



Stephan Busque

Professor of Surgery (Abdominal Transplantation), and by courtesy, of Medicine (Nephrology)

Surgery - Abdominal Transplantation

CLINICAL OFFICE (PRIMARY)

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Bio

CLINICAL FOCUS

- General Surgery
- Kidney and Pancreas Transplantation
- Liver Transplantation

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Surgery - Abdominal Transplantation
- Professor - University Medical Line (By courtesy), Medicine - Nephrology

ADMINISTRATIVE APPOINTMENTS

- Director Adult Kidney and Pancreas Transplant Program, Stanford University School of Medicine, (2001- present)
- Member, Stanford Diabetes Research Center, (2018- present)

PROFESSIONAL EDUCATION

- Fellowship: California Pacific Medical Center (1995) CA
- Residency: University of Montreal (1991) Canada
- Medical Education: University of Montreal (1986) Canada
- Internship: University of Montreal (1987) Canada
- Board Certification: General Surgery, American Board of Surgery (1996)
- Board Certification, American Board of Surgery, General Surgery (1996)
- M. Sc., Mc Gill University, Transplant Immunology (1995)
- Fellow, California Pacific Med Center, Multi-Organ Transplantation (1995)
- FRCSC, University of Montreal, General Surgery (1991)
- MD, University of Montreal (1986)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research interest is centered on the improvement of clinical immunosuppression. This involves the evaluation of new immunosuppressive drugs that are potentially more efficacious and/or less toxic or better monitoring of the effect of these drugs. We are participating in the drug development process from phase 1 to phase 3 studies. I participate to trial design and data analysis of some of these trials. The ultimate goal is to achieve tolerance, a state that would obviate the need for any drugs. I am a clinical investigator in a multidisciplinary trial aimed at inducing tolerance after kidney transplantation. My other interests include the development and study of efficacy of strategies to desensitized organ transplant recipients and expanding our capabilities to tailor the immunosuppression needs of specific patients through new immune-monitoring tests. Ultimately these research projects are aimed at improving the outcomes of organ transplant recipients.

CLINICAL TRIALS

- Delayed Blood Stem Transplantation in HLA Matched Kidney Transplant Recipients to Eliminate Immunosuppressive Drugs., Recruiting
- Persentin study , Recruiting
- Combined Blood Stem Cell and Kidney Transplant of One Haplotype Match Living Donor Pairs., Not Recruiting
- Haplo Matched Living Donor Tolerance Induction study (CIRM), Not Recruiting

Publications

PUBLICATIONS

- **Machine Learning Model for Predicting 90-Day Graft Failure in Pediatric Liver Transplantation Using Stability-Selected Pre-Transplant Factors**
Badshah, J., Lee, R., York, T., Pham, T., Melcher, M., Busque, S., Kirchner, V.
ELSEVIER SCIENCE INC.2026
- **Initial Experience with Routine Post-Operative Contrast Enhanced Ultrasound Following Pediatric Whole and Partial Deceased Donor Liver Transplant**
York, T., Attia, A., Nakayama, T., Yu, J., Fu, S., Hanna, K., Ahn, D., Badshah, J., Ebel, N., Alrabadi, L., Czepiel, K., Melcher, M., Pham, et al
ELSEVIER SCIENCE INC.2026
- **A Modified Tolerance Induction Regimen Incorporating Total Lymphoid Irradiation, Anti-Thymocyte Globulin, and Low-Dose Total Body Irradiation Achieves Sustained Mixed Chimerism and Immunosuppression Withdrawal or Minimization to Mycophenolate Mofetil in Haplotype-Matched Kidney Transplant Recipients**
Busque, S., Meyer, E., Scandling, J., Pham, T., Hoppe, R., Sheehan, K., Jensen, K., Manohar, M., Panu, L., Lowsky, R.
ELSEVIER SCIENCE INC.2025: S791
- **Donor-Targeted Anti-HLA-A2 Antibody Shows Nanogram-Level Efficacy in a Novel GVHD Mouse Model.** *bioRxiv : the preprint server for biology*
Niizuma, K., Chang, A. H., Kim, J. S., Busque, S., Majeti, R., Nakauchi, H., Nakauchi, Y.
2025
- **Advocating for collaboration among key partners to promote diversity in clinical studies amid policy challenges in the United States of America.** *Trials*
Byiringiro, S., Garcia, J. K., Farrell, N., Ogungbe, B., Barsha, R. A., Miller, H. N., Whitaker, E., Wang, P., Rosa, W. E., Bierer, B. E., Himmelfarb, C. R., Michos, E. D., De Lombaert, et al
2025; 26 (1): 117
- **Characterization of immune phenotypes in peripheral blood of adult renal transplant recipients using mass cytometry (CyTOF).** *ImmunoHorizons*
Kowli, S., Minocherhomji, S., Martinez, O. M., Busque, S., Lebrec, H., Maecker, H. T.
2025; 9 (4)

