Pancreas and Islet Transplantation, Amsterdam, June, 1993.
10. "Kidney transplantation in diabetic patients using cyclosporine: Long-term follow-up". Presented at the New England Surgical Society, Newport, RI, September, 1994.

11. “Increased bioavailability of Neoral versus Sandimmune in a diabetic renal transplant patient with short gut syndrome”. Presented at Cyber-Congress: Transplantation in the next millennium, Washington, DC, November, 1995.
12. “A prospective, randomized trial of 6 mm versus 4-7 mm stepped PTFE grafts for hemodialysis access in diabetic patients”. Presented at Vascular Access for Hemodialysis – V, Tuscon, AZ, May, 1996.
13. “Mycophenolate Mofetil eliminates the rationale for antilymphocyte induction therapy in non-haploidentical living donor kidney transplants”. Presented at XVI International Congress of the Transplantation Society, Barcelona, Spain, August, 1996.
14. Shaffer, D. “A prospective, randomized trial of 6 mm versus 4-7 mm stepped PTFE grafts for hemodialysis access in diabetic patients. Presented at the Joint Scientific Session of the New England Society for Vascular Surgery/New England Surgical Society. Dixville Notch, NH, September, 1996.
15. Shaffer D, Sahyoun AI, Madras PN, Monaco AP. “200 Consecutive living donor nephrectomies”. Presented at the New England Surgical Society, Lake George, New York, September, 1997.
16. Hale DA, Shaffer D. “Vascular access patency in a predominantly diabetic population”. Presented at the New England Society of Vascular Surgery/New England Surgical Society Joint Scientific Session, Toronto, Canada, September, 1998.
17. Avihingsanon Y, Ma N, Wang C, Shaffer D, Pavlakis M, Strom T, Soares MP, Ferran C. “Upregulation of protective genes, heme oxygenase-1 and A20, is a marker of human renal allograft rejection”. Presented at ASN, Toronto, Canada, October, 2000.
18. Shaffer D., Basadonna GP., Harland RC., Salvalaggio P. Pancreas after kidney (PAK) transplantation: The current New England experience. New England Surgical Society, 2001 Annual Meeting, Providence, RI, Sept 2001.
19. Avihingsanon Y, Giraldo M, Mix, CH, Ma N, Shaffer D, Monaco AP, Uknis M, Ferran C, Stillman I, Pavlakis M, Strom TB. Intra-graft expression of TNF- α at time of implantation is associated with delayed graft function. Presented at American Transplant Congress, Washington, D.C., April 2002.
20. Ramanathan V, Goral S, Feurer ID, Kazancioglu R, Nylander W, van Buren D, Shaffer D, Helderman H. Screening asymptomatic diabetic patients for coronary artery disease prior to renal transplantation. Presented at American Transplant Congress, Washington, D.C., April, 2002

