

JEFFREY S. JHANG, MD, MBA
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APPOINTMENTS/EMPLOYMENT

4/2004-6/2012	Assistant Professor of Clinical Pathology and Cell Biology, Department of Pathology and Cell Biology, College of Physicians and Surgeons, Columbia University, New York, NY
4/2004-11/2013	Assistant Director, Transfusion Medicine, Columbia University Medical Center Campus of New York-Presbyterian Hospital
1/2005-11/2013	Director of Special Hematology and Coagulation Laboratory, Columbia University Medical Center Campus of New York-Presbyterian Hospital
6/2005-11/2013	Director of Parathyroid and Pancreatic Islet Cell Collection, Processing and Transplantation Facility, Columbia University Medical Center Campus of New York-Presbyterian Hospital
4/2008-11/2013	Assistant Director of Clinical Laboratories, Helen Hayes Hospital, West Haverstraw, New York
4/2011-6/2013	Adjunct Associate Professor, Department of Clinical Laboratory Sciences, University of Medicine and Dentistry of New Jersey, New Brunswick, NJ
7/2012-11/2013	Associate Professor of Pathology and Cell Biology, Department of Pathology and Cell Biology, College of Physicians and Surgeons, Columbia University, New York, NY
11/2013-12/2019	Associate Professor, Department of Pathology, Icahn School of Medicine at Mount Sinai, New York, NY
11/2013-7/2020	Director, Blood Bank and Transfusion Services (Blood Bank, Apheresis, Cellular Therapy Laboratory), Mount Sinai Hospital, New York, NY
2/2014-10/2015	Director, Pathology and Laboratory Medicine, New York Eye and Ear Infirmary of Mount Sinai, New York, NY
7/2015-present	System Director, Blood Bank and Transfusion Services (Blood Bank, Apheresis, Cellular Therapy Laboratory), Mount Sinai Health System, New York, NY
11/2018-11/2019	Interim Medical Director (Contractor), Celularity Inc., Cedar Knolls, NJ
7/2013-present	Adjunct Associate Professor, Department of Clinical Laboratory Sciences, Rutgers State University of New Jersey (formerly the University of Medicine and Dentistry of New Jersey), New Brunswick, NJ
1/2019-6/2022	Professor of Pathology, Molecular and Cell-based Medicine, Icahn School of Medicine at Mount Sinai, New York, NY
11/2019-6/2022	Vice Chair for Clinical Pathology, Icahn School of Medicine at Mount Sinai, Department of Pathology, Molecular and Cell-based Medicine (System-wide), New York, NY
11/2019-6/2022	Medical Director, Center for Clinical Laboratories, Mount Sinai Hospital, New York, NY

7/2022-present	Clinical Professor of Pathology, NYU Grossman School of Medicine, New York, NY
7/2022-present	Director, Clinical Laboratories, NYU Langone Health System, New York, NY
7/2022-present	Director, Clinical Laboratories, Tisch Hospital, NYU Langone Health, New York, NY
7/2022-present	Service Chief, Clinical Laboratory Services, Tisch Hospital, NYU Langone Health, New York, NY
7/2023-present	Director, Clinical Laboratories, Langone Orthopedic Hospital, NYU Langone Health, New York, NY

GAPS IN EMPLOYMENT

4/1998 to 10/1998	Medical Leave of Absence from Internal Medicine Residency, Columbia University Medical Center, New York, NY
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EDUCATION

9/1989-5/1993	Massachusetts Institute of Technology, Cambridge, MA S.B. Electrical Science and Engineering
8/1993-5/1997	Mount Sinai School of Medicine, M.D., New York, NY
6/1997-3/1998	Intern, Internal Medicine, College of Physicians and Surgeons, Columbia University, New York, NY
11/1998-3/2003	Resident, Anatomic and Clinical Pathology, College of Physicians and Surgeons, Columbia University, New York, NY
7/2001-6/2002	Chief Resident, Anatomic and Clinical Pathology, College of Physicians and Surgeons, Columbia University, New York, NY
4/2003-3/2004	Transfusion Medicine Fellow, New York Blood Center, New York, NY
9/2018- 5/2020	Rutgers State University of New Jersey, Rutgers Business School, Newark, NJ Master of Business Administration

CERTIFICATION

7/ 2003	Diplomate, American Board of Pathology (Anatomic and Clinical Pathology)
9/2005	Diplomate, American Board of Pathology (Transfusion Medicine/Blood Banking)
10/2016	Diplomate, American Board of Pathology (Clinical Informatics)
5/2020	Lean Six Sigma Green Belt, Rutgers Business School

LICENSURE

6/2000	New York State Medical License: #217702, exp. 12/31/2023
6/2004	New York State Department of Health Certificate of Qualifications (JHAN1)

Bacteriology, Blood Banking (Collection-Limited), Blood pH and Gases, Clinical Chemistry, Clinical Toxicology, Cytopathology, Diagnostic Immunology, Endocrinology, Hematology, Histopathology (General), Immunohematology, Mycobacteriology, Mycology, Parasitology, Therapeutic Monitoring/Quantitative Toxicology, Transfusion Services exp. 6/30/2024

11/2018

New Jersey State Medical License #25MA10464600, exp. 06/30/2023.