- **Induction of Immune Tolerance in Living Related HLA-Matched Kidney Transplantation: A Phase 3 Randomized Clinical Trial.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
Kaufman, D. B., Akkina, S. K., Stegall, M. D., Piper, J. B., Gaber, A. O., Asch, W. S., Busque, S., Stites, E., De Vera, M., Srinivas, T. R., Alonso, D., Shah, A., Patel, et al
2025
- **Meeting Report: The Sixth International Sam Strober Workshop on Clinical Immune Tolerance.** *Transplantation*
Stark, H., Ho, Q. Y., Cross, A., Alessandrini, A., Bertaina, A., Brennan, D., Busque, S., Demetris, A., Devey, L., Fruhwirth, G., Fuchs, E., Friend, P., Geissler, et al
2025
- **Nested Semi-Transparent Isosurface Simulated Volume-Rendering (NESTIS-VR) - An efficient on-device rendering approach for Augmented Reality headsets increasing surgeon confidence of kidney donor arterial anatomy.** *Computers in biology and medicine*
Necker, F. N., Melcher, M. L., Busque, S., Leuze, C. W., Ghanouni, P., Le Castillo, C., Nguyen, E., Daniel, B. L.
2024; 183: 109267
- **The Medical Costs of Determining Eligibility and Waiting for a Kidney Transplantation.** *Medical care*
Xu, K., Dor, A., Mohanty, S., Han, J., Parvathinathan, G., Braggs-Gresham, J. L., Held, P. J., Roberts, J. P., Vaughan, W., Tan, J. C., Scandling, J. D., Chertow, G. M., Busque, et al
2024
- **Defining tumor-associated macrophages subpopulation in intrahepatic cholangiocarcinoma as prognostic and therapeutic targets**
Badshah, J., Aliwaisi, A., Subramanian, S., Hong, S., Teavir, W., Sasaki, K., Melcher, M., Bonham, C., Pham, T., Gallo, A., Esquivel, C., Busque, S., Reitsma, et al
LIPPINCOTT WILLIAMS & WILKINS.2023: 122-123
- **Addition of a Single Low Dose of Total Body Irradiation (tbi) to a Total Lymphoid Irradiation (tli) and Anti-Thymocyte Globulin (atg) Conditioning Regimen Improves Mixed Hematopoietic Engraftment in a Tolerance Induction Protocol After Hla-Haplo-Matched (hhm) Living Donor Kidney Transplantation**
Busque, S., Scandling, J., Lowsky, R., Pham, T., Hoppe, R., Jensen, K., Shori, A., Kuo, G., Wu, H., Gilfanova, R., Meyer, E., Strober, S.
ELSEVIER SCIENCE INC.2023: S448
- **Obinutuzumab Effectively Depletes Key B-cell Subsets in Blood and Tissue in End-stage Renal Disease Patients.** *Transplantation direct*
Looney, C. M., Schroeder, A., Tavares, E., Garg, J., Schindler, T., Vincenti, F., Redfield, R. R., Jordan, S. C., Busque, S., Woodle, E. S., Khan, J., Eastham, J., Micallef, et al
2023; 9 (2): e1436
- **IDENTIFYING NOVEL GENE TARGETS FOR DIAGNOSIS AND TREATMENT OF HCC IN ASIAN AND CAUCASIAN POPULATIONS BASED ON WHOLE GENOME SEQUENCING**
Hong, S., Badshah, J., Aliwaisi, A., Sasaki, K., Pruett, T., Melcher, M., Bonham, C., Gallo, A., Martinez, O., Krams, S., Pham, K., Busque, S., Reitsma, et al
ELSEVIER SCIENCE INC.2023: S28
- **Achievement of Persistent Mixed Chimerism in Recipients of Matched and Mismatched Living Donor Kidney Transplants in a Tolerance Induction Protocol**
Scandling, J., Busque, S., Lowsky, R., Pham, T., Hoppe, R., Jensen, K., Shori, A., Wu, H., Pawar, R., Engleman, E., Meyer, E., Strober, S.
LIPPINCOTT WILLIAMS & WILKINS.2022: S44
- **Cellular and humoral immune response to SARS-CoV-2 vaccination and booster dose in immunosuppressed patients: An observational cohort study.** *Journal of clinical virology : the official publication of the Pan American Society for Clinical Virology*
Yang, L. M., Costales, C., Ramanathan, M., Bulterys, P. L., Murugesan, K., Schroers-Martin, J., Alizadeh, A. A., Boyd, S. D., Brown, J. M., Nadeau, K. C., Nadimpalli, S. S., Wang, A. X., Busque, et al
2022; 153: 105217
- **Allocation Based on Acuity Circles: Effects on Pediatric Liver Allocation.**
Kim, M., Kim, M. H., Gallo, A., Pham, T., Melcher, M. L., Busque, S., Esquivel, C., Bonham, C.
WILEY.2022: 475-476
- **Allocation Based on Acuity Circles Decreases Waiting Time for Liver Transplant Patients.**
Kim, M. H., Sasaki, K., Gallo, A., Pham, T., Melcher, M. L., Busque, S., Esquivel, C., Bonham, C.
WILEY.2022: 829-830

