



Aruna Subramanian

Clinical Professor, Medicine - Infectious Diseases

CLINICAL OFFICES

- **Infectious Disease Clinic**

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Bio

BIO

Clinical Focus: Chief, Immunocompromised Host Infectious Diseases

This includes the prevention, diagnosis and treatment of Infections in patients who are immunosuppressed because of:

Solid Organ Transplantation (Kidney, Pancreas, Liver, Heart, Lung, Small Bowel)

Bone Marrow (Hematopoietic Cell) Transplants

Hematologic Malignancies

Chemotherapy for Solid Tumors

HIV who receive Chemotherapy, Solid Organ or Bone Marrow Transplants

Immunomodulators for Auto-Immune Diseases

CLINICAL FOCUS

- Infectious Disease

ACADEMIC APPOINTMENTS

- Clinical Professor, Medicine - Infectious Diseases

ADMINISTRATIVE APPOINTMENTS

- Co-PI, AIDS Clinical Trials Unit, Johns Hopkins University School of Medicine, (2001-2003)
- Co-Director, Transplant and Oncology ID Service, Johns Hopkins University School of Medicine, (2003-2011)
- Chief, Immunocompromised Host ID Service, Stanford University, Division of Infectious Diseases, (2013- present)

HONORS AND AWARDS

- Fellow of AST (FAST), American Society of Transplantation (2018)

- Fellow of IDSA (FIDSA), Infectious Diseases Society of America (2014)
- Sidney Finegold Outstanding Reviewer Award, Clinical Infectious Diseases Journal (2009)
- Associate Editor, Transplant Infectious Diseases Journal (2004-2016)
- Award for Outstanding Research, Case Western Reserve University (UHC) (1997)
- William Dodd Robinson Award for Excellence in Internal Medicine, University of Michigan (1994)

PROFESSIONAL EDUCATION

- Board Certification: Infectious Disease, American Board of Internal Medicine (2019)
- Fellowship: Johns Hopkins University Division of Infectious Diseases (2000) MD
- Medical Education: University of Michigan Medical School (1994) MI
- Residency: University Hospitals of Cleveland - Case Western Reserve (1997) OH
- Board Certification: Internal Medicine, American Board of Internal Medicine (1997)
- Fellowship, Johns Hopkins University School of Medicine , Infectious Diseases (2001)
- Residency, University Hospitals of Cleveland (Case Western Reserve) , Internal Medicine (1997)
- Medical School, University of Michigan , Medicine (1994)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research and scholarly interests have focused on tailoring antimicrobial prophylaxis in specific highly immunocompromised hosts depending on their specific infectious disease risks. I am interested in developing diagnostic algorithms and treatment protocols that will improve the quality of care in transplant and oncology patients.

I also have an interest in training ID fellows in this very specialized area of patient care. To that end, we have started a new ICHS ID fellowship with a specialized curriculum and are developing supplemental educational materials to enhance this training, which can be implemented at other academic training centers.

Publications

PUBLICATIONS

- **Cytokine profile in plasma of severe COVID-19 does not differ from ARDS and sepsis.** *JCI insight*
Wilson, J. G., Simpson, L. J., Ferreira, A., Rustagi, A., Roque, J. A., Asuni, A., Ranganath, T., Grant, P. M., Subramanian, A. K., Rosenberg-Hasson, Y., Maecker, H., Holmes, S., Levitt, et al
2020
- **A single-cell atlas of the peripheral immune response in patients with severe COVID-19.** *Nature medicine*
Wilk, A. J., Rustagi, A., Zhao, N. Q., Roque, J., Martinez-Colon, G. J., McKechnie, J. L., Ivison, G. T., Ranganath, T., Vergara, R., Hollis, T., Simpson, L. J., Grant, P., Subramanian, et al
2020
- **Antibiotic Exposure and Risk for Hospital-Associated Clostridioides difficile Infection.** *Antimicrobial agents and chemotherapy*
Webb, B. J., Subramanian, A., Lopansri, B., Goodman, B., Jones, P. B., Ferraro, J., Stenehjem, E., Brown, S. M.
2020
- **A Multicenter, Longitudinal Cohort Study of Cryptococcosis in Human Immunodeficiency Virus-negative People in the United States** *CLINICAL INFECTIOUS DISEASES*
Marr, K. A., Sun, Y., Spec, A., Lu, N., Panackal, A., Bennett, J., Pappas, P., Ostrander, D., Datta, K., Zhang, S. X., Williamson, P. R., Lyons, J., Bhimraj, et al
2020; 70 (2): 252–61
- **Remdesivir for 5 or 10 Days in Patients with Severe Covid-19.** *The New England journal of medicine*

