

REFERENCES

1. <http://www.npr.org/templates/story/story.php?storyId=4233669>. (National Public Radio: Transplant pioneers recall medical milestone.) Accessed June 28, 2016.
2. Long B, Koefman A: The emergency medicine approach to transplant complications. *Am J Emerg Med* 34: 2200, 2016. [PMID: 27645810]
3. https://srtr.transplant.hrsa.gov/annual_reports/2012/pdf/2012_SRTR_ADR.pdf. (2012 Annual Report of the U.S. Organ Procurement and Transplantation Network and the Scientific Registry of Transplant Recipients: Transplant Data 2012. Department of Health Services, Health Resources and Services Administration, Healthcare Systems Bureau, Division of Transplantation, Rockville, MD; United Network for Organ Sharing, Richmond, VA; University Renal Research and Education Association, Ann Arbor, MI.) Accessed March 12, 2019.
4. Zivkovic S, Abdel-Hamid H: Neurologic manifestations of transplant complications. *Neurol Clin* 28: 235, 2010. [PMID: 19932384]
5. Pullen LC: The opioid epidemic weaves its way through the transplant community. *Am J Transplant* 17: 2231, 2017. [PMID: 28846839]
6. Abecassis M, Bridges N, Clancy CJ, et al: Solid organ transplantation in older adults: Current status and future research. *Am J Transplant* 12: 2612, 2012. [PMID: 22958872]
7. Fishman JA: Infection in solid-organ transplant recipients. *N Engl J Med* 357: 2601, 2007. [PMID: 18094380]
8. Venkat K, Venkat A: Care of the renal transplant recipient in the emergency department. *Ann Emerg Med* 44: 330, 2004. [PMID: 15459617]
9. Unterman S, Zimmerman M, Tyo C, et al: A descriptive analysis of 1251 solid organ transplant visits to the emergency department. *West J Emerg Med* 10: 48, 2009. [PMID: 19561769]
10. Savitsky EA, Votey SR, Mebust DP, et al: A descriptive analysis of 290 liver transplant patient visits to an emergency department. *Acad Emerg Med* 7: 898, 2000. [PMID: 10958130]
11. Turtay MG, Oguzturk H, Aydin C, et al: A descriptive analysis of 188 liver transplant patient visits to an emergency department. *Eur Rev Med Pharmacol Sci* 16(Suppl 1): 3, 2012. [PMID: 22582476]
12. Tokalak I, Basaran O, Emiroglu R, et al: Problems in postoperative renal transplant recipients who present to the emergency unit: experience at one center. *Transplant Proc* 36: 184, 2004. [PMID: 15013341]
13. Couriel D, Caldera H, Champlin R, Komanduri K: Acute graft-versus-host disease: pathophysiology, clinical manifestations, and management. *Cancer* 101: 1936, 2004. [PMID: 15372473]
14. Gillis KA, Patel RK, Jardine AG: Cardiovascular complications after transplantation: treatment options in solid organ recipients. *Transplant Rev (Orlando)* 28: 47, 2014. [PMID: 24412041]
15. Glicklich D, Vohra P: Cardiovascular risk assessment before and after kidney transplantation. *Cardiol Rev* 22: 153, 2014. [PMID: 24896248]
16. Trzeciak S, Sharer R, Piper D, et al: Infections and severe sepsis in solid-organ transplant patients admitted from a university-based ED. *Am J Emerg Med* 22: 530, 2004. [PMID: 15666255]
17. Yin S, Trainor J, Powell EC: Serious bacterial infections in febrile outpatient pediatric heart transplant recipients. *Acad Emerg Med* 16: 942, 2009. [PMID: 19799569]
18. Halloran PF: Immunosuppressive drugs for kidney transplantation. *N Engl J Med* 351: 2715, 2004. [PMID: 15616206]
19. Wilck M, Fishman J: The challenges of infection in transplantation: donor-derived infections. *Curr Opin Organ Transplant* 10: 301, 2005.