- **Achievement of Persistent Mixed Chimerism in Recipients of Matched and Mismatched Living Donor Kidney Transplants in a Tolerance Induction Protocol.**
Scandling, J. D., Busque, S., Lowsky, R., Pham, T., Hoppe, R., Jensen, K., Shori, A., Wu, H., Pawar, R., Engleman, E., Meyer, E., Strober, S.
WILEY.2022: 408
- **Trends in Cost Attributable to Kidney Transplantation Evaluation and Waiting List Management in the United States, 2012-2017.** *JAMA network open*
Cheng, X. S., Han, J., Braggs-Gresham, J. L., Held, P. J., Busque, S., Roberts, J. P., Tan, J. C., Scandling, J. D., Chertow, G. M., Dor, A.
2022; 5 (3): e221847
- **SARS-CoV-2 Neutralizing Monoclonal Antibodies for the Treatment of COVID-19 in Kidney Transplant Recipients.** *Kidney360*
Wang, A. X., Busque, S., Kuo, J., Singh, U., Roeltgen, K., Pinsky, B. A., Chertow, G. M., Scandling, J. D., Lenihan, C. R.
2022; 3 (1): 133-143
- **Development of immunosuppressive myeloid cells to induce tolerance in solid organ and hematopoietic cell transplant recipients.** *Blood advances*
Jensen, K. P., Hongo, D., Ji, X., Zheng, P., Pawar, R. D., Wu, H., Busque, S., Scandling, J. D., Shizuru, J. A., Lowsky, R., Shori, A., Dutt, S., Waters, et al
2021
- **MDR-101-MLK-MERCURY Kidney Transplant Tolerance Study Update**
Kaufman, D., Akkina, S., Stegall, M., Piper, J., Gaber, A. O., Marin, E., Busque, S., Alonso, D., De Vera, M., Shah, A., Patel, A., Chavin, K., Laftavi, et al
WILEY.2021: 406-407
- **Single Dose Rituximab and Anti-Thymocyte Globulin (ATG) Induction in Hypersensitized Kidney Transplant Recipients**
Wang, A. X., Wang, U., Busque, S., Lenihan, C. R.
WILEY.2020: 905-6
- **Mixed chimerism and acceptance of kidney transplants after immunosuppressive drug withdrawal.** *Science translational medicine*
Busque, S. n., Scandling, J. D., Lowsky, R. n., Shizuru, J. n., Jensen, K. n., Waters, J. n., Wu, H. H., Sheehan, K. n., Shori, A. n., Choi, O. n., Pham, T. n., Fernandez Vina, M. A., Hoppe, et al
2020; 12 (528)
- **Influence of Immunosuppression on Seroconversion Against SARS-Cov-2 in Two Kidney Transplant Recipients.** *Transplant infectious disease : an official journal of the Transplantation Society*
Wang, A. X., Quintero Cardona, O. n., Ho, D. Y., Busque, S. n., Lenihan, C. R.
2020: e13423
- **Safety, pharmacokinetics, and pharmacodynamic activity of obinutuzumab, a type 2 anti-CD20 monoclonal antibody for the desensitization of candidates for renal transplant.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
Redfield, R. R., Jordan, S. C., Busque, S., Vincenti, F., Woodle, E. S., Desai, N., Reed, E. F., Tremblay, S., Zachary, A. A., Vo, A. A., Formica, R., Schindler, T., Tran, et al
2019
- **Persistent Mixed Chimerism, Immune Reconstitution, and Tolerance in Recipients of HLA Matched Kidney and Hematopoietic Cell Transplants.**
Busque, S., Scandling, J., Lowsky, R., Shizuru, J., Meyer, E., Jensen, K., Shori, A., Hoppe, R., Engleman, E., Pham, T., Strober, S.
WILEY.2019: 348-49
- **Impact of Immunosuppressive Drug Withdrawal on Persistent Mixed Chimerism in Recipients of HLA Haplo-Identical Kidney and Hematopoietic Cell Transplants.**
Busque, S., Scandling, J., Lowsky, R., Shizuru, J., Meyer, E., Jensen, K., Shori, A., Hoppe, R., Engleman, E., Strober, S.
WILEY.2019: 348
- **IE-1 Specific T Cell Receptor Repertoire Diversity and Protection against CMV Reactivation.**
Perez, M., Rubelt, F., Busque, S., Esquivel, C. O., Krams, S. M., Bestard, O., Martinez, O. M.
WILEY.2019: 640-41
- **Combined Deceased Donor Parathyroid and Kidney Transplantation - An Underutilized Approach for ESRD Patients with Permanent Hypoparathyroidism**