- Goldman, J. D., Lye, D. C., Hui, D. S., Marks, K. M., Bruno, R., Montejano, R., Spinner, C. D., Galli, M., Ahn, M. Y., Nahass, R. G., Chen, Y. S., SenGupta, D., Hyland, et al
2020
- **Infections Related to Biologics.** *Infectious disease clinics of North America*
Ho, D. Y., Subramanian, A. K.
2020; 34 (2): xiii-xvi
 - **Simultaneous Coccidioidomycosis and Phaeohyphomycosis in a Kidney Transplant Recipient: A Case Report and Literature Review.** *Transplant infectious disease : an official journal of the Transplantation Society*
Puing, A. G., Couture-Cossette, A., Wang, A. X., Zygorakis, C. C., Cheng, X., Stevens, B. A., Banaei, N., Novoa, R. A., Ho, D. Y., Subramanian, A.
2020: e13365
 - **Characteristics and outcomes of coronavirus disease patients under nonsurge conditions, northern California, USA, March–April 2020** *Emerging Infectious Diseases*
Ferguson, J., Rosser, J., Quintero, O., Scott, J., Subramanian, A., Gumma, M., Rogers, A., Kappagoda, S.
2020
 - **Mycobacterium tuberculosis infections in solid organ transplantation: Guidelines from the infectious diseases community of practice of the American Society of Transplantation** *CLINICAL TRANSPLANTATION*
Subramanian, A. K., Theodoropoulos, N. M., Amer Soc Transplantation
2019; 33 (9)
 - **Impact of Pretransplant Donor BK Viruria in Kidney Transplant Recipients** *JOURNAL OF INFECTIOUS DISEASES*
Tan, S. K., Huang, C., Sahoo, M. K., Weber, J., Kurzer, J., Stedman, M. R., Concepcion, W., Gallo, A. E., Alonso, D., Srinivas, T., Storch, G. A., Subramanian, A. K., Tan, et al
2019; 220 (3): 370–76
 - **Association of Antibiotic Resistance With Antibiotic Use for Epidermal Growth Factor Receptor Inhibitor-Related Papulopustular Eruption** *JAMA DERMATOLOGY*
Hirotsu, K., Dang, T. M., Li, S., Neal, J. W., Pugliese, S., Subramanian, A., Kwong, B. Y.
2019; 155 (7): 848–50
 - **Successful eradication of chronic symptomatic Candida krusei urinary tract infection with increased dose micafungin in a liver and kidney transplant recipient: case report and review of the literature.** *Transplant infectious disease : an official journal of the Transplantation Society*
Multani, A., Subramanian, A. K., Liu, A. Y.
2019: e13118
 - **Liver transplantation for hepatitis C virus (HCV) non-viremic recipients with HCV viremic donors** *AMERICAN JOURNAL OF TRANSPLANTATION*
Kwong, A. J., Wall, A., Melcher, M., Wang, U., Ahmed, A., Subramanian, A., Kwo, P. Y.
2019; 19 (5): 1380–87
 - **Impact of Pre-Transplant Donor BK Viruria in Kidney Transplant Recipients.** *The Journal of infectious diseases*
Tan, S. K., Huang, C., Sahoo, M. K., Weber, J., Kurzer, J., Stedman, M. R., Concepcion, W., Gallo, A. E., Alonso, D., Srinivas, T., Storch, G. A., Subramanian, A. K., Tan, et al
2019
 - **Mycobacterium tuberculosis Infections in Solid Organ Transplantation: Guidelines from the Infectious Diseases Community of Practice of the American Society of Transplantation.** *Clinical transplantation*
Subramanian, A. K., Theodoropoulos, N. M., Infectious Diseases Community of Practice of the American Society of Transplantation
2019: e13513
 - **Incidence of Active Tuberculosis Following Hematopoietic Cell Transplantation: A Small but Real Threat.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
Aronson, J. R., Rezvani, A. R., Subramanian, A.
2019
 - **Association of Antibiotic Resistance With Antibiotic Use for Epidermal Growth Factor Receptor Inhibitor-Related Papulopustular Eruption.** *JAMA dermatology*
Hirotsu, K., Dang, T. M., Li, S., Neal, J. W., Pugliese, S., Subramanian, A., Kwong, B. Y.
2019