20. Fishman JA, Rubin RH: Medical progress: infection in organ transplant recipients. *N Engl J Med* 338: 1741, 1998. [PMID: 9624195]
21. Tanphaichitr NT, Brennan DC: Infectious complications in renal transplant recipients. *Adv Ren Replace Ther* 7: 131, 2000. [PMID: 10782731]
22. George MJ, Snyderman DR, Werner BG, et al: The independent role of cytomegalovirus as a risk factor for invasive fungal disease in orthotopic liver transplant recipients. Boston Center for Liver Transplantation CMVIG-Study Group. CytoGam, MedImmune, Inc. Gaithersburg, Maryland. *Am J Med* 103: 106, 1997. [PMID: 9274893]
23. Fishman JA: Prevention of infection due to *Pneumocystis carinii*. *Antimicrob Agents Chemother* 42: 995, 1998. [PMID: 9593116]
24. Hadley S, Karchmer AW: Fungal infections in solid organ transplant recipients. *Infect Dis Clin N Am* 9: 1045, 1995. [PMID: 8747778]
25. Collins LA, Samore MH, Roberts MS, et al: Risk factors for invasive fungal infections complicating orthotopic liver transplantation. *J Infect Dis* 170: 644, 1994. [PMID: 8077723]
26. Issa NC, Fishman JA: Infectious complications of antilymphocyte therapies in solid organ transplantation. *Clin Infect Dis* 48: 772, 2009. [PMID: 19207081]
27. Kalil AC, Syed A, Rupp ME, et al: Is bacteremic sepsis associated with higher mortality in transplant recipients than in nontransplant patients? A matched case-control propensity-adjusted study. *Clin Infect Dis* 60: 216, 2015. [PMID: 25301215]
28. Green M: Introduction: Infections in solid organ transplantation. *Am J Transplant* 13(Suppl 4): 3, 2013. [PMID: 23464993]
29. Pelletier SJ, Crabtree TD, Gleason TG, et al: Characteristics of infectious complications associated with mortality after solid organ transplantation. *Clin Transplant* 14(4 Pt 2): 401, 2000. [PMID: 10946779]
30. Sawyer RG, Crabtree TD, Gleason TG, et al: Impact of solid organ transplantation and immunosuppression on fever, leukocytosis, and physiologic response during bacterial and fungal infections. *Clin Transplant* 13: 260, 1999. [PMID: 10383107]
31. Stolz D, Stulz A, Muller B, et al: BAL neutrophils, serum procalcitonin, and C-reactive protein to predict bacterial infection in the compromised host. *Chest* 132: 504, 2007. [PMID: 17573524]
32. Linden PK: Approach to the immunocompromised host with infection in the intensive care unit. *Infect Dis Clin North Am* 23: 535, 2009. [PMID: 19665082]
33. Flowers CR, Seidenfeld J, Bow EJ, et al: Antimicrobial prophylaxis and outpatient management of fever and neutropenia in adults treated for malignancy: American Society of Clinical Oncology clinical practice guideline. *J Clin Oncol* 31: 794, 2013. [PMID: 23319691]
34. Asberg A, Humar A, Rollag H, et al: Oral valganciclovir is non-inferior to intravenous ganciclovir for the treatment of cytomegalovirus disease in solid organ transplant recipients. *Am J Transplant* 7: 2106, 2007. [PMID: 17640310]
35. Hamandi B, Husain S, Humar A, Papadimitropoulos EA: Impact of infectious disease consultation on the clinical and economic outcomes of solid organ transplant recipients admitted for infectious complications. *Clin Infect Dis* 59: 1074, 2014. [PMID: 25009289]
36. Shidham VB, Chang CC, Shidham G, et al: Colon biopsies for evaluation of acute graft-versus-host disease (A-GVHD) in allogeneic bone marrow transplant patients. *BMC Gastroenterol* 3: 5, 2003. [PMID: 12697049]
37. Kato T, Yazawa K, Madono K, et al: Acute graft-versus-host disease in kidney transplantation: case report and review of literature. *Transplant Proc* 41: 3949, 2009. [PMID: 19917421]
38. Vargas-Diez E, Garcia-Diez A, Marin A, Fernandez-Herrera J: Life-threatening graft-versus-host disease. *Clin Dermatol* 23: 285, 2005. [PMID: 15896544]
39. Socié G, Blazar BR: Acute graft-versus-host disease: from the bench to the bedside. *Blood* 114: 4327, 2009. [PMID: 19713461]
