

# Kimberly Williams Sanford, MD

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Associate Professor, Department of Pathology  
Medical Director, Transfusion Medicine  
Medical Director, Stony Point and Ambulatory  
Outpatient Pavilion Laboratories  
Director, Undergraduate Medical Education  
Virginia Commonwealth University  
February 2008 - Present  
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## Licenses & Certifications

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### *Medical Licenses*

Virginia

### *Professional Certifications*

2026 - American Board of Pathology, Transfusion Medicine Subspecialty

2026 - American Board of Pathology, Anatomic and Clinical Pathology

1991 - American Society for Clinical Pathology, Medical Technologist

1991 - National Clinical Association, Clinical Laboratory Specialist

1988 - American Society of Phlebotomy, Technician

## Education

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### *Postgraduate Medical Training*

2010-2012 *Fellowship* - Transfusion Medicine  
University of Virginia Charlottesville, Virginia

2001-2006 *Residency* - AP/CP Pathology  
Virginia Commonwealth University (VCU), Richmond, Virginia

### *Medical Education*

1997-2001 MD, Virginia Commonwealth University - Richmond, VA

### *Undergraduate Education*

1987-1991 Medical Technology, BS  
Virginia Commonwealth University - Richmond, VA

## Awards

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| 2018 | Danny Meyer Volunteer Board Member of the Year Award, American Red Cross, Capital Chapter, Virginia, awarded September 2018.  |
| 2017 | Outstanding Division Director, 2017-2018, School of Medicine, Virginia Commonwealth University, awarded September 2018.   |
| 2017 | Outstanding Teacher Award for Best Teacher for Scientific Foundations of Medicine, Foundations of Disease, 2017-2018, School of Medicine, Virginia Commonwealth University, awarded September 2018. |
| 2017 | Enrique Gerszten, MD Faculty Teaching Excellence Award, School of Medicine, Virginia Commonwealth University, awarded September 2017.   |
| 2016 | Outstanding Teacher Award for Best Teacher for Scientific Foundations of Medicine, Foundations of Disease, 2016-2017, School of Medicine, Virginia Commonwealth University, awarded September 2017. |
| 2015 | Outstanding Teacher Award for Best Teacher for Scientific Foundations of Medicine, Foundations of Disease, 2015-2016, School of Medicine, Virginia Commonwealth University, awarded September 2016. |
| 2015 | H. P. Smith Award for Distinguished Pathology Educator, American Society for Clinical Pathologists, awarded October 2015.   |

- 2014 Outstanding Teacher Award for Best Teacher for Scientific Foundations of Medicine, Foundations of Disease, 2014-2015, School of Medicine, Virginia Commonwealth University, awarded October 2015.
- 2014 Outstanding Teacher Award for High Evaluation, Applied Medical Sciences, Marrow, 2013-2014, School of Medicine, Virginia Commonwealth University.
- 2013 Outstanding Teacher Award for Best Teacher for Scientific Foundations of Medicine, Foundations of Disease, 2013-2014, School of Medicine, Virginia Commonwealth University, awarded October 2014
- 2013 Outstanding Teacher Award in Pathogenesis, School of Medicine, Virginia Commonwealth University, awarded October 2014.
- 2013 Virginia Commonwealth Medical Center Physician Champion, Richmond, Virginia, awarded July 2013.
- 2012 Outstanding Teacher Award in Pathogenesis, School of Medicine, Virginia Commonwealth University, awarded September 2013.
- 2012 Alumni Hall of Fame Inductee, Virginia Commonwealth University. Clinical Laboratory Science Department, Richmond, Virginia.
- 2011 Outstanding Teacher Award in Pathogenesis, School of Medicine, Virginia Commonwealth University, awarded May 2012.
- 2011 ASCP Mastership Award, Presented at 2011 ASCP Annual Meeting, Las Vegas, Nevada.
- 2010 Outstanding Teacher Award in Pathogenesis, School of Medicine, Virginia Commonwealth University.
- 2008 Association of Pathology Chairs Honor Society
- 2006 VCU Department of Pathology Resident Research Award