HONORS/AWARDS

1993	Eta Kappa Nu (Electrical Engineering Honor Society)
1994	Sigma Xi (The Scientific Research Society)
1995	National Institute of Health Research Fellowship Award
1997	Mount Sinai School of Medicine Basic Sciences Achievement Award
2000	College of American Pathologists Fall Informatics Award
2001	College of American Pathologists Spring Informatics Award
2009	College of Physicians & Surgeons, Columbia University: Dr. Joseph G. Fink Laboratory Medicine Faculty Teaching Award
2020	Poets & Quants Best and Brightest Executive MBA Graduates
2020	Wall Street Journal Strategy Award, Rutgers Business School, Executive MBA Program
2020	Tom Marousas Award, Rutgers Business School, Executive MBA Program

PATENTS *not applicable*

OTHER PROFESSIONAL ROLES

External

1998-present	College of American Pathologists
2001-2002	College of American Pathologists, Instrumentation Resource Committee, Junior Member
2001-2002	Delegate, College of American Pathologists Resident's Forum
2003-2004	Member, Standards and Instrumentation Resource Committee
2005-present	Inspector, Laboratory Accreditation Program Hospitals Inspected: 10
2008 -present	Inspection Team Leader, Laboratory Accreditation Program Hospitals Inspected: 6

2014-2020	Standards Committee, Member
2023-present	Informatics Committee, Member
2023-present	New York State Delegate, House of Delegates
2004 to present	AABB (formerly the American Association of Blood Banks)
2010-2014	Member, Information Systems Committee
2011-2015	Chairman, Coding and Reimbursement Committee
2012-2014	Liaison, Blood Banks and Transfusion Standards Program Unit
2015-2016	Member, Coding and Reimbursement Committee
2016-2018	National Blood Foundation Grants Review Committee Member
2018-present	Annual Meeting Abstract Review Committee
2004-present	Association of Clinical Scientists
2010 to 2012	Editorial Board, Annals of Clinical and Laboratory Science
2005-present	Clinical and Laboratory Standards Institute
2005 – 2009	Member, Subcommittee on Instrumentation (CLSI document GP31)
2010-2016	Contributor, Area Committee on Hematology, Subcommittee on Determination of Factor Coagulant Activities (CLSI document H48)
2017-present	Member, Area Committee on Hematology, Subcommittee on Collection, Transport, and Processing of Blood Specimens for Testing Plasma-Based Coagulation Assays (CLSI document H21)
2006-present	Foundation for the Accreditation of Cellular Therapy
2006-present	Collection Facility Inspector Programs Inspected: 13
2009-2012	Member, 5th Edition FACT Collection Facility (Apheresis) Standards Subcommittee
2008-present	Association of Clinical Laboratory Physicians and Scientists
2010-2013	Member, Membership Committee
2018-2021	Member, Website Committee
2019-2022	Annual Meeting Abstract Review Committee
2014-present	American Society of Clinical Pathology (ASCP)
2015-2017	Member, Committee on Reference Publications/Reference Text Editorial Board

2015-present	New York State Society of Pathologists
2015-2016	Alternate Delegate to the CAP House of Delegates
2023-present	Delegate to the CAP House of Delegates
2016-present	American Society for Apheresis
2016-2017	Member, Regional Meeting Planning Committee

Intramural

At Columbia University Medical Center:

2004-2013	Member, Transfusion Committee
2007-2013	Member, Anticoagulation Committee
2011	Member, Scholarship Oversight Committee: Laura Santos
2011-2013	Member, CHEMISTRY (Electronic Health Record) Committee

At Mount Sinai Hospital:

2013-2022	Member, Tisch Cancer Center Quality Committee
2014-2022	Member, Patient Blood Management (Blood Stewardship) Steering Committee
2014-2022	Member, Performance Improvement Committee
2015-2022	Member, Lab Value Subanalysis Committee
2015-2022	Member, The Joint Commission Committee Workgroup
2017-2022	Member, Bloodless Medicine and Surgery Workgroup
2017-2022	Member, Ruttenberg Treatment Center Faculty Advisory Board
2019-2022	Anticoagulation Committee

At Mount Sinai Beth Israel:

2015-present	Member, Patient Blood Management Steering Committee and Transfusion Committee
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At New York Eye and Ear Infirmary of Mount Sinai:

2014-2015	Member, Medical Board
2015	Chairman, Surgical Case Review Committee
2016-2020	Member, Surgical Case Review Committee

At NYU Langone Health:

2022-2023	Chair, Clinical Ancillary Services Committee
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2022-present	Member, Patient Blood Management and Transfusion Medicine Committee
2022-present	Member, Tisch Patient Safety Committee
2022-present	Member, Safety Action Group
2022-present	Member, Quality Improvement Committee
2023-present	Clinical Competency Committee, Pathology Residency Program
2023-present	Residency Advisory Committee, Pathology Residency Program
2023-present	Manhattan Perioperative Management Committee

GRANTS, CONTRACTS, FOUNDATION SUPPORT, CLINICAL TRIALS PARTICIPATION

Project	Role in Project	Dates	Award	Other Info
NYSTEM Consortia - Commercialization of Valproic Acid Expanded Cord Blood Stem Cells as Allogeneic Grafts for Adults with Refractory Hematological Malignancies	Consultant (5%)	10/2015-9/2019	\$8,782,529	Ronald Hoffman, PI Camelia Iancu-Rubin, Co-PI
IRC 002: A Randomized, Open-Label, Phase 2, Multicenter Safety and Exploratory Efficacy Study of Investigational anti-Influenza Immune Plasma for the Treatment of Influenza GCO#13-1968	Co-PI	10/2014to 3/2015		John Orpello, MD – PI Multi-Center Trial

TRAINEES *not applicable*

TEACHING ACTIVITIES

<u>Teaching Activity/Topic</u>	<u>Level</u>	<u>Role</u>	<u>Indicate Level and Number of Learners Taught, and Venue</u>	<u>Number of hours week/month/yr</u>	<u>Years Taught</u>
Transfusion Medicine and Hematology rounds	Department Level at Columbia University Medical Center	Teaching/Attending	Residents and Fellows (36)	10 weeks/year	2004-2013
Molecular Mechanisms in Health and Disease	Medical School Course at College of Physicians and Surgeons of Columbia University	Lecturer	150	16 contact hours/yr	2007-2012
Advanced Clinical Pathology	Medical School Course at College of Physicians	Lecturer	45	4 contact hours/yr	2005-2013