40. Burt RK, Hess A, Deeg HJ: How to identify GVHD. *Contemp Oncol* 19: 34, 1993.
41. Atkinson K: Chronic graft-versus-host disease. *Bone Marrow Transplant* 5: 69, 1990. [PMID: 2178709]
42. Baird K, Pavletic SZ: Chronic graft versus host disease. *Curr Opin Hematol* 13: 426, 2006. [PMID: 17053454]
43. Smith SR, Haig AJ, Couriel DR: Musculoskeletal, neurologic, and cardiopulmonary aspects of physical rehabilitation in patients with chronic graft-versus-host disease. *Biol Blood Marrow Transplant* 23: 1083, 2014. [PMID: 25445027]
44. Flowers ME, Martin PJ: How we treat chronic graft-versus-host disease. *Blood* 125: 606, 2015. [PMID: 25398933]
45. Ferrara JL, Yanik G: Acute graft versus host disease: pathophysiology, risk factors, and prevention strategies. *Clin Adv Hematol Oncol* 3: 415, 2005. [PMID: 16167015]
46. Hettinga YM, Verdonck LF, Fijnheer R, et al: Anterior uveitis: a manifestation of graft-versus-host disease. *Ophthalmology* 114: 794, 2007. [PMID: 17187864]
47. Jacobsohn DA, Chan GW, Chen AR: Current advances in the treatment of acute and chronic graft-versus-host disease. *Blood Marrow Transplant Rev* 17: 4, 2007.
48. Schroeder ML: Transfusion-associated graft-versus-host disease. *Br J Haematol* 117: 275, 2002. [PMID: 11972509]
49. Frey N, Porter D: Graft-versus-host disease after donor leukocyte infusions: presentation and management. *Best Pract Res Clin Haematol* 21: 206, 2008. [PMID: 18503987]
50. Engels EA, Pfeiffer RM, Fraumeni JF Jr, et al: Spectrum of cancer risk among US solid organ transplant recipients. *JAMA* 306: 1891, 2011. [PMID: 22045767]
51. Styczynski J, Gil L, Tridello G, et al: Response to rituximab-based therapy and risk factor analysis in Epstein Barr virus related lymphoproliferative disorder after hematopoietic stem cell transplant in children and adults: a study from the Infectious Diseases Working Party of the European Group for Blood and Marrow Transplantation. *Clin Infect Dis* 57: 794, 2013. [PMID: 23771985]
52. Dierickx D, Habermann TM: Post-transplantation lymphoproliferative disorder in adults. *N Engl J Med* 378: 549, 2018. [PMID: 29414277]
53. Landgren O, Gilbert ES, Rizzo JD, et al: Risk factors for lymphoproliferative disorders after allogeneic hematopoietic cell transplantation. *Blood* 113: 4992, 2009. [PMID: 19264919]
54. Walker RC, Marshall WF, Strickler JG, et al: Pretransplantation assessment of the risk of lymphoproliferative disorder. *Clin Infect Dis* 20: 1346, 1995. [PMID: 7620022]
55. Cockfield SM: Identifying the patient at risk for post-transplant lymphoproliferative disorder. *Transpl Infect Dis* 3: 70, 2001. [PMID: 11395972]
56. Opelz G, Dohler B: Lymphomas after solid organ transplantation: a collaborative transplant study report. *Am J Transplant* 4: 222, 2004. [PMID: 14974943]
57. Dierickx D, Tousseyn T, Sagaert X, et al: Single-center analysis of biopsy-confirmed posttransplant lymphoproliferative disorder: incidence, clinicopathological characteristics and prognostic factors. *Leuk Lymphoma* 54: 2433, 2013. [PMID: 23442063]
58. Bartlett ST, Farney AC, Jarrell BE, et al: Kidney transplantation at the University of Maryland. *Clin Transpl* 1998: 177, 1998. [PMID: 10503096]
59. Pham PTT, Nast CC, et al: Diagnosis and therapy of graft dysfunction. In: Periera BJG, Sayegh MH, Blake P (eds): *Chronic Kidney Disease, Dialysis and Transplantation*, 2nd ed. Philadelphia, PA: Elsevier Saunders; 2005.