- **Use of Alternative Agents for Prevention of Opportunistic Infections in Heart and Lung Transplant Recipients** *CLINICAL INFECTIOUS DISEASES*
Epstein, D. J., Benamu, E., Subramanian, A. K.
2018; 67 (10): 1637–39
- **Liver Transplantation for HCV Non-Viremic Recipients with HCV Viremic Donors.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
Kwong, A. J., Wall, A., Melcher, M., Wang, U., Ahmed, A., Subramanian, A., Kwo, P. Y.
2018
- **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
- **Tuberculosis Recommendations for Solid Organ Transplant Recipients and Donors** *TRANSPLANTATION*
Santoro-Lopes, G., Subramanian, A. K., Molina, I., Maria Aguado, J., Rabagliatti, R., Len, O.
2018; 102 (2): S60–S65
- **Use of Alternative Agents for Prevention of Opportunistic Infections in Heart and Lung Transplant Recipients.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
Epstein, D. J., Benamu, E., Subramanian, A.
2018
- **Prevention and Management of Tuberculosis in Solid Organ Transplant Recipients.** *Infectious disease clinics of North America*
Epstein, D. J., Subramanian, A. K.
2018; 32 (3): 703–18
- **False-positive QuantiFERON TB-Gold test due to Mycobacterium gordonae** *DIAGNOSTIC MICROBIOLOGY AND INFECTIOUS DISEASE*
Gajurel, K., Subramanian, A. K.
2016; 84 (4): 315-317
- **False-positive hepatitis C virus serology after placement of a ventricular assistance device** *TRANSPLANT INFECTIOUS DISEASE*
Durand, C. M., Marr, K. A., OSTRANDER, D., Subramanian, A., Valsamakis, A., Cox, A., Neofytos, D.
2016; 18 (1): 146-149
- **Survival in HIV-positive transplant recipients compared with transplant candidates and with HIV-negative controls.** *AIDS (London, England)*
Roland, M. E., Barin, B., Huprikar, S., Murphy, B., Hanto, D. W., Blumberg, E., Olthoff, K., Simon, D., Hardy, W. D., Beatty, G., Stock, P. G.
2016; 30 (3): 435–44
- **Tolerability of Fluoroquinolones in Management of Latent Tuberculosis in Liver Transplant Candidates** *CLINICAL INFECTIOUS DISEASES*
Tien, V., Robilotti, E., Callister, D., Subramanian, A., Lutchman, G., Ho, D. Y.
2015; 61 (10): 1631–U154
- **Tuberculosis in solid organ transplant candidates and recipients: current and future challenges.** *Current opinion in infectious diseases*
Subramanian, A. K.
2014; 27 (4): 316-321
- **Epidemiology, risk factors, and outcomes of Clostridium difficile infection in kidney transplant recipients** *TRANSPLANT INFECTIOUS DISEASE*
Neofytos, D., Kobayashi, K., Alonso, C. D., Cady-Reh, J., Lepley, D., Harris, M., Desai, N., Kraus, E., Subramanian, A., TREADWAY, S., OSTRANDER, D., Thompson, C., Marr, et al
2013; 15 (2): 134-141
- **Mycobacterium tuberculosis Infections in Solid Organ Transplantation** *AMERICAN JOURNAL OF TRANSPLANTATION*
Subramanian, A. K., Morris, M. I.
2013; 13: 68-76
- **Outcomes of liver transplant recipients with hepatitis C and human immunodeficiency virus coinfection** *LIVER TRANSPLANTATION*
Terrault, N. A., Roland, M. E., Schiano, T., Dove, L., Wong, M. T., Poordad, F., Ragni, M. V., Barin, B., Simon, D., Olthoff, K. M., Johnson, L., Stosor, V., Jayaweera, et al
2012; 18 (6): 716-726