	and Surgeons of Columbia University				
Advanced Clinical Pathology	Medical School Course at College of Physicians and Surgeons of Columbia University	Course Director	45	35 contact hours/yr	2010-2013
Mechanisms of human disease	Graduate school at College of Physicians and Surgeons of Columbia University	Lecturer	20	2 contact hours/yr	2008-2013
Transfusion Practice	Graduate School at Rutgers University, Department of Clinical Laboratory Sciences	Lecturer	20	15 contact hours/yr	2011, 2015, 2017, 2019
Resident Lecture Series	Icahn School of Medicine at Mount Sinai, Department of Pathology, Division of Clinical Pathology	Lecturer	20	4 contact hours/yr	2013-2022
Fellow Lecture Series	Icahn School of Medicine at Mount Sinai, Department of Internal Medicine, Division of Hematology and Oncology	Lecturer	20	2 contact hours/yr	2014-2022
Transfusion Medicine and Hematology Rounds	Icahn School of Medicine at Mount Sinai, Department of Pathology, Division of Clinical Pathology	Teaching/Attending	36	10 weeks/year	2014-2022
Histology Laboratory	Icahn School of Medicine at Mount Sinai, Department of Medical Education	Teaching	100	6 hours/year	2019-2022
Resident Lecture Series	NYU Grossman School of Medicine, Pathology Residency Program	Teaching	24	3 hours/year	2022-present
Clinical Informatics Fellowship Didactics	NYU Grossman School of Medicine, Emergency Medicine, Clinical Informatics Fellowship Program	Teaching	1-2	2 hours/week	2022-present
Laboratory Management Rotation	NYU Grossman School of Medicine, Pathology Residency Program	Teaching	1-2	4 hours/week	2023-present

ADMINISTRATIVE LEADERSHIP APPOINTMENTS

INTERNAL:

Teaching:

At Columbia University Medical Center:

<u>Teaching Activity/Topic</u>	<u>Level</u>	<u>Role</u>	<u>Indicate Level and Number of Learners Taught, and Venue</u>	<u>Number of hours week/month/yr</u>	<u>Evaluation Summary</u>	<u>Years Taught</u>
Advanced Clinical Pathology	MS 4	Course Director	45	35 contact hours/yr		2010-2013

General Administration:

Intramural

At Columbia University Medical Center:

2004-2013 Director, Special Hematology and Coagulation Laboratory
2004-2013 Assistant Director, Transfusion Medicine
2005-2013 Director of Parathyroid and Islet Cell Collection, Processing and Transplantation Facility, Columbia University Medical Center Campus of NewYork-Presbyterian Hospital
2010-2013 Course Director, Advanced Clinical Pathology

At Helen Hayes Hospital:

2008-2013 Assistant Director of Clinical Laboratories, West Haverstraw, New York

At Mount Sinai Hospital:

2013-2020 Director, Blood Bank and Transfusion Service
2013-2020 Chairman, Transfusion Committee
2015-2022 System Director, Blood Bank and Transfusion Service
2019-2022 Medical Director, Center for Clinical Laboratories

At Mount Sinai Beth Israel:

2015-2022 Director, Laboratory Hematology & Coagulation
2015-2022 Assistant Director, Blood Bank

At New York Eye and Ear Infirmary of Mount Sinai:

2014-2015 Director, Department of Pathology and Laboratory Medicine
2015 Chairman, Surgical Case Review Committee
2015-2020 Assistant Director, Department of Pathology and Laboratory Medicine

At NYU Langone Health:

2022-present Director, Clinical Laboratories, NYU Langone Health System
2022-present Director, Clinical Laboratories, Tisch Hospital

2022-present Chair, Clinical Ancillary Services Committee

2023-present Director, Clinical Laboratories, Langone Orthopedic Hospital

EXTERNAL:

2011-2015 Chairman, Coding and Reimbursement Committee, AABB

PUBLICATIONS

Peer Reviewed Original Contributions

1. He B, Jhang JS, Roberts WW, Harasawa E, Chernyak Y and Cohen RJ. A physical tank study of body surface Laplacian electrocardiographic maps. Proceeding of IEEE/EMBS, 15:758-759, 1993.
2. Gharavi AG, Lipkowitz MS, Diamond JA, Jhang JS, Phillips RA. Deletion polymorphism of the angiotensin-converting enzyme gene is independently associated with left ventricular mass and geometric remodeling in systemic hypertension. Am J Cardiol 77(15):1315-9, 1996.
3. Jhang JS, Diamond JA, Phillips RA. Interobserver variability of left ventricular measurements in a population of predominantly obese hypertensives using simultaneously acquired and displayed M-Mode and 2-D Cine echocardiography. Echocardiography 14(1):9-14, 1997.
4. Gharavi AG, Diamond JA, Goldman AY, Coplan NL, Jhang JS, Steinmetz M, Goldsmith R, Phillips RA. Resting diastolic function and left ventricular mass are related to exercise capacity in hypertensive men but not in women. Am J Hypertens 11(10):1252-7, 1998.
5. Schussheim AE, Diamond JA, Jhang JS, Phillips RA. Midwall fractional shortening is an independent predictor of left ventricular diastolic dysfunction in asymptomatic patients with systemic hypertension. Am J Cardiol 82(9):1056-9, 1998.
6. Anyukhovskiy EP, Sosunov EA, Plotnikov A, Gainullin RZ, Jhang JS, Marboe CC, Rosen MR. Cellular electrophysiologic properties of old canine atria provide a substrate for arrhythmogenesis. Cardiovasc Res 54(2):462-9, 2002.
7. Jhang JS, Narayan, G, Murty VVVS, Mansukhani M. Cytogenetics of five renal oncocytomas with 11q13 rearrangements: molecular and immunohistochemical analysis of cyclin D1. Cancer Genet Cytogenet 149(2):114-9, 2004.
8. Memeo L, Jhang J, Hibshoosh H, Green PH, Rotterdam H, Bhagat G. Duodenal intraepithelial lymphocytosis with normal villous architecture: common occurrence in H. pylori gastritis. Mod Pathol 18(8):1134-44, 2005.
9. Memeo L, Jhang J, Assaad AM, McKiernan JM, Murty VV, Hibshoosh H, Tong GX, Mansukhani MM. Immunohistochemical analysis for cytokeratin 7, KIT, and PAX2: value in the differential diagnosis of chromophobe cell carcinoma. Am J Clin Pathol 127(2):1-5, 2007.
10. Jhang JS, Shaw, R, Papa J, Jefferson R, Middlesworth W, Charett K, Torloni S, Schwartz J. Therapeutic plasma exchange performed in parallel with extracorporeal membrane oxygenation for patients with acute humoral rejection after heart transplantation – feasibility, safety and efficacy. J Clin Apher 22(6):333-8, 2007.