# Virginia Commonwealth University and Medical Center Appointments

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## *Current (Department of Pathology)*

Medical Director - Transfusion Medicine, VCU Medical Center

Medical Director - Stony Point and Ambulatory Outpatient Pavilion Laboratories

Medical Advisor - Department of Clinical Laboratory Sciences, VCU

Director - Undergraduate Medical Education, Department of Pathology, VCU

## *Current (Other)*

2022 - present Member, Blood Administration Steering Committee, VCU Health

2022 - present Co-Chair, Blood Administration QAPI, VCU Health

2012 - present Member Trauma Patient Care Committee, VCU Health

2019 - present Curriculum Council, Vice Chair, School of Medicine, VCU

2012 - present Blood Utilization Committee, Co-Chair, VCU Medical Center

2008 - present Faculty advisor, Pathology club for medical students

2020 - present VCU Women in Science, Dentistry and Medicine, President of Executive Council, 2017-2019, Past President

2008 - present VCU Women in Science, Dentistry and Medicine, Chair for Professional Development

2008 - present VCU Women in Science, Dentistry and Medicine (WISDM), Annual Leadership Meeting Planning committee

## Professional Organizations

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American Association of Blood Banks  
American Society for Clinical Pathology  
American Society for Apheresis  
Virginia Society of Pathological Society of Virginia  
Richmond Academy of Medicine

## Professional Service

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2021 - 2022	Immediate Past President, Board of Directors, American Society for Clinical Pathology (ASCP)
2020 - 2021	President, Board of Directors, American Society for Clinical Pathology (ASCP)
2019 - 2020	President Elect, Board of Directors, American Society for Clinical Pathology (ASCP)
2018 - 2019	Vice President, Board of Directors, American Society for Clinical Pathology (ASCP)
2015 - 2018	Member at Large, Board of Directors, American Society for Clinical Pathology (ASCP)
2019 - 2021	Member, Finance Committee, American Society for Clinical Pathology (ASCP)
2018 - 2020	Member, Commission on Science, Technology and Policy, American Society for Clinical Pathology (ASCP)
2017 - present	Member, Neurologic Disorders Treated with Apheresis Working Group, American Society for Apheresis (ASFA)
2014 - 2018	Transfusion Medicine coordinator, Education Working Group, American Society of Clinical Pathology (ASCP)

2013 - 2020	Member, Commission on Continuing Professional Development, American Society for Clinical Pathology (ASCP)
2009 - 2013	Chair, Education working group, Annual Meeting American Society for Clinical Pathology
2009 - 2015	Member, Annual Meeting Steering Committee, American Society for Clinical Pathology
2009 - 2014	Medical Advisor, American Proficiency Institute/ American Society for Clinical Pathology
2008 - 2009	Member, Annual Meeting Task force, American Society for Clinical Pathology
2008 - 2014	Member, Annual Meeting Committee, American Society for Clinical Pathology
2007 - 2014	Member, Checkpath Committee, American Society for Clinical Pathology

## Community Service

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2019 - present	Chair, Board of Directors, American Red Cross, Capital Chapter, Virginia
2016 - 2019	Member, Board of Directors, American Red Cross, Capital Chapter, Virginia

## Editorial Advisory Boards

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2012 - present	American Journal of Clinical Pathology
2006 - present	LabMedicine, American Society for Clinical Pathology

## Recent Invited Presentations

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ASCP Policy Updates, ASCP Annual Meeting, Boston, MA, October 28, 2021.  
"What is an FDA reportable event", American Red Cross Success Virtual Online Presentation, May 2021.

"Stop the Bleed" and "Stop the Bleed: continuing the conversation" American Society for Clinical Pathology, Virtual Annual Meeting, September 10, 2020  
Kalamazoo Muskegan Black Nurse Association. "The Impact of COVID-19 on Patients with Sickle Cell Anemia". 6/20/20. Virtual presentation.

ASCP Town Hall. "The Health Care Disparities of COVID-19" July 8, 2020, virtual town hall.