Lee, L., Pan, J., Vasa, P., Berry, G., Lenihan, C., Busque, S.
WILEY.2019: 56

- **A NOVEL FLOW CYTOMETRIC ASSAY TO SIMULTANEOUSLY DETECT ATG CONCENTRATION AND CYTOTOXIC EFFECT IN RENAL TRANSPLANT PATIENT**
Chen, G., Lin, L., Busque, S., Vina, M.
ELSEVIER SCIENCE INC.2018: 135–36
- **Improved Short-Term Survival in HCV Seropositive Kidney Transplant Recipients during the Daa Era in the United States**
Wong, K., Cholankeril, G., Gadiparthi, C., Somasundar, P., Busque, S., Esquivel, C. O., Ahmed, A.
WILEY.2018: 140A
- **A New Approach to Kidney Waitlist Management in the Kidney Allocation System Era: Pilot Implementation and Evaluation.** *Clinical transplantation*
Cheng, X. S., Busque, S., Lee, J., Discipulo, K., Hartley, C., Tulu, Z., Scandling, J. D., Tan, J. C.
2018: e13406
- **Native Kidney Cytomegalovirus Nephritis and Cytomegalovirus Prostatitis in a Kidney Transplant Recipient.** *Transplant infectious disease : an official journal of the Transplantation Society*
Tan, S. K., Cheng, X. S., Kao, C., Weber, J., Pinsky, B. A., Gill, H. S., Busque, S., Subramanian, A. K., Tan, J. C.
2018: e12998
- **Efficacy and Safety of a Tofacitinib-based Immunosuppressive Regimen After Kidney Transplantation: Results From a Long-term Extension Trial** *TRANSPLANTATION DIRECT*
Busque, S., Vincenti, F. G., Silva, H., O'Connell, P. J., Yoshida, A., Friedewald, J. J., Steinberg, S. M., Budde, K., Broeders, E. N., Kim, Y., Hahn, C. M., Li, H., Chan, et al
2018; 4 (9)
- **Efficacy and Safety of a Tofacitinib-based Immunosuppressive Regimen After Kidney Transplantation: Results From a Long-term Extension Trial.** *Transplantation direct*
Busque, S., Vincenti, F. G., Tedesco Silva, H., O'Connell, P. J., Yoshida, A., Friedewald, J. J., Steinberg, S. M., Budde, K., Broeders, E. N., Kim, Y. S., Hahn, C. M., Li, H., Chan, et al
2018; 4 (9): e380
- **Relationship Between Mixed Chimerism and Acceptance of HLA-matched and -Mismatched Kidney Transplants after Withdrawal of Immunosuppressive Drugs**
Busque, S., Scandling, J., Lowsky, R., Shizuru, J., Jensen, K., Shori, A., Hoppe, R., Engleman, E., Meyer, E., Strober, S.
LIPPINCOTT WILLIAMS & WILKINS.2018: S393
- **Relationship between Mixed Chimerism and Acceptance of HLA-Matched and Mismatched Kidney Transplants after Withdrawal of Immunosuppressive Drugs.**
Scandling, J., Busque, S., Lowsky, R., Shizuru, J., Jensen, K., Shori, A., Engleman, E., Meyer, E., Hoppe, R., Strober, S.
WILEY.2018: 470
- **Changes in Phenotype, Immune Suppressive, Function, and Gene Expression of Myeloid Derived Suppressor Cells in Patients Given Combined Kidney and Hematopoietic Cell Transplants in a Tolerance Protocol.**
Jensen, K., Zheng, P., Xuhuai, J., Saraswathula, A., Scandling, J., Busque, S., Shizuru, J., Lowsky, R., Shori, A., Maecker, H., Engleman, E., Meyer, E., Strober, et al
WILEY.2018: 495–96
- **Macrochimerism and clinical transplant tolerance.** *Human immunology*
Scandling, J. D., Busque, S., Lowsky, R., Shizuru, J., Shori, A., Engleman, E., Jensen, K., Strober, S.
2018
- **Relationship Between Mixed Chimerism and Tolerance in HLA-Matched and -Mismatched Recipients of Kidney and Hematopoietic Cell Transplants**
Busque, S., Scandling, J., Shizuru, J., Lowsky, R., Shori, A., Kent, J., Engleman, E., Strober, S.
WILEY.2017: 276
- **A Cost Analysis of Tolerance Induction for Two-Haplotype Match Kidney Transplant Recipients** *AMERICAN JOURNAL OF TRANSPLANTATION*
Erickson, K. F., Winkelmayr, W. C., Busque, S., Lowsky, R., Scandling, J. D., Strober, S.