11. Slotky R, Colovai A, Semidei-Pomales M, Patel N, Cairo M, Jhang J, Schwartz J. Determining post thaw CD34+ cell dose of cryopreserved hematopoietic progenitor cells demonstrates high recovery and confirms their integrity. *Vox Sang* 94(4):351-7, 2008.
12. Hod EA, Cadwell CM, Liepkalns JS, Zimring JC, Sokol SA, Schirmer DA, Jhang J, Spitalnik SL. Cytokine storm in a mouse model of IgG-mediated hemolytic transfusion reactions. *Blood* 112(3):891-4, 2008.
13. Padmanabhan A, Ratner LE, Jhang JS, Duong JK, Markowitz GS, Vasilescu ER, Crew RJ, Schwartz J. Comparative outcome analysis of ABO-incompatible and positive crossmatch renal transplantation: a single center experience. *Transplantation* 87(12):1889-96, 2009.
14. Padmanabhan A, Slotky R, Dael S, Jhang JS, Schwartz J. Use of the hematopoietic progenitor cell (HPC) parameter in optimizing timing of peripheral blood stem cell (PBSC) collection. *Vox Sang* 97(2):153-9, 2009.
15. Smith BR, Aguero-Rosenfeld M, Anastasi J, Baron B, Berg A, Bock JL, Campbell S, Crookston KP, Fitzgerald R, Fung M, Haspel R, Howe JG, Jhang J, Kamoun M, Koethe S, Krasowski MD, Landry ML, Marques MB, Rinder HM, Roberts W, Schreiber WE, Spitalnik SL, Tormey CA, Wolf P, and Wu YY for the Academy of Clinical Laboratory Physicians and Scientists. Educating medical students in laboratory medicine: a proposed curriculum. *Am J Clin Pathol* 133:533-542, 2010.
16. Stotler B, Reich-Slotky R, Schwartz J, Inabnet WB, Lee J, Wu F, Della-Latta P, Jhang JS. Quality monitoring of microbial contamination of cryopreserved parathyroid tissue. *Cell Tissue Bank* 12(2):111-6, 2011.
17. Guarrera JV, Stone J, Tulipan J, Jhang J, Arrington B, Boykin J, Markowitz G, Ratner LE. A novel ex-vivo porcine renal xenotransplantation model using a pulsatile machine preservation system. *Ann Transplant* 16(1):80-2, 2011.
18. *Hod EA, Brittenham GM, Billote GB, Francis RO, Ginzburg YZ, Hendrickson JE, Jhang J, Schwartz J, Sharma S, Sheth S, Sireci AN, Stephens HL, Stotler BA, Wojczyk BS, Zimring JC, Spitalnik SL. Transfusion of human volunteers with older, stored red blood cells produces extravascular hemolysis and circulating non-transferrin-bound iron. *Blood* 118(25):6675-82, 2011.
19. Arinsburg SA, Skerrett DL, Karp JK, Ness PM, Jhang J, Padmanabhan A, Gibble J, Schwartz J, King KE, Cushing MM. Conversion to low transfusion-related acute lung injury (TRALI)-risk plasma significantly reduces TRALI. *Transfusion* 52(5): 946-952, 2011.
20. *Francis RO, Jhang JS, Hendrickson JE, Zimring JC, Hod EA, Spitalnik SL. Frequency of glucose-6-phosphate dehydrogenase deficient red blood cell units in a metropolitan transfusion service. *Transfusion* 53(3):606-611, 2013.
21. Xu JZ, Francis RO, Lerebours Nadal LE, Shirazi M, Jobanputra V, Hod EA, Jhang JS, Stotler BA, Spitalnik SL, Nicholas SW. G6PD Deficiency in an HIV Clinic Setting in the Dominican Republic. *Am J Trop Med Hyg* 93(4): 722-9, 2015.
22. Stadlbauer D, Bain I, Amanat F, Jiang K, Lally K, Krammer F, Jhang JS, Arinsburg SA. "Anti-SARS-CoV-2 spike antibodies are stable in convalescent plasma when stored at 4° Celcius for at least 6 weeks." *Transfusion*. 2020 Oct;60(10):2457-2459
23. Del Valle DM, Kim-Schulze S, Huang H, Beckmann N, Nirenberg S; Wang B, Lavin Y, Swartz T, Madduri D, Stock A, Marron TU, Xie H, Patel M, van Oekelen O, Rahman A, Kovatch P, Aberg JA, Schadt E, Jagannath S, Mazumdar M, Charney A, Firpo-Betancourt A, Mendu DR, Jhang J, et al. "An inflammatory cytokine signature predicts COVID-19 severity and survival." *Nat Med*. 2020 Oct;26(10):1636-1643.