CDC's National Clinical Laboratory COVID Call. "The Unexpected Impact of COVID-19 on the Blood Supply". May 18, 2020, virtual presentation.

ASCP Town Hall, "COVID-19 Impact on Blood Banks: What you need to know". May 11, 2020, virtual town hall.

"Pathologist Role in CAR T-cell Therapy" United States and Canadian Academy of Pathology. March 2, 2020, Los Angeles, CA.

"Laboratory Leaders for the Next Generation". American Society for Clinical Pathology, Annual Meeting, Phoenix AZ September 11, 2019.

"Is OK Good Enough or Do you Want to Make it Better: Core Principles of Quality Management and Performance Improvement". American Society for Clinical Pathologist, Annual Meeting, Phoenix AZ September 12, 2019.

"Culturally Appropriate Leadership Training: Pathways to Improve Patient Care and Female Empowerment" American Society for Clinical Pathology, Annual Meeting, Phoenix AZ September 12, 2019.

"Coagulation on the Cutting Edge: Updates on Hemostasis/Thrombosis Testing and Implications for Patient Management" American Society for Clinical Pathology, Annual Meeting, Phoenix AZ September 13, 2019.

"A Patient Wants to Speak to Me: What Do I Do?" American Society for Clinical Pathology, Annual Meeting, Phoenix AZ September 13, 2019.

“Dealing with Disasters: Are you an Ostrich or an Owl?” American Society for Clinical Pathology, Annual Meeting, Baltimore, MD October 3, 2018.

Competency Based Curriculum for Pathology Trainees and Laboratory Professionals: Discussions and Criticisms. American Society for Clinical Pathology, Annual Meeting, Baltimore, MD October 4, 2018.

Approaches to Common and Complex Issues in Transfusion Medicine, Apheresis and Coagulation/Hemostasis: A Flipped Classroom ‘Primer’. American Society for Clinical Pathology, Annual Meeting, Baltimore, MD October 4, 2018.

Apheresis in Pediatric Patients: Not Just Small Adults. Therapeutic Apheresis Academy 2018. University of Virginia. Charlottesville, VA. September 20, 2018.  
Lab Management Workshop: Mastering Laboratory Change. American Pathology Foundation Spring Meeting, April 16, 2018.

Blood Bank Resident Mini-Review Course, American Society for Clinical Pathology, Annual Meeting, Chicago, IL September 8, 2017.

Lab Management: Mastering Laboratory Change. American Society for Clinical Pathology Annual Meeting, Chicago, IL September 8, 2017.

Speed Dating In Blood Banking, Apheresis and Coagulation. American Society for Clinical Pathology Annual Meeting, Chicago, IL September 6, 2017.

Keynote Address: Assertiveness in the Lab: Making the Right Call! Innovative Laboratory: Robert. J. Tomsich Pathology and Laboratory Medicine Institute, Cleveland Clinic, Cleveland, Ohio. April 22, 2017.

Transfusion Medicine Cases: Problem Based Learning. Innovative Laboratory: Robert. J. Tomsich Pathology and Laboratory Medicine Institute, Cleveland Clinic, Cleveland, Ohio. April 22, 2017.

## Recent Publications

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### *Peer Reviewed Publications*

Ipe TS, Meyer EK, **Sanford KW**, Joshi SK, Wong ECC, Raval JS. Use of therapeutic plasma exchange for pediatric neurological diseases. J Clin Apher. 2021 Feb;36(1):161-176. doi: 10.1002/jca.21850. Epub 2020 Oct 16. PMID: 33063869.



Godbey EA, Anderson MR, M Bachmann L, **Sanford KW**, Wieditz K, Roseff SD. How do we monitor hemoglobin S in patients who undergo red blood cell exchange and take voxelotor? *Transfusion*. 2021 Jun;61(6):1680-1683. doi: 10.1111/trf.16405. Epub 2021 Apr 20. PMID: 33880770.

Gehrie E, Tormey CA, **Sanford KW**. Transfusion Service Response to the COVID-19 Pandemic. *Am J Clin Pathol*. 2020 Aug 5;154(3):280-285. doi: 10.1093/ajcp/aqaa111. PMID: 32584950; PMCID: PMC7449374.