2016; 16 (1): 371–73

- **The Association of Predonation Hypertension with Glomerular Function and Number in Older Living Kidney Donors** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Lenihan, C. R., Busque, S., Derby, G., Blouch, K., Myers, B. D., Tan, J. C.
2015; 26 (6): 1261-1267
- **Evaluation of the Effect of Tofacitinib Exposure on Outcomes in Kidney Transplant Patients** *AMERICAN JOURNAL OF TRANSPLANTATION*
Vincenti, F., Silva, H. T., Busque, S., O'Connell, P. J., Russ, G., Budde, K., Yoshida, A., Tortorici, M. A., Lamba, M., Lawendy, N., Wang, W., Chan, G.
2015; 15 (6): 1644-1653
- **Identification of miRNAs Associated With Induced Tolerance to Allografts**
Vitalone, M., Wei, L., Esquivel, C., Busque, S., Martinez, O., Krams, S.
WILEY-BLACKWELL.2015
- **Stable and Unstable Chimerism During Immunosuppressive Drug Withdrawal in Tolerant Recipients of HLA Matched Combined Kidney and Hematopoietic Cell Transplants**
Pham, T., Busque, S., Scandling, J., Shizuru, J., Asha, S., Strober, S.
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- **Chimerism, Graft Survival, and Withdrawal of Immunosuppressive Drugs in HLA Matched and Mismatched Patients After Living Donor Kidney and Hematopoietic Cell Transplantation.** *American journal of transplantation*
Scandling, J. D., Busque, S., Shizuru, J. A., Lowsky, R., Hoppe, R., Dejbakhsh-Jones, S., Jensen, K., Shori, A., Strober, J. A., Lavori, P., Turnbull, B. B., Engleman, E. G., Strober, et al
2015; 15 (3): 695-704
- **Longitudinal study of living kidney donor glomerular dynamics after nephrectomy** *JOURNAL OF CLINICAL INVESTIGATION*
Lenihan, C. R., Busque, S., Derby, G., Blouch, K., Myers, B. D., Tan, J. C.
2015; 125 (3): 1311-1318
- **Effects of Hypertension On Glomerular Function and Number in Living Kidney Donors.**
Lenihan, C., Busque, S., Myers, B., Tan, J.
LIPPINCOTT WILLIAMS & WILKINS.2014: 483
- **Early Excellent Outcomes of Flow Cross-Match Negative Kidney Transplant Recipients With Pre-Formed IgG DSA, C1q Negative With or Without Peri-Operative IVIg Infusion.**
Busque, S., Yabu, J., Melcher, M., Gallo, A., Kong, S., Makki, T., Burke-Barber, K., Scandling, J., Tyan, D.
LIPPINCOTT WILLIAMS & WILKINS.2014: 512
- **Tolerance, Mixed Chimerism, and Graft Survival in HLA Matched and Mismatched Recipients of Kidney and Hematopoietic Cell Transplants.**
Scandling, J., Busque, S., Shizuru, J., Lowsky, R., Dejbakhsh-Jones, S., Jensen, K., Shori, A., Turnbull, B., Engleman, E., Strober, S.
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- **Resolution of Acute Kidney Injury After Liver Transplantation: A Single Center Experience.**
Todo, T., Gallo, A., Berumen, J., Feinberg, E., Melcher, M., Bonham, C., Busque, S., Concepcion, W., Esquivel, C.