24. Jin H, reed JC, Liu STH, et al. "Three patients with X-linked agammaglobulinemia hospitalized for COVID-19 improved with convalescent plasma." *J Allergy Clin Immunol Pract*. 2020 Nov-Dec;8(10):3594-3596.e3
25. *Liu S, Lin H, Baine I, Wajnberg A, Gumprecht JP, Rahman F, Rodriguez D, Tandon P, Bassily-Marcus A, Sanky C, Dupper A, Zheng A, Altman DR, Chen BK, Krammer F, Mendu DR, Firpo-Betancourt A, Levin MA, Bagiella E, Casadevall A, Cordon-Cardo C, Jhang JS, et al. "Convalescent plasma treatment of severe COVID-19: a propensity-scored matched control study." *Nat Med*. 2020 Nov;26(11):1708-1713.
26. Wajnberg A, Mansour M, Leven E, Bouvier NM, Patel G, Firpo A, Mendu R, Jhang J, et al. "Humoral response and PCR positivity in patients with COVID-19 in the New York City region" *Lancet Microbe*. 2020 Nov;1(7):e283-e289.
27. Paranjpe I, Russak A, De Freitas JK, Lala A, Miotto R, Vaid A, Johnson KW, Danieletto M, Golden E, Meyer D, Singh M, Somani S, Manna S, Nangia U, Kapoor A, O'Hagan R, O'Reilly RF, Huckins LM, Glowe P, Kia A, Timsina P, Freeman RM, Levin MA, Jhang J, et al. "Retrospective cohort study of clinical characteristics of 2199 hospitalised patients with COVID-19 in New York City". *BMJ Open*. 2020 Nov 27;10(11):e040736.
28. Lee WT, Girardin RC, Dupuis AP, Kulas KE, Payne AF, Wong SJ, Arinsburg S, Nguyen FT, Mendu DR, Firpo-Betancourt A, Jhang J, et al. "Neutralizing antibody responses in COVID-19 convalescent sera" *J Infect Dis*. 2021 Jan 4;223(1):47-55.
29. Stadlbauer D, Tan J, Jiang K, Hernandez MM, Fabre S, Amanat F, Teo C, Arunkumar GA, McMahon M, Capuano C, Twyman K, Jhang J, et al. "Repeated cross-sectional sero-monitoring of SARS-CoV-2 in New York City" *Nature*. 2021 Feb;590(7844):146-150.
30. Nguyen F, van den Akker T, Lally K, Hansen L, Lenskaya V, Liu S, Bouvier N, Aberg J, Rodriguez D, Krammer F, Strauss D, Shaz B, Rudon L, Galton P, Jhang J, et al. "Transfusion reactions associated with COVID-19 convalescent plasma therapy for SARS-CoV-2". *Transfusion*. 2021 Jan;61(1):78-93
31. Lee WT, Girardin RC, Dupuis AP, Kulas KE, Payne AF, Wong SJ, Arinsburg S, Nguyen FT, Mendu DR, Firpo-Betancourt A, Jhang J, et al. "Neutralizing Antibody Responses in COVID-19 Convalescent Sera." *J Infect Dis*. 2021 Jan 4;223(1):47-55
32. Hernandez M, Banu R, Shrestha P, Patel A, Chen F, Cao L, Fabre S, Tan J, Lopez H, Chiu N, Shifrin B, Zapolskaya I, Flores V, Lee P, Castañeda S, Ramírez JD, Jhang J et al. "RT-PCR/MALDI-TOF mass spectrometry-based detection of SARS-CoV-2 in saliva specimens" *J Med Virol*. 2021 Sep;93(9):5481-5486. doi: 10.1002/jmv.27069. Epub 2021 May 19.
33. Crawford J, Agüero-Rosenfeld M, Aifantis I, Cadoff E, Cangiarella J, Cordon-Cardo C, Cushing M, Firpo A, Fox A, Furuya Y, Hacking S, Jhang J. "The New York State SARS-CoV-2 Testing Consortium: Regional Communication in Response to the COVID-19 Pandemic", *Acad Pathol*. 2021 May 7;8:23742895211006818.
34. Bryce C, Grimes Z, Pujadas E, Ahuja S, Beasley M, Albrecht R, Hernandez T, Stock A, Zhao Z, Al Rasheed M, Chen J, Li L, Wang D, Corben A, Haines K, Westra W, Umphlett M, Gordon RE, Reidy J, Petersen B, Salem F, Fiel M, El Jamal SM, Tsankova NM, Houldsworth J, Mussa Z, Liu WC, Veremis B, Sordillo M, Gitman M, Nowak M, Brody R, Harpaz N, Merad M, Gnjjatic S, Donnelly R, Seigler P, Keys C, Cameron J, Moultrie I, Washington K, Treatman J, Sebra R, Jhang J. et al. "Pathophysiology of SARS-CoV-2: The Mount Sinai COVID-19 autopsy experience." *Mod Pathol*. 2021 Aug;34(8):1456-1467.

35. Diaz KE, Tremblay D, Ozturk B, Ezaz G, Arinsburg S, Jhang J, Schiano T. The utility and complications of plasma administration in cirrhotic patients undergoing minimally invasive procedures. *Blood Coagul Fibrinolysis*. 2021 Oct 1;32(7):468-472.
36. Ibeh N, Baine I, Rudon LF, Lomas-Francis C, Jhang JS, et al. Use of an in-house trypsin-based method to resolve the interference of daratumumab. *Transfusion*. 2021 Oct;61(10):3000-3007
37. Cao D, Levin MA, Sartori S, Claessen B, Roumeliotis A, Zhang Z, Nicolas J, Chandiramani R, Bedekar R, Waseem Z, Goel R, Chiarito M, Lupo B, Jhang J, et al. "Perioperative risk and antiplatelet management in patients undergoing non-cardiac surgery within 1 year of PCI." *J Thromb Thrombolysis*. 2022 Feb;53(2):380-389
38. Cardillo AB, Chen D, Haghi N, O'Donnell L, Jhang JS, Genese N. Implementing Reference Ranges for Transfender and Non-Binary Patients. *JAMIA*, submitted for publication.