21. Shaffer D, Langone A, Goral S, Nylander WA, Helderman JH. A pilot study of a calcineurin-inhibitor free protocol for kidney transplant recipients with delayed graft function or marginal donor kidneys. Presented at SEOPF Annual Meeting, New Orleans, Sept 2002.
22. Moore D, Feurer I, Speroff T, Shaffer, D, Nylander W, Kizilisik T, Butler J, Awad J, Gorden D, Chari R, Wright J, Pinson CW. Survival and quality of life following organ transplantation in veterans. Presented at Association of VA Surgeons, Nashville, TN, May 2003.
23. Kizilisik AT, Feurer I, Wise P, Van Buren D, Hopkins J, Ray J, Nylander W, Shaffer D, Helderman JH, Speroff T, Pinson CW. Effects of organ source and diabetes on functional performance and health related quality of life after kidney transplantation. Presented at Association of VA Surgeons 27th Annual Surgical Symposium, Nashville, TN, May 2003.
24. Shaffer D, Nylander WA, Kizilisik AT, Langone A, Helderman JH. Obesity does not increase the risk of early complications following living donor kidney transplantation. Presented at American Transplant Congress, Washington D.C., June 2003.
25. Shaffer D, Nylander WA, Kizilisik AT, Helderman JH, Langone A. A pilot study of a calcineurin-inhibitor free protocol for kidney transplant recipients with delayed graft function or marginal donor kidneys. Presented at American Transplant Congress, Washington, D.C., June 2003.
26. Thomas, KT, Feurer ID, Salomon RM, Webb J, Hoy H, Shaffer, D, Speroff T, Pinson CW, Prevalence and co-occurrence of symptoms of anxiety and depression in solid organ transplant candidates and recipients. Presented at the Association of VA Surgeons 28th Annual Surgical Symposium, Richmond, VA, April 2004
27. Moore D, Feurer I, Speroff T, Shaffer D, Nylander W, Kizilisik T, Butler J, Awad J, Gorden D, Chari R, Wright J, Pinson CW. Is there racial disparity in outcomes following solid organ transplantation? Presented at the Association of VA Surgeons 28th Annual Surgical Symposium, Richmond, VA, April 2004.
28. Kizilisik AT, Ray JB, Nylander WA, Langone AJ, Helderman JH, Shaffer D. 40 years experience with kidney transplantation in a Veterans Administration Medical Center. Association of VA Surgeons 28th Annual Surgical Symposium. Richmond, VA, April 2004.
29. Kizilisik AT, Ray JB, Nylander WA, Langone AJ, Helderman JH, Shaffer D. Living donor kidney transplantation in a Veterans Administration Medical Center. Association of VA Surgeons 28th Annual Surgical Symposium, Richmond, VA, April 2004.

30. Nylander WA, Kim SB, Kizilisik AT, Shaffer D. Improvements in dialysis access survival with increasing use of arteriovenous fistulas in a Veterans Administration Medical Center. Association of VA Surgeons 28th Annual Surgical Symposium, Richmond, VA, April 2004.
31. Chuang P, Ray J, Edmundson B, Heins K, Bleecker E, Parikh C, Shaffer D, Nylander W, Kizilisik AT, Helderman JH, Langone AJ. Urinary tract infections increase the risk of mortality after renal transplantation. American Transplant Congress. Boston, MA. May 2004.
32. Shaffer D, Langone A, Nylander WA, Kizilisik AT, Helderman JH. Reduced BK virus nephropathy but increased acute rejection with mycophenolate mofetil dose reduction in kidney transplantation. Presented at the American Transplant Congress, Boston, MA, May 2004.
33. Crowe DO, Nylander WA, Helderman JH, Langone A, Kizilisik AT, Shaffer D. The effect of CREG matching on graft survival and HLA sensitization in renal recipients. Presented at the American Transplant Congress, Boston, MA, May 2004.
34. Schragger JJ, Kim SB, Nylander WA, Kizilisik AT, Shaffer D. Basilic vein transposition versus polytetrafluoroethylene as first line upper arm hemodialysis access in a veteran population. Presented at the Association of VA Surgeons Annual Meeting, Slat Lake City, UT, March 2005.
35. Langone AJ, Chuang P, Schaefer HM, Kizilisik T, Shaffer D, Helderman JH. The efficacy of ezetimibe in renal transplant recipients intolerant to or not reaching cholesterol lower goals with HMG Co-A reductase inhibitors. Presented at the American Transplant Congress, Seattle, WA, May 2005.
36. Woodle ES for Fugisawa Steroid Withdrawal Study Group. A randomized, double blinded, placebo controlled trial of early corticosteroid cessation versus chronic corticosteroid maintenance therapy. Presented at the American Transplant Congress, Seattle WA, May 2005.
37. Shaffer D, Kizilisik AT, Helderman JH, Langone AJ, Nylander WA, Feurer I, Schaefer HM. Calcineurin inhibitor (CNI) avoidance vs steroid avoidance following kidney transplantation: Post-operative complications. Presented at the World Transplant Congress, Boston, MA, July 2006
38. Shaffer D, Schaefer HM, Feurer I, Helderman JH, Langone AJ, Nylander WA, Kizilisik AT. Calcineurin inhibitor (CI) avoidance in kidney transplantation: A prospective, randomized, single-center trial of sirolimus versus tacrolimus with Thymoglobulin induction. Presented at the Work Transplant Congress, Boston, MA, July 2006.