LIPPINCOTT WILLIAMS & WILKINS.2014: 759
- **The Long Term Follow Up of Aging Kidney Donors.**
Lenihan, C., Busque, S., Myers, B., Tan, J.
LIPPINCOTT WILLIAMS & WILKINS.2014: 489–90
- **Resolution of Acute Kidney Injury After Liver Transplantation: A Single Center Experience.**
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- Scandling, J., Busque, S., Shizuru, J., Lowsky, R., Dejbakhsh-Jones, S., Jensen, K., Shori, A., Turnbull, B., Engleman, E., Strober, S.
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- **Early Excellent Outcomes of Flow Cross-Match Negative Kidney Transplant Recipients With Pre-Formed IgG DSA, C1q Negative With or Without Peri-Operative IVIg Infusion**
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 - **A Preconditioning Regimen With a PKC epsilon Activator Improves Islet Graft Function in a Mouse Transplant Model** *CELL TRANSPLANTATION*
Hamilton, D., Rugg, C., Davis, N., Kvezereli, M., Tafti, B. A., Busque, S., Fontaine, M.
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 - **EFFECT OF TOFACITINIB EXPOSURE ON OUTCOMES IN KIDNEY TRANSPLANT PATIENTS (KT PTS)**
Vincenti, F., Tedesco-Silva, H., O'Connell, P., Busque, S., Tortorici, M., Hahn, C. M., Wang, W., Chan, G.
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 - **Uniform Long-Term Graft Survival in a Clinical Trial of the Induction of Tolerance to Kidney Transplants.** *13th American Transplant Congress (ATC)*
Scandling, J., Busque, S., Shori, A., Dejbakhsh-Jones, S., Shizuru, J., Lowsky, R., Benike, C., Engleman, E., Strober, S.
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 - **Safety and Effectiveness of Valganciclovir for Cytomegalovirus Prophylaxis in Solid Organ Transplant Patients on Hemodialysis**
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 - **Adverse Events of Over-Immunosuppression Are Dependent on Tofacitinib Exposure in Kidney Transplant (KT) Patients.**
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 - **Evaluating Deceased Donor Registries: Identifying Predictive Factors of Donor Designation** *AMERICAN SURGEON*
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2013; 79 (3): 235-241
 - **Desensitization Combined With Paired Exchange Leads to Successful Transplantation in Highly Sensitized Kidney Transplant Recipients: Strategy and Report of Five Cases** *TRANSPLANTATION PROCEEDINGS*
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 - **A Decade'S Experience with Safety and Efficacy of Tolerance Induction in Clinical Kidney Transplantation**
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- **Tolerance and Withdrawal of Immunosuppressive Drugs in Patients Given Kidney and Hematopoietic Cell Transplants** *AMERICAN JOURNAL OF TRANSPLANTATION*
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