Other Peer Reviewed Publications (Reviews and Case Reports)

1. Jhang JS, Chang CC, Fink DJ, Kroll MH. Evaluation of linearity in the clinical laboratory. *Archiv Pathol Lab Med* 128:44-48, 2004.
2. Jhang JS, Spitalnik SL. Glycosylation and cold platelet storage. *Curr Hematol Rep* 4(6):48-7, 2005.
3. Jhang JS, Schilsky M, Lefkowitz J, Schwartz J. Plasma exchange as a bridge to transplantation in a patient with Wilson Disease presenting with fulminant liver failure, renal failure and hemolysis. *J Clin Apher* 22(1):10-4, 2007.
4. Jhang JS, Schwartz J. Bloodletting or phlebotomy: from tradition to evidence based medicine. *Transfusion* 52(3):460-2, 2012.
5. *Raciti PM, Francis RO, Spitalnik PF, Jhang JS. Acquired hemoglobin variants and exposure to glucose-6-phosphate deficient red blood cell units during exchange transfusion for sickle cell disease in a patient requiring antigen-matched blood. *J Clin Apher* 28(4):325-329, 2013.
6. Francis RO, Jhang JS, Pham HP, Zimring JC, Spitalnik SL. Glucose-6-phosphate dehydrogenase deficiency in transfusion medicine: the unknown risks. *Vox San Nov*;105(4):271-82, 2013.
7. Varghese R and Jhang J. Blood Conservation in Cardiac Surgery: In Need of a Transfusion Revolution. *Semin Cardiothorac Vasc Anesth* 2015 Dec 19(4):292-301
8. *Jhang JS, Tormey C, Winkler A, and Francis RO. How do I perform and bill for blood bank consultations? *Transfusion* Oct;57(10):2311-3218, 2017.
9. Lancman G, Arinsburg SA, Jhang J et al. Blood transfusion management for patients treated with anti-CD38 monoclonal antibodies. *Front Immunol*. 2018 Nov 15;9:2616.
10. Bressman E, Jhang J, McClaskey J, Ginzburg YZ. Tackling the unknowns in understanding and management of hospital acquired anemia. *Blood Rev* 2021 Sep;49:100830.

Edited Books

1. *Spitalnik SL, Arinsburg SA, and Jhang JS, Eds. *Clinical Pathology Board Review*. Philadelphia: Elsevier 2014.

2. Arinsburg SA, and Jhang JS, Eds. *Clinical Pathology Board Review 2nd Edition*. Philadelphia: Elsevier, in press.

Books and Book Chapters

1. Rohan J, Lifshitz MS, Jhang JS, Fink D. "Medical decision making." In *Henry's clinical diagnosis and management by laboratory methods*. Eds. McPherson RA and Pincus MR. Philadelphia: Elsevier 2007. pp 68-75.
2. Castellani WJ, Kaplan KJ, Eckfeldt JH, Floering DA, Gochman N, Hoeltge GA, Kroll MH, Levine JB, Martin ST, Pierson DM, Rabinovitch A, Schiffgens J, Jhang JS, Vazquez DA. Clinical and Laboratory Standards Institute (CLSI). *Laboratory Instrument Implementation, Verification, and Maintenance; Approved Guidelines* – First Edition. CLSI document GP31-A, Clinical Laboratory and Standards Institute, 940 West Valley Road, Suite 1400, Wayne, Pennsylvania 19087-1898, 2009.
3. Kratz A and Jhang JS. "Laboratory diagnosis of hemoglobinopathies." In *Diagnostic pediatric hematopathology*. Ed. Proytcheva M. New York: Cambridge University Press 2011. pp. 57-74.
4. Jhang JS, Sireci A, and Kratz A. "Medical decision making." In *Henry's clinical diagnosis and management by laboratory methods*. Eds. McPherson RA and Pincus MR. Philadelphia: Elsevier 2011. pp. 80-90.
5. In *Clinical Pathology Board Review*. Eds. Spitalnik SL, Arinsburg SA, and Jhang JS. Philadelphia: Elsevier 2014.
 - a. Kratz A, Sireci A, Stotler B, and Jhang JS. "Laboratory management: General principles, statistics, and test interpretation." pp. 1-21.
 - b. Kratz A, Pesce MA, and Jhang JS. "General laboratory: Instrumentation, analytical techniques, automation, point of care testing, and informatics." pp. 46-70.
 - c. Worgall TS, Spitalnik SL, and Jhang JS. "Clinical chemistry: Lipids and glycoproteins." pp. 172-180.
 - d. *Jhang JS, Kratz A, and Spitalnik PF. "Hematology: Red blood cells." pp. 237-276.
 - e. *Jhang JS and Francis RO. "Hematology: Platelets (Qualitative and Quantitative)." pp. 322-348.
 - f. *Francis RO and Jhang JS. "Coagulation: Hemostasis and Thrombosis (Anticoagulation, Thrombophilias, Fibrinolysis)." pp. 364-390.
 - g. Hod EA, Francis RO, Arinsburg SA, Jhang JS, et al. "Transfusion medicine: Blood collection, immunohematology, and transfusion services." pp. 507-561.
 - h. Arinsburg AS, Schwartz J, Hod EA, Francis RO, Jhang JS, et al. "Transfusion medicine: Therapeutic apheresis." pp. 562-578.
 - i. Schwartz J, Tanhehco YC, Arinsburg SA, Jhang JS, et al. "Transfusion medicine: Cellular therapy." pp. 579-588.
6. *Jhang JS and Lifshitz MS. "Medical decision making." In *Henry's clinical diagnosis and management by laboratory methods*. Eds. McPherson RA and Pincus MR. Philadelphia: Elsevier 2016. pp. 73-83.
7. *Jhang JS and Arinsburg SA. "Non-hemolytic transfusion reactions." In *Transfusion Medicine, Apheresis, and Hemostasis*. Eds: Pham HP and Williams LA. Philadelphia: Elsevier 2017. pp. 267-294.

8. Friedman M, Peyman B, West K, Annen K, and Jhang JS. *Immunohematology and transfusion medicine: A case study approach*. New York: Springer 2018.
9. *Jhang JS, Rudon L, and Arinsburg SA. "Transfusion medicine and cellular therapy." In *Hoffman's Atlas of Diagnostic Hematology*. Ed. Teruya-Feldstein J. Philadelphia: Elsevier 2020.
10. *Jhang JS and Lifshitz MS. "Medical decision making." In *Henry's clinical diagnosis and management by laboratory methods*. 24th edition. Eds. McPherson RA and Pincus MR. Philadelphia: Elsevier 2020, in press.