60. Brown PD: Urinary tract infections in renal transplant recipients. *Curr Infect Dis Rep* 4: 525, 2002. [PMID: 12433329]
61. Munoz P: Management of urinary tract infection and lymphocytosis in renal transplant recipients. *Clin Infect Dis* 33(Suppl 1): S53, 2001. [PMID: 11389523]

62. Gritsch HA, Rosenthal JT: The transplant operation and its surgical complications. In: Danovitch GM (ed): *Handbook of Transplantation*, 3rd ed. Philadelphia, PA: Lippincott Williams & Wilkins; 2001.
63. Patel NH, Jindal RM, Wilkin T, et al: Renal arterial stenosis in renal allografts: retrospective study of predisposing factors and outcome after percutaneous transluminal angioplasty. *Radiology* 219: 663, 2001. [PMID: 11376251]
64. Rengel M, Gomes-Da-Silva G, Inchaustegui L, et al: Renal artery stenosis after kidney transplantation: diagnostic and therapeutic approach. *Kidney Int* 54(Suppl 68): S99, 1998.
65. Akgun H, Gonlusen G, Cartwright J Jr, et al: Are gadolinium-based contrast media nephrotoxic? *Arch Pathol Lab Med* 130: 1354, 2006. [PMID: 16948524]
66. Chapman JR, O'Connell PJ, Nankivell BJ: Chronic renal allograft dysfunction. *J Am Soc Nephrol* 16: 3015, 2005. [PMID: 16120819]
67. Akbar SA, Jafri SZ, Amendola MA, et al: Complications of renal transplantation. *Radiographics* 25: 1335, 2005. [PMID: 16160115]
68. Blair JE, Kusne S: Bacterial, mycobacterial, and protozoal infections after liver transplantation: part I. *Liver Transpl* 11: 1452, 2005. [PMID: 16315310]
69. Boraschi P, Donati F: Complications of orthotopic liver transplantation: imaging findings. *Abdom Imaging* 29: 189, 2004. [PMID: 15290945]
70. Nghiem HV, Tran K, Winter TC 3rd, et al: Imaging of complications in liver transplantation. *Radiographics* 16: 825, 1996. [PMID: 8835974]
71. Potthoff A, Hahn A, Kubicka S, et al: Diagnostic value of ultrasound in detection of biliary tract complications after liver transplantation. *Hepat Mon* 13: e6003, 2013. [PMID: 23483295]
72. Krok KL, Cárdenas A, Thuluvath PJ: Endoscopic management of biliary complications after liver transplantation. *Clin Liver Dis* 14: 359, 2010. [PMID: 20682241]
73. O'Connor TP, Lewis WD, Jenkins RL: Biliary tract complications after liver transplantation. *Arch Surg* 130: 312, 1995. [PMID: 7887800]
74. Zoepf T, Maldonado-Lopez EJ, Hilgard P, et al: Balloon dilatation vs. balloon dilatation plus bile duct endoprostheses for treatment of anastomotic biliary strictures after liver transplantation. *Liver Transpl* 12: 88, 2006. [PMID: 16382450]
75. Verdonk RC, Buis CI, Porte RJ, et al: Anastomotic biliary strictures after liver transplantation: causes and consequences. *Liver Transpl* 12: 726, 2006. [PMID: 16628689]
76. Santacruz JF, Mehta AC: Airway complications and management after lung transplantation ischemia, dehiscence, and stenosis. *Proc Am Thorac Soc* 6: 79, 2009. [PMID: 19131533]
77. Van De Wauwer C, Van Raemdonck D, Verleden GM, et al: Risk factors for airway complications within the first year after lung transplantation. *Eur J Cardiothorac Surg* 31: 703, 2007. [PMID: 17306556]