Godbey EA, Dalton JB, Lai G, **Sanford KW**, Roseff SD. First reported case of leukocytapheresis in plasma cell leukemia. *Transfusion*. 2020 Jan;60(1):11-12. doi: 10.1111/trf.15564. Epub 2019 Nov 4. PMID: 31682280.

Booth GS, Gehrie EA, Tormey CA, **Sanford KW**. Specimens Received as a Critical Indicator for Blood Bank Preparedness in the SARS-CoV-2 Era. *Am J Clin Pathol*. 2020 Sep 8;154(4):571-572. doi: 10.1093/ajcp/aqaa129. PMID: 32710106; PMCID: PMC7454289.

Ipe TS, Raval JS, Fernando LP, Gokhale A, Jacquot C, Johnson AD, Kim HC, Monis GF, Mo YD, Morgan SM, Pagano MB, Pham HP, **Sanford K**, Schmidt AE, Schwartz J, Waldman A, Webb J, Winters JL, Wu Y, Yamada C, Wong ECC. Therapeutic plasma exchange for neuromyelitis optica spectrum disorder: A multicenter retrospective study by the ASFA neurologic diseases subcommittee. *J Clin Apher*. 2020 Jan;35(1):25-32. doi: 10.1002/jca.21754. Epub 2019 Nov 9. PMID: 31705563.

**Sanford K**, Case N, Blake B, Michaud T, McPherson RA, Roseff SD. Changes in Mean Corpuscular Volume and RBC Distribution Width Predict Erythrocyte Engraftment Following ABO-Incompatible Hematopoietic Stem Cell Transplantation. *Am J Clin Pathol*. 2020 May 5;153(6):781-789. doi: 10.1093/ajcp/aqaa006. PMID: 32103240.

**Sanford K**, Anderson J, Roseff SD, McPherson RA. Iron Deficiency in Patients Undergoing Extracorporeal Photopheresis for Cutaneous T-cell Lymphoma. *Lab Medicine*. *Lab Med*. 2019 Jan 1;50(1):29-33. PMID:29955854.

**Sanford K**, Fisher BJ, Fowler E, Fowler AA, Natarajan R. Attenuation of Red Blood Cell Storage Lesions with Vitamin C. *Antioxidants (Basel)*. 2017 Jul 12;6(3). pii: E55. doi: 0.3390/antiox6030055. PMID:28704937

Bassem M, **Sanford K**, Fisher B, Martin EJ, Contaifer D, Warncke UO, Wijesinghe DS, Chalfant CE, Brophy DF, Fowler AA, Natarajan R. Impact of high dose vitamin C on platelet function. World Journal of Critical Care Medicine. World J Crit Care Med. 2017 Feb 4;6(1):37-47. doi: 10.5492/wjccm.v6.i1.37. eCollection 2017 Feb 4.

**Sanford KW**, McPherson RA, Case N, Roseff SD. Assessing Erythrocyte Engraftment in Post-Hematopoietic ABO Incompatible Stem Cell Transplant Patients Using Hematologic Parameters as Observational Markers. Manuscript in preparation, 2015.

**Sanford KW**, S Bourikian, A McClain, K Curtis. Detection of Anti-Kidd antibody in a non-transfused patient. LabMedicine 2015; 46:235-40.

**Sanford K**, McPherson R, Anderson J, Thomas O, Chung H, Roseff S. Harvesting Autologous Stem Cells from a Patient with Erythrocyte Abnormalities of Beta Thalassemia Intermedia. Manuscript in press.

Toor A, Payne K, Chung H, Sabo R, Hazlett, Kmiecik M, **Sanford K**, Williams D, Clark W, Roberts C, McCarty J, Manjili M. Epigenetic induction of adaptive immune response in multiple myeloma: sequential azacitidine and lenalidomide generate cancer testis antigen-specific cellular immunity. British Journal of Haematology 2012; Jul 23. doi: 10.1111/j.1365-2141.2012.09225.x.