Non-Peer Reviewed Publications

1. GA Hoeltge and JS Jhang. "Shorts on Standards. Practice parameters for perioperative blood management." *CAP Today* Dec 2015: 43.
2. Jhang JS and Arinsburg SA. "Comparisons of using cesium and X-ray sources of irradiation in blood bank operations" in *Mount Sinai experience in migrating from radioactive irradiators to X-ray irradiators for blood and medical research applications*. Ed. Kamen J. New York: 2018

MEDIA RESOURCE EDUCATIONAL MATERIALS

1. Pathology Board Review, Co-editor, Elsevier, 2014-present.
<http://www.pathologyboardreview.com>
2. CP PathPrimer, Section Editor Hematology, Hemostasis, and Thrombosis, Elsevier, 2016-present
<http://www.pathprimer.com>
3. MyCAP Fast Five Challenge, Laboratory Management: Finance, 11/2023

MEDIA APPEARANCES/INTERVIEWS

1. Interview with Karen Titus. "New rays on blood safety" *CAP Today*, March 1, 2017
2. Interview with Cynthia McFadden "Could plasma infusions help save coronavirus patients?" *NBC Today Show* April 7, 2020
3. Interview with Emma Yasinski Undark. "Why autopsies are proving crucial during Covid-19" *Smithsonian Magazine* October 28, 2020
4. Interview with Tim Herrera. "What is convalescent plasma, and why do we care about it?" *New York Times*, April 24, 2021
5. Interview with Tim Herrera "What you need to know about the COVID-19 antibody test" *New York Times*, April 30, 2021
6. Interview with Maya Kaufman. "The big business of blood" *Crain's New York Business* November 8, 2021

INVITED LECTURES/PRESENTATIONS

- 4/2003-10 New York Blood Center: Current Practices in Transfusion Medicine: Human leukocyte antigens (Annual Lecture)
- 4/2007 NewYork-Presbyterian Hospital, Department of Neurology: Laboratory testing for aspirin and clopidogrel resistance
- 5/2007 1199 SEIU League Training and Upgrading Fund and the 1199 SEIU Professional and Technical Department. The Development, growing role, and influence of clinical laboratory practitioners in diverse settings and situations: The role of the hematology laboratory in cerebrovascular disease
- 5/2007 New York University School of Medicine, Department of Pathology, Human leukocyte antigens
- 1/2008 NewYork-Presbyterian Hospital, Department of Anesthesiology: Transfusion-related acute lung injury
- 4/2008 1199 SEIU League Training and Upgrading Fund and the 1199 SEIU Professional and Technical Department: Laboratory diagnosis of hemoglobinopathies
- 4/2009 1199 SEIU League Training and Upgrading Fund and the 1199 SEIU Professional and Technical Department. The role of the transfusion service in cellular therapy and tissue banking
- 4/2010 New York Blood Center, Current practices in transfusion medicine: Introduction to hemostasis
- 10/2010 AABB 63rd Annual Meeting & TXPO: Mouse models in transfusion medicine: Mouse models of von Willebrand disease: insights into platelet adhesion and von Willebrand factor function
- 4/2011 1199 SEIU League Training and Upgrading Fund and the 1199 SEIU Professional and Technical Department. The future of stem cell research in transfusion medicine
- 5/2011 The Allen Pavilion Hospital, Department of Obstetrics and Gynecology: Blood group antigens and antibodies
- 10/2011 AABB 64th Annual Meeting & TXPO. ABO mismatch transplantation: the transfusion service perspective. The role of antibody titration in solid organ transplantation
- 11/2011 New York Blood Center, Immunohematology Education Fund Seminar. Immunohematology in the Transplant Setting: Hemolysis in the transplant setting
- 4/2012 NewYork-Presbyterian Hospital, Department of Internal Medicine, Division of Hematology and Coagulation: Quality assurance in laboratory hematology
- 7/2012 NewYork-Presbyterian Hospital, Department of Pediatrics, Division of Hematology and Oncology: Case studies in the laboratory diagnosis of hemoglobinopathies
- 10/2012 AABB 64th Annual Meeting & TXPO. Coding and Reimbursement: Blood bank physician services.
- 11/2012 AABB Audioconference Series. ABO- incompatible hematopoietic stem cell transplantation (HSCT) practical considerations: patient and product testing, release criteria, and transfusion policies
- 6/2013 NewYork-Presbyterian Hospital, Department of Internal Medicine, Division of Hematology and Coagulation: Quality assurance in laboratory hematology
- 6/2013 Mount Sinai Hospital, Department of Pathology, New York, NY: Interoperability standards in laboratory information systems.

7/2013	Advance for Medical Laboratory Professionals (webinar). Anticoagulation monitoring and patient safety
10/2013	AABB 65th Annual Meeting & TXPO. Coding and Reimbursement: Molecular Pathology CPT Coding Update
10/2013	AABB 65th Annual Meeting & TXPO. The Role of a Hospital-based Tissue Program: Does one size fit all? Parathyroid cryopreservation and Autologous pancreatic islet isolation.
5/2014	Rutgers New Jersey Medical School, Department of Clinical Laboratory Sciences, New Brunswick, NJ: Case studies in advanced hemostasis
10/2014	7 th Annual Mid-Atlantic Hospital Medicine Symposium. Icahn School of Medicine at Mount Sinai, New York, NY. Transfusion triggers.
4/2015	Rutgers New Jersey Medical School, Department of Clinical Laboratory Sciences, New Brunswick, NJ: Transfusion practice
11/2015	Mount Sinai Hospital, Department of Internal Medicine Grand Rounds. New York NY. Harmful effects of transfusion.
12/2015	Mount Sinai Hospital Queens, Department of Internal Medicine Grand Rounds, Long Island City, NY. Harmful effects of transfusion and patient blood management.
5/2016	Rutgers New Jersey Medical School, Department of Clinical Laboratory Sciences, New Brunswick, NJ: Transfusion Practice, Immunohematology Pretesting
4/2017	Rutgers New Jersey Medical School, Department of Clinical Laboratory Sciences, New Brunswick, NJ: Transfusion practice
11/2017	Blood Banks Association of New York State (webinar): Radiologic Terrorism and the Blood Bank: is it time to consider X-ray irradiators?
12/2017	Rutgers New Jersey Medical School, Department of Clinical Laboratory Sciences, New Brunswick, NJ: Transfusion practice, Immunohematology pretesting
6/2018	University of Chicago, Department of Pathology, Chicago, IL: From bloodless medicine to patient blood management and back again
10/2018	AABB 70th Annual Meeting & TXPO. Boston, MA. Novel banking modalities: Autologous serum eyedrops.
04/2020	Blood Banks Association of New York State (BBANYS): Autologous Serum Eye Drops

