

Nicole Lynd Draper, M.D.

Current Position

Vice Chair of Education and Associate Professor of Clinical Practice, Department of Pathology,
University of Colorado School of Medicine
Associate Medical Director, Transfusion Services, University of Colorado Hospital
Associate Director of Collection of FACT Adult Cellular Therapy Program,
University of Colorado Hospital

University of Colorado Hospital, Clinical Laboratory
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Education

B.S. (Applied Mathematics) Summa Cum Laude	Weber State University Ogden, Utah	1998
M.D.	University of Utah Salt Lake City, Utah	2003
Resident Anatomic and Clinical Pathology	University of South Florida Tampa, Florida	2003-2006
Chief Resident Anatomic and Clinical Pathology	University of South Florida Tampa, Florida	2006-2007
Fellow Oncologic Surgical Pathology	H. Lee Moffitt Cancer Center Tampa, Florida	2007-2008
Fellow Blood Banking and Transfusion Medicine	Puget Sound Blood Center Seattle, Washington	2008-2009
Certificate Essential Skills in Medical Education Program	IAMSE	2020

Appointments, Academic

USMLE Step 1 preparation course instructor Biochemistry and female reproductive sections	2003
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University of Utah School of Medicine, Salt Lake City, Utah	
Assistant Professor of Pathology University of Colorado School of Medicine, Aurora, Colorado	2009-2016
Associate Professor of Clinical Practice University of Colorado School of Medicine, Aurora, Colorado	2016-present
Vice Chair of Education for the Department of Pathology University of Colorado School of Medicine, Aurora, Colorado	2019-present
Undergraduate Medical Education Director for Pathology University of Colorado School of Medicine, Aurora, Colorado	2019-present
Integrated Sciences Content Director-Histology, Trek Curriculum University of Colorado School of Medicine, Aurora, Colorado	2021
Integrated Sciences Content Director-Pathology, Trek Curriculum University of Colorado School of Medicine, Aurora, Colorado	2020-present

Elected Positions, Academic

Housestaff Committee, Treasurer University of South Florida, Tampa Florida	2005-2007
Faculty Senate Representative for the Department of Pathology University of Colorado School of Medicine, Aurora, Colorado	2016-2018
Faculty Senate Past-President	2020-2021
Faculty Senate President	2019-2020
Faculty Senate President-Elect University of Colorado School of Medicine, Aurora, Colorado	2018-2019

Appointments, Hospital

Associate Medical Director of Transfusion Services University of Colorado Hospital, Aurora, Colorado	2009-present
Staff Physician, Without Compensation Rocky Mountain Regional VA Medical Center, Aurora Colorado	2009-present
Staff Physician Children's Hospital Colorado, Aurora, Colorado	2011-2020 2022-present

Associate Director of Collection of FACT Adult Cellular Therapy Program Apheresis Collections, University of Colorado Hospital, Aurora, Colorado	2012-present
Staff Physician UCHealth Broomfield Hospital, Broomfield, Colorado	2016-2022
Associate Medical Director of Transfusion Services UCHealth Longs Peak Hospital, Longmont, Colorado	2017-2022
CLIA Medical Director UCHealth Free Standing EDs: Aurora, Longmont and Firestone, CO	2018-2019

Professional Positions

Certified Master Tutor Student Support Services, Weber State University, Ogden, Utah	1996-1999
Supplemental Course Instructor for Biochemistry Student Support Services, Weber State University, Ogden, Utah	1998-1999
Medical office assistant Child, Adolescent and Family Center, Syracuse, Utah	1998-1999
Biochemistry Summer Software Project University of Utah School of Medicine, Salt Lake City, Utah	2000
Tutor for biochemistry and USMLE Step 1 preparation University of Utah School of Medicine, Salt Lake City, Utah	2000-2003
Cardio-kickboxing and aerobic exercise instructor University of Utah Campus Recreation, Salt Lake City, Utah	2001-2003
Pathology specimen processing VA Medical Center, Tampa, FL	2006

Honors and Awards

Teaching

Tutor of the Year for Student Support Services, Weber State University	1998
Recognition for Outstanding Service or Education, University of Colorado	2011-2013
Summit Award for Pathology Resident Teaching (top 10% of teaching evaluation scores)	2011, 2012, 2014, 2016,

Department of Pathology, University of Colorado School of Medicine	2017, 2018, 2019, 2020, 2021
Medical Student Small Group Teaching, Exceptional Service Department of Pathology, University of Colorado School of Medicine	2015, 2018, 2021
Academy of Medical Educators Induction University of Colorado School of Medicine	2019
Exemplary Performance in Teaching Pathology (highest evaluation score) Child Health Associate/Physician Assistant Program, University of Colorado	2019

