

# Stanford

---



## Mrigender Singh Virk

Clinical Associate Professor, Pathology

### CLINICAL OFFICE (PRIMARY)

- **Stanford Dept of Pathology**

300 Pasteur Dr Rm H1402

MC 5626

Stanford, CA 94305

**Tel** (650) 724-1118

**Fax** (650) 723-9178

### Bio

---

#### BIO

Dr. Mrigender Virk completed his residency in Anatomic & Clinical Pathology at Georgetown University before joining Stanford for his Transfusion Medicine Fellowship. After completion of the fellowship, Dr. Virk joined the Department of Pathology as a Clinical Assistant Professor for Transfusion Medicine.

#### CLINICAL FOCUS

- Anatomic and Clinical Pathology
- Transfusion Medicine

#### ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Pathology

#### ADMINISTRATIVE APPOINTMENTS

- Director, Transfusion Medicine Laboratory, Stanford Health Care, (2022- present)
- Director, Transfusion Medicine Fellowship Program, Stanford University Medical Center, (2021- present)

#### PROFESSIONAL EDUCATION

- Board Certification: Blood Banking/Transfusion Medicine, American Board of Pathology (2018)
- Fellowship: Stanford University Department of Pathology (2018) CA
- Board Certification, American Board of Pathology , Anatomic & Clinical Pathology (2017)
- Residency: Medstar Georgetown University Hospital (2017) DC
- Medical Education: St George's University School of Medicine Grenada West Indies (2013) NY West Indies

### Teaching

---

#### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Transfusion Medicine (Fellowship Program)

## Publications

---

### PUBLICATIONS

- **Implementation and early outcomes with Pathogen Reduced Cryoprecipitated Fibrinogen Complex.** *American journal of clinical pathology*  
Sethapati, V. R., Pham, T. D., Quach, T., Nguyen, A., Le, J., Cai, W., Virk, M. S.  
2024
- **Comparison of the solid-phase red cell adherence assay and tube method for detection and identification of red blood cell antibodies.** *American journal of clinical pathology*  
Abdelmonem, M., Dussaq, A., Papakonstantino, K., Yunce, M., Virk, M. S.  
2024
- **Serologic reactivity of unidentified specificity in antenatal testing and hemolytic disease of the fetus and newborn: The BEST collaborative study.** *Transfusion*  
Lu, W., Ziman, A., Yan, M. T., Waters, A., Virk, M. S., Tran, A., Tang, H., Shih, A. W., Scally, E., Raval, J. S., Pandey, S., Pagano, M. B., Shan, et al  
2023
- **Validated transport conditions maintain the quality of washed red blood cells.** *Transfusion*  
Baker, S. A., Wong, L. K., Wieland, R., Bulterys, P., Allard, L., Nguyen, L., Quach, T., Nguyen, A., Chaesuh, E., Cheng, P., Bowen, R., Virk, M.  
2022; 62 (9): 1860-1870
- **Transfusion Outcomes between Regular and Low Yield Pathogen Reduced Platelets across Different Patient Populations in a Single Institution**  
Tang, M., Shu, E., Sussman, H., Virk, M., Pandey, S., Shan, H., Pham, T.  
WILEY.2022: 268A
- **Transfusion outcomes between regular and low yield pathogen reduced platelets across different patient populations in a single institution.** *Transfusion*  
Tang, M. S., Shu, E., Sussman, H., Virk, M., Pandey, S., Shan, H., Pham, T.  
2022
- **Multinational Analysis of Children Transfused With Pathogen Inactivated Platelets.** *Hospital pediatrics*  
Delaney, M., Andrews, J., Virk, M., Barber, J. R., Bost, J. E., Baech, J., Feys, H. B.  
2022; 12 (3): 311-316
- **How do I implement pathogen-reduced platelets?** *Transfusion*  
Pham, T. D., Kadi, W., Shu, E., Pandey, S., Sussmann, H., Shan, H., Virk, M. S.  
2021
- **Multinational Analysis of Transfusion Reactions in Children Transfused with Pathogen Inactivated Platelets**  
Delaney, M., Barber, J. R., Andrews, J., Virk, M., Bost, J. E., Baech, J., Feys, H. B.  
WILEY.2021: 8A-9A
- **Establishing a Satellite Transfusion Service Within an Academic Medical Center.** *American journal of clinical pathology*  
Murphy, C. H., Lim, A. Y., Chua, L., Shan, H., Goodnough, L. T., Virk, M. S.  
2020
- **Optimizing O-negative RBC utilization using a data-driven approach.** *Transfusion*  
Virk, M. S., Lancaster, D. n., Quach, T. n., Lim, A. n., Shu, E. n., Belanger, G. n., Pham, T. D.  
2020
- **Blood Donation During Pregnancy Due to Anti-Ku Hemolytic Disease of the Fetus and Newborn** *LABORATORY MEDICINE*  
Virk, M., Papakonstantino, K., Cai, W., Oh, D., Andrews, J.  
2019; 50 (4): 421–25
- **Non-HLA Antibody-Mediated Rejection of Lung Transplant Masquerading Transfusion-Related Acute Lung Injury**  
Yunce, M., Virk, M., Zhang, B. M., Mooney, K., Saleem, A., Shan, H.  
WILEY.2019: 199A
- **Detection of Anti-ABO Antibodies by Flow-Based Assays Predicts Clinical Hemolysis in HSCT Patients**  
Virk, M., Liu, H., Khoa Dang Nguyen, Chen, G., Tho Pham

---

WILEY.2019: 90A

● **A FLOW CYTOMETRY BASED ABO-BLOOD GROUP ANTIBODY ASSAY (FABO-AB) FOR PREDICTING HEMOLYSIS IN ABO-MISMATCHED BONE MARROW TRANSPLANTATION (BMT)**

Liu, H., Nguyen, K. D., Virk, M. S., Pham, T. D., Chen, G.  
ELSEVIER SCIENCE INC.2019: 40

● **International assessment of massive transfusion protocol contents and indications for activation** *TRANSFUSION*

Thomasson, R. R., Yazer, M. H., Gorham, J. D., Dunbar, N. M., Adhikari, P., Apelseth, T., Bahr, M., Blain, H., Bohonek, M., Boral, L., Browne, I., Cheng, N., Cohn, et al  
2019; 59 (5): 1637–43

● **Granulocyte Transfusions in a Cohort of Neutropenic Patients with Life-Threatening Infections and Hematologic Diseases** *AMER SOC HEMATOLOGY*

Ediriwickrema, A., Virk, M., Andrews, J.  
2019: 3696

● **Severe Underestimation of Serum Na following IVIG Treatment.** *Laboratory medicine*

Virk, M. S., Dean, N. P., Wong, E. C.  
2018; 49 (4): 372-376

● **ABO Antibody Detection with Biolayer Interferometry**

Virk, M., Khoa Nguyen, Khosravi, M., Miller, E., Tho Pham  
WILEY.2018: 145A

● **Rh Immunoprophylaxis for Women With a Serologic Weak D Phenotype.** *Laboratory medicine*

Virk, M., Sandler, S. G.  
2015; 46 (3): 190-4