- 39 Schaefer HM, Feurer I, Helderman JH, Langone AJ, Kizilisik AT, Nylander WA, Shaffer, D. Preliminary results of early steroid withdrawal in African American patients undergoing kidney transplantation. Presented at the World Transplant Congress, Boston, MA, July 2006.
- 40 Schaefer HM, Kizilisik AT, Feurer I, Langone AJ, Helderman JH, Nylander WA, Shaffer D. Short-term results under 3 different immunosuppressive regimens at one center. Presented at the World Transplant Congress, Boston, MA, July 2006.
- 41 Butler LL, Shaffer D, Feurer I, Langone AJ, Helderman JH, Kizilisik AT, Nylander WA, Schaefer HM. High prevalence of erectile dysfunction after kidney pancreas transplantation. Presented at the World Transplant Congress, Boston, MA, July 2006.
- 42 Chuang P, Buchanan C, Kizilisik T, Schaefer H, Chakravarty A, Helderman JH, Nylander W, Shaffer D, Langone AJ. A non randomized retrospective review of simulect versus thymoglobulin as induction agents for kidney transplantation at a single transplant center. Presented at the World Transplant Congress, Boston, MA, July 2006.
- 43 Langone AJ, Nitschke A, Helderman JH, Schaefer H, Nylander W, Shaffer D, Kizilisik T, Chuang P, Moeckel G, Fogo A. The utility of immunofluorescence and electron microscopy in renal transplant biopsies. Presented at the World Transplant Congress, Boston, MA, July 2006.
- 44 Langone AJ, Gray J, Buchanan C, Schaefer H, Helderman JH, Shaffer D, Kizilisik T, Nylander W, Chuang P. The rate and risk factors associated with bone fractures in renal transplant patients. Presented at the World Transplant Congress, Boston, MA, July 2006.
- 45 Chakravarty A, Schaefer H, Helderman JH, Shaffer D, Langone A. Conversion from tacrolimus to cyclosporine and withdrawal of mycophenolate mofetil in polyoma nephropathy patients. Presented at the World Transplant Congress, Boston, MA, July 2006
- 46 Russell RT, Dossett LA, Schaefer HM, Helderman JH, Nylander WA, Langone AJ, Shaffer D. Steroid avoidance in African American patients undergoing kidney transplantation: One year results. Presented at The American Society of Transplant Surgeons 8th Annual State of the Art Winter Symposium, Marco Island, FL, January 25-27, 2008.
- 47 Zaydfudim V, Schaefer HM, Nylander WA, Helderman JH, Langone AJ, Shaffer D. Impact of steroid avoidance on renal transplantation in morbidly obese recipients. Presented at The American Society of Transplant Surgeons 8th Annual State of the Art Winter Symposium, Marco Island, FL, January 25-27, 2008.

- 48 Schaefer HM, Sakai LM, Truscott CB, Feurer ID, Langone AJ, Helderman JH, Nylander WA, Shaffer D. Steroid avoidance in African American and Caucasian patients undergoing kidney transplantation. Presented at the American Transplant Congress, Toronto, Canada, May 2008.
- 49 Tseng C, Truscott CB, Zavala E, Feurer I, Shaffer D. A pharmacoeconomic analysis of alemtuzumab versus thymoglobulin induction in renal transplant recipients. Presented at the American Transplant Congress, Boston, June 2009
- 50 Shaffer D, Truscott CL, Tseng TY, Schaefer H. Alemtuzumab vs thymoglobulin induction in highly sensitized kidney re-transplant recipients. Presented at the American Transplant Congress, Boston, June 2009
- 51 Zaydfudim V, Moore DE, Feurer ID, Moore DR, Pinson CW, Shaffer D. Obesity does not affect long-term physical quality of life after kidney transplantation. Presented at the American Transplant Congress, Boston, June 2009