**Sanford KW**, Balogun RA. Extracorporeal Photopheresis: Clinical Use So Far. Journal of Clinical Apheresis 2012;27(3):126-31.

**Sanford KW**, Balogun RA. Therapeutic Apheresis in Critically Ill Patients. Journal of Clinical Apheresis 2011; 26:249-251.

McPherson RA, Buckler AG, **Sanford KW**, Roseff SD. Investigation of Heparin-Related Hypotensive Adverse Events during Photopheresis: Utility of a Patient Care Data Base. Transfusion 2011;51(6):1314-20.

Balogun RA, Ogunniyi A, **Sanford K**, Okafor C, Lobo PI, Siami G, Barcia J, Kaplan AA. Therapeutic Apheresis in Special Populations. Journal of Clinical Apheresis 2010. 2010; 25(5); 265-74.

**Sanford KW** and Roseff SD. Detection and significance of Donath Landsteiner antibodies in a 5 year old female presenting with hemolytic anemia. LabMedicine. 2010;41(4):209-12.

**Sanford KW**, McPherson RA. Fecal Occult Blood Testing. In: Clinics in Laboratory Medicine: Point of Care Testing. Lewandrowski K, Wells A, eds. Elsevier, Inc. September 2009, 29; 3:523-541.

**Sanford KW** and Roseff SD. Massive transfusion. ASCP Check Sample in Transfusion Medicine, TM 05-4(TM-280), 2005.

### *Book Chapters*

**Sanford KW** and Mais DD. Blood Banking. In: ASCP Quick Compendium Clinical Pathology, 5<sup>rd</sup> ed. Mais D and Sanford K, eds. USA: ASCP Press; in press.

**Sanford KW** and Mais DD. Medical Directorship. In: ASCP Quick Compendium Clinical Pathology, 5<sup>rd</sup> ed. Mais D and Sanford K, eds. USA: ASCP Press; in press.

**Sanford, KW**. Transfusions. In: "A Guide to Infection Control in the Hospital", Sixth Edition, 2018.

**Sanford KW** and Mais DD. Blood Banking. In: ASCP Quick Compendium Clinical Pathology, 3<sup>rd</sup> ed. Mais D, ed. USA: ASCP Press; in press.

**Sanford KW** and Mais DD. Immunology. In: ASCP Quick Compendium Clinical Pathology, 3<sup>rd</sup> ed. Mais D, ed. USA: ASCP Press; in press.

**Sanford KW** and Mais DD. Blood Banking. In: ASCP Practical Clinical Pathology, 2<sup>nd</sup> ed. Mais D, ed. USA: ASCP Press; in press.

**Sanford KW** and Mais DD. Immunology. In: ASCP Practical Clinical Pathology, 2<sup>nd</sup> ed. Mais D, ed. USA: ASCP Press; in press.

Long PM, **Sanford KW**, Bluth MH. Immunodeficiency Disorders. In: Henry's Clinical Diagnosis and Management by Laboratory Methods, 23<sup>rd</sup> ed. McPherson RA, Pincus MR, editors. USA: Elsevier; 2016. Chapter 51; p.983-992.

**Sanford KW**. Transfusions. In: A Guide to Infection Control in the Hospital, Fifth Edition. The Guide has been translated into Spanish, Polish, Croatian, Russian, and Chinese. [http://isid.org/publications/guide\\_infection\\_contr.shtml#about](http://isid.org/publications/guide_infection_contr.shtml#about)

**Sanford KW**, Roseff SD. Immunodeficiency disorders. In: Henry's Clinical Diagnosis and Management by Laboratory Methods, 21<sup>st</sup> ed. McPherson RA, Pincus MR, editors. USA: Elsevier; 2006. Chapter 49; p. 906-15.

**Sanford KW** and Roseff SD. The surgeon and the transfusion medicine service: Essentials of compatibility testing, surgical blood ordering, emergency blood needs and adverse reactions. In: Speiss B, Perioperative Transfusion Medicine, Second edition, Baltimore, MD: Williams and Wilkins. 2006.