78. Machuzak M, Santacruz JF, Gildea T, Murthy SC: Airway complications after lung transplantation. *Thorac Surg Clin* 25: 55, 2015. [PMID: 25430430]
79. Whelan TP, Hertz MI: Allograft rejection after lung transplantation. *Clin Chest Med* 26: 599, 2005. [PMID: 16263399]
80. Taylor JL, Palmer SM: Critical care perspective on immunotherapy in lung transplantation critical care perspective. *J Intensive Care Med* 21: 327, 2006. [PMID: 17095497]
81. Granton J: Update of early respiratory failure in the lung transplant recipient. *Curr Opin Crit Care* 12: 19, 2006. [PMID: 16394779]
82. Shitrit D, Valdsislav P, Grubstein A, Bendayan D, Cohen M, Kramer MR: Accuracy of virtual bronchoscopy for grading tracheobronchial stenosis: correlation with pulmonary function test and fiberoptic bronchoscopy. *Chest* 128: 3545, 2005. [PMID: 16304311]
83. Hasegawa T, Iacono AT, Orons PD, Yousem SA: Segmental nonanastomotic bronchial stenosis after lung transplantation. *Ann Thorac Surg* 69: 1020, 2000. [PMID: 10800787]
84. Moreno P, Alvarez A, Algar FJ, et al: Incidence, management and clinical outcomes of patients with airway complications following lung transplantation. *Eur J Cardiothorac Surg* 34: 1198, 2008. [PMID: 18824370]
85. Anaya-Ayala JE, Loebe M, Davies MG: Endovascular management of early lung transplant-related anastomotic pulmonary artery stenosis. *J Vasc Interv Radiol* 26: 878, 2015. [PMID: 25851200]
86. Waurick PE, Kleber FX, Ewert R, Pfitzmann R, Bruch L, Hummel M: Pulmonary artery stenosis 5 years after single lung transplantation in primary pulmonary hypertension. *J Heart Lung Transplant* 18: 1243, 1999. [PMID: 10612386]
87. Banerjee SK, Santhanakrishnan K, Shapiro L, Dunning J, Tsui S, Parmar J: Successful stenting of anastomotic stenosis of the left pulmonary artery after single lung transplantation. *Eur Respir Rev* 20: 59, 2011. [PMID: 21357894]
88. Lumsden AB, Anaya-Ayala JE, Birnbaum I, et al: Robot-assisted stenting of a high-grade anastomotic pulmonary artery stenosis following single lung transplantation. *J Endovasc Ther* 17: 612, 2010. [PMID: 20939718]
89. González-Fernández C, González-Castro A, Rodríguez-Borregán JC, et al: Pulmonary venous obstruction after lung transplantation diagnostic advantages of transesophageal echocardiography. *Clin Transplant* 23: 975, 2009. [PMID: 19732099]
90. Ferdinande P, Bruyninckx F, Van Raemdonck D, Daenen W, Verleden G: Phrenic nerve dysfunction after heart-lung and lung transplantation. *J Heart Lung Transplant* 23: 105, 2004. [PMID: 14734134]
91. Sano Y, Oto T, Toyooka S, Yamane M, Okazaki M, Date H: Phrenic nerve paralysis following lung transplantation. *Kyobu Geka* 60: 993, 2007. [PMID: 17926903]
92. Hertz MI, Aurora P, Christie JD, et al: Scientific Registry of the International Society for Heart and Lung Transplantation: introduction to the 2009 Annual Reports. *J Heart Lung Transplant* 28: 989, 2009. [PMID: 19782281]