ABSTRACTS

1. Gharavi AG, Phillips RA, Diamond JA, Jhang JS, Lipkowitz MS. Deletion polymorphism of the angiotensin-converting enzyme gene is associated with concentric remodeling of the left ventricle” American College of Cardiology 44th Annual Scientific Session, April 1995.
2. Jhang JS, Diamond JA, Phillips RA. Interobserver variability in left ventricular measurements by simultaneously obtained two-dimensional and M-mode echocardiography. 10th Scientific Meeting of the American Society of Hypertension, May 1995.

3. Gharavi AG, Diamond JA, Coplan ML, Goldman AY, Jhang JS, Steinmetz M, Phillips RA. Gender differences in the relationship between diastolic dysfunction and oxygen consumption in hypertensive subjects. American College of Cardiology, 45th annual scientific session, April 1996.
4. Jhang JS, Diamond JA, Phillips RA. Night time ambulatory systolic pressure is an independent predictor of diastolic function. 12th Scientific Meeting of the American Society of Hypertension, May 1997.
5. Jhang JS, Patel S, Phillips RA. Calcium channel blocker use in late 1996 by physicians in a tertiary care center. 12th Scientific Meeting of the American Society of Hypertension, May 1997.
6. Phillips RA, Travis A, Futterweit W, Marin K, Gharavi AG, Jhang JS, Lipkowitz M. Resistance to sodium reabsorption in polycystic ovary syndrome during hyperinsulinemic euglycemic clamp. 80th Annual Meeting of the Endocrine Society, June 1998.
7. Jhang JS, Green PHR, Rotterdam H, Bhagat G. Colon pathology in Celiac disease: correlation of histopathologic and clinical manifestations. *Modern Pathology* 14(1): 87-A, 2001.
8. Quian F, Jhang JS, Green PHR, Rotterdam H, Bhagat G. Early gastric cancer in the United States. Failure of endoscopy to increase detection. American Gastroenterology Association of Digestive Disease Week, Atlanta GA, 2001.
9. Senzel L, Alcantara R, Jhang JS, Ratner LE, Schwartz J. Plasmapheresis helps lower titers of donor-specific HLA and ABO antibodies in crossmatch positive kidney transplant recipients: a single institution's experience. American Society for Apheresis Annual Meeting, March 2005.
10. *Jhang JS, Schilsky M, Schwartz J. Plasma exchange as a bridge to transplantation in a patient with Wilson Disease presenting with fulminant liver failure, renal failure and hemolysis. American Society for Apheresis Annual Meeting, March 2006.
11. *Shaw R, Jhang JS, Papa J, Jefferson R, Lee K, Torloni S, Schwartz J. Therapeutic plasma exchange performed in parallel with extracorporeal membrane oxygenation for patients with acute humoral rejection after heart transplantation – feasibility, safety and efficacy. American Society for Apheresis Annual Meeting, March 2006.
12. *Padmanabhan A, Jhang JS, Ratner LE, Schwartz S. Plasmapheresis is effective in achieving and maintaining a high rate of allograft function in ABO incompatible renal transplants: A single institution's experience. American Society for Apheresis Annual Meeting, March 2007.
13. Padmanabhan A, Slotky R, Dael S, Jhang JS, and Schwartz J. Use of the hematopoietic progenitor cell (HPC) parameter in optimizing timing of peripheral blood stem cell (PBSC) collection. American Society for Apheresis Annual Meeting, March 2008.
14. *Stotler B, Reich-Slotky R, Schwartz J, Inabnet WB, Lee J, Wu F, Della-Latta P, Jhang JS. Quality Monitoring of Microbial Contamination of Cryopreserved Parathyroid Tissue, ACLPS Annual Meeting, June 2008.
15. *Santos L, Jhang JS, Chen J, Diacovo T. A biological platform for assessing the in vivo function of apheresis platelets. American Association of Blood Banks Annual Meeting & CTTXPO, October 2010.
16. *Francis RO, Jhang JS, Hendrickson JE, Zimring JC, Hod EA, Spitalnik SL. Frequency of glucose-6-phosphate dehydrogenase deficient red blood cell units in a metropolitan transfusion service. American Association of Blood Banks Annual Meeting & CTTXPO, October 2011.
17. Lal D., Francis RO, Jhang JS. Prevalence of hemoglobin variants in stored blood. ACLPS Annual Meeting, June 2013.

18. Pham H, Jhang JS, Peerschke E. The role of complete blood count parameters in heparin induced thrombocytopenia, ACLPS Annual Meeting, June 2013.
19. Xu ZJ, Francis RO, Hod EA, Lerebours LE, Stotler BA, Jhang JS, Nicholas SW, Spitalnik SL. G6PD Deficiency in an HIV clinic setting in the Dominican Republic, ACLPS Annual Meeting, June 2013.
20. Velliquette RW, Shakarian G, Jhang J, et al. Daratumumab-derived anti-CD38 can be easily Mistaken for clinically significant antibodies to Lutheran antigens or to Knops antigens (abstract). *Transfusion* 2015;55(3S):26A
21. Ibeh, M, Rudon, L, Lomas-Francis C, Jhang JS, et al. Validation of a trypsin-based method to resolve the interference of daratumumab. *Transfusion* 2019; 59(S3):135A
22. Cardillo A, Jhang J, Genes N. "Transgender Reference Ranges and Patient Safety, AMIA 2023 Clinical Informatics Conference.