- **Fungal infection presenting as giant cell tubulointerstitial nephritis in kidney allograft** *TRANSPLANT INFECTIOUS DISEASE*
Bagnasco, S. M., Subramanian, A. K., Desai, N. M.
2012; 14 (3): 288-291
- **Donor-derived organ transplant transmission of coccidioidomycosis** *TRANSPLANT INFECTIOUS DISEASE*
Dierberg, K. L., Marr, K. A., Subramanian, A., Nace, H., Desai, N., Locke, J. E., Zhang, S., Diaz, J., Chamberlain, C., Neofytos, D.
2012; 14 (3): 300-304
- **Actinomucor elegans as an Emerging Cause of Mucormycosis** *JOURNAL OF CLINICAL MICROBIOLOGY*
Mahmud, A., Lee, R., Munfus-McCray, D., Kwiatkowski, N., Subramanian, A., Neofytos, D., Carroll, K., Zhang, S. X.
2012; 50 (3): 1092-1095
- **Antimicrobial prophylaxis regimens following transplantation** *CURRENT OPINION IN INFECTIOUS DISEASES*
Subramanian, A. K.
2011; 24 (4): 344-349
- **Provider Response to a Rare but Highly Publicized Transmission of HIV Through Solid Organ Transplantation** *ARCHIVES OF SURGERY*
Kucirka, L. M., Ros, L., Subramanian, A. K., Montgomery, R. A., Segev, D. L.
2011; 146 (1): 41-45
- **Outcomes of Kidney Transplantation in HIV-Infected Recipients** *9th American Transplant Congress*
Stock, P. G., Barin, B., Murphy, B., Hanto, D., Diego, J. M., Light, J., Davis, C., Blumberg, E., Simon, D., Subramanian, A., Millis, J. M., Lyon, G. M., Brayman, et al
MASSACHUSETTS MEDICAL SOC.2010: 2004-14
- **Recommended curriculum for subspecialty training in transplant infectious disease on behalf of the American Society of Transplantation Infectious Diseases Community of Practice Educational Initiatives Working Group** *TRANSPLANT INFECTIOUS DISEASE*
Avery, R., CLAUSS, H., Danziger-Isakov, L., Davis, J., Doucette, K., van Duin, D., FISHMAN, J., Gunseren, F., Humar, A., Husain, S., Isada, C., Julian, K., Kaul, et al
2010; 12 (3): 190-194
- **Infections in Transplant and Oncology Patients Preface** *INFECTIOUS DISEASE CLINICS OF NORTH AMERICA*
Marr, K. A., Subramanian, A. K.
2010; 24 (2): XIII-XV
- **MELD Score Is an Important Predictor of Pretransplantation Mortality in HIV-Infected Liver Transplant Candidates** *GASTROENTEROLOGY*
Subramanian, A., Sulkowski, M., Barin, B., Stablein, D., Curry, M., Nissen, N., Dove, L., Roland, M., Florman, S., Blumberg, E., Stosor, V., Jayaweera, D. T., Huprikar, et al
2010; 138 (1): 159-164
- **Mycobacterium tuberculosis in Solid Organ Transplant Recipients** *AMERICAN JOURNAL OF TRANSPLANTATION*
Subramanian, A., Dorman, S.
2009; 9: S57-S62
- **Nontuberculous Mycobacteria in Solid Organ Transplant Recipients** *AMERICAN JOURNAL OF TRANSPLANTATION*
Dorman, S., Subramanian, A.
2009; 9: S63-S69
- **Detection and treatment of Strongyloides hyperinfection syndrome following lung transplantation** *TRANSPLANT INFECTIOUS DISEASE*
Balagopal, A., Mills, L., Shah, A., Subramanian, A.
2009; 11 (2): 149-154
- **Renal Transplant in HIV-Positive Patients Long-term Outcomes and Risk Factors for Graft Loss** *ARCHIVES OF SURGERY*
Locke, J. E., Montgomery, R. A., Warren, D. S., Subramanian, A., Segev, D. L.
2009; 144 (1): 83-86
- **Incidence and risk factors for hepatocellular carcinoma after solid organ transplantation** *TRANSPLANTATION*
Hoffmann, C. J., Subramanian, A. K., Cameron, A. M., Engels, E. A.
2008; 86 (6): 784-790

- **The high-risk donor: viral infections in solid organ transplantation** *CURRENT OPINION IN ORGAN TRANSPLANTATION*
Singer, A. L., Kucirka, L. M., Namuyinga, R., Hanrahan, C., Subramanian, A. K., Segev, D. L.
2008; 13 (4): 400-404

- **Should a prisoner be placed on the organ transplant waiting list?** *The virtual mentor : VM*
Cameron, A. M., Subramanian, A. K., Sulkowski, M. S., Thomas, D. L., Nelson, K. E.
2008; 10 (2): 88-91

- **West Nile virus encephalitis in a kidney transplant recipient** *AMERICAN JOURNAL OF TRANSPLANTATION*
Shepherd, J. C., Subramanian, A., Montgomery, R. A., Samaniego, M. D., Gong, G., Bergmann, A., Blythe, D., Dropulic, L.
2004; 4 (5): 830-833

- **Correlation of Chlamydia pneumoniae infection and severity of accelerated graft arteriosclerosis after cardiac transplantation** *TRANSPLANTATION*
Subramanian, A. K., Quinn, T. C., Kickler, T. S., Kasper, E. K., Tucker, P. C.
2002; 73 (5): 761-764

- **Cutaneous zygomycosis (mucormycosis)** *NEW ENGLAND JOURNAL OF MEDICINE*
Carpenter, C. F., Subramanian, A. K.
1999; 341 (25): 1891-1891

- **Images in clinical medicine. Cutaneous zygomycosis (Mucormycosis).** *New England journal of medicine*
Carpenter, C. F., Subramanian, A. K.
1999; 341 (25): 1891-?