93. Martinu T, Chen DF, Palmer SM: Acute rejection and humoral sensitization in lung transplant recipients. *Proc Am Thorac Soc* 6: 54, 2009. [PMID: 19131531]
94. Martinu T, Pavlisko EN, Chen DF, Palmer SM: Acute allograft rejection: cellular and humoral processes. *Clin Chest Med* 32: 295, 2011. [PMID: 21511091]
95. Yusen RD, Edwards LB, Kucheryavaya AY, et al: The Registry of the International Society for Heart and Lung Transplantation: thirty-second official adult lung and heart-lung transplantation report—2015; focus theme: early graft failure. *J Heart Lung Transplant* 34: 1264, 2015. [PMID: 26454740]
96. Volpin R, Angeli P, Galio A, et al: Comparison between two high-dose methylprednisolone schedules in the treatment of acute hepatic cellular rejection in liver transplant recipients: a controlled clinical trial. *Liver Transpl* 8: 527, 2002. [PMID: 12037783]
97. Trulock E, Christie J, Edwards L, et al: Registry of the International Society for Heart and Lung Transplantation: Twenty-fourth Official Adult Lung and Heart-Lung Transplantation Report—2007. *J Heart Lung Transplant* 26: 782, 2007. [PMID: 17692782]
98. Budino B, Martu E, Diaz S, et al: Autopsy-determined causes of death in solid organ transplant recipients. *Transplant Proc* 36: 787, 2004. [PMID: 15110664]
99. Salvadori M, Berton E: What's new in clinical solid organ transplantation by 2013. *World J Transplant* 4: 243, 2014. [PMID: 25540734]
100. Burke MN, McGinn AL, Homans DC, et al: Evidence for functional sympathetic reinnervation of left ventricle and coronary arteries after orthotopic cardiac transplantation in humans. *Circulation* 91: 72, 1995. [PMID: 7646628]
101. Squires RW, Leung TC, Cyr NS, et al: Partial normalization of the heart rate response to exercise after cardiac transplantation: frequency and relationship to exercise capacity. *Mayo Clin Proc* 77: 1295, 2002. [PMID: 12479515]
102. Wilson RF, Johnson TH, Haidet GC, et al: Sympathetic reinnervation of the sinus node and exercise hemodynamics after cardiac transplantation. *Circulation* 101: 2727, 2000. [PMID: 10851211]
103. Gallego-Page JC, Segovia J, Alonso-Pulpón L, et al: Re-innervation after heart transplantation: a multidisciplinary study. *J Heart Lung Transplant* 23: 674, 2004. [PMID: 15366426]
104. Panda A, Vanathi M, Kumar A, et al: Corneal graft rejection. *Surv Ophthalmol* 52: 375, 2007. [PMID: 17574064]
105. Williams K, Esterman A, Bartlett C, et al: How effective is penetrating corneal transplantation? Factors influencing long-term outcome in multivariate analysis. *Transplantation* 81: 896, 2006. [PMID: 16570014]
106. Wagoner MD, Al-Swailem SA, Sutphin JE, et al: Bacterial keratitis after penetrating keratoplasty: incidence, microbiological profile, graft survival, and visual outcome. *Ophthalmology* 114: 1073, 2007. [PMID: 17275089]
107. Kanavi MR, Foroutan AR, Kamel MR, et al: Candida interface keratitis after deep anterior lamellar keratoplasty: clinical, microbiologic, histopathologic, and confocal microscopic reports. *Cornea* 26: 913, 2007. [PMID: 17721287]