Other

Alpha Epsilon Delta Honor Society, Weber State University	1997-1998
Phi Kappa Phi Honor Society, Weber State University	1997-1998
Olga V. Alexandria Logan Scholarship University of Utah School of Medicine	2000-2003
Jeno Szakacs Research Award for Outstanding Presentation University of South Florida	2007
Albert Nelson Marquis Lifetime Achievement Award Marquis Who's Who	2018
Patient Safety Role Model UCH CEO and Resident Safety Rounds	10/2020

Professional Organizations

United States and Canadian Academy of Pathology (USCAP), member	2005-2009
American Society for Clinical Pathology (ASCP), Fellow	2004-present
College of American Pathologists (CAP), Fellow	2004-present
Inspector for CAP Laboratory Accreditation Program, 2013-present	
Grassroots Champion for CAP, 2015-2018	
User Experience Panel, 2017-present	
ASFA Liaison, CAP TACT committee, 2020-present	
Pathologist Pipeline Champion, 2021-present	
Association for the Advancement of Blood and Biotherapies (AABB) Session Moderator for the Annual Meeting, 2010	2007-present

Session Director and Speaker for the Annual Meeting; 2013,2016, 2020	
AABB Accreditation Program Assessor, 2015-present	
AABB Accreditation Program Sole/Lead Assessor, 2018-present	
Annual Meeting Education Committee 2016-2020	
Annual Meeting Abstract Reviewer, 2018-present	
PEP Mentoring Program, 2018	
Uniform Donor History-HPC Task Force 2021-present	
American Society for Apheresis (ASFA)	2011-present
Clinical Applications Committee, HPC Subcommittee, 2013-present	
Annual meeting mentor for a new attendee, 2014	
Education Committee, 2015-present	
Regional Meeting Planning Committee, 2021	
Colorado Association for Continuing Medical Laboratory Education (CACMLE)	2011-2016
American Board of Pathology	2016-present
MOC Assessment Initiative Focus Group, Oct 2016	
CertLink Pilot Program participant, Oct 2017-Jan 2018	
ABPath CertLink pilot participant, July 2018-2020	
International Association of Medical Science Educators (IAMSE)	2019-present
Association of Pathology Chairs	2019-present
Directors of Undergraduate Medical Education Section (UMEDS)	
UME Laboratory Medicine Curriculum Project, 2020-2022	

Committee and Service Responsibilities

National

Blood Management Performance Pilot Test	2010
The Joint Commission	
Chair, HPC Donor Subcommittee	2019-present
Clinical Applications Committee: HPC Donor Subcommittee	2013-present
American Society for Apheresis	
Chair, Education Committee	2023-present
Chair, Practitioner Resources Subcommittee	2021-2023
Education Committee	2015-present
American Society for Apheresis	

Advocate for CAP: Grassroots Champion Under the Federal and State Affairs Committee, CAP	2015-2018
Annual Meeting Education Committee AABB	2016-2020
Transfusion, Apheresis and Cellular Therapy Committee, ASFA Liaison College of American Pathologists	2020-present
Regional Meeting Planning Committee American Society for Apheresis (ASFA)	2021
HPC Task Force, Uniform Donor History Committee AABB	2021-present
<u>University</u>	
Internal Review and Site Visit Subcommittee University of South Florida School of Medicine	2005-2006
Graduate Medical Education Committee University of South Florida School of Medicine	2006-2007
Pathology Teaching Committee Department of Pathology, University of South Florida School of Medicine	2006-2008
Resident Candidate Review/Interview Committee Department of Pathology, University of Colorado School of Medicine	2010-2013 2020-present
Clinical Pathology Conference Faculty Supervisor Department of Pathology, University of Colorado School of Medicine	2011-present
Clinical Pathology On-Call Schedule Coordinator University of Colorado Hospital and Denver VA Medical Center	2012-present
Clinical Competency Committee for Transfusion Medicine Fellowship, Chair Department of Pathology, University of Colorado School of Medicine	2014-present
Pathology Core Faculty Member, University of Colorado Hospital Clinical Learning Environment Review, ACGME	8/2014, 11/2018
Resident Didactic Curriculum Transfusion Medicine Section Director Department of Pathology, University of Colorado School of Medicine	2015-present
Co-Captain Longitudinal Integrated Basic Sciences Team Curriculum Reform Implementation Team, University of Colorado School of Medicine	2018-2020

Academy of Medical Educators University of Colorado School of Medicine	2019-present
Grand Rounds Planning Committee Department of Pathology, University of Colorado School of Medicine	2019-2021
Faculty Professionalism Award Committee Office of Faculty Affairs, University of Colorado School of Medicine	2019
Curriculum Steering Committee University of Colorado School of Medicine	2020-present
Promotion Review Committee Department of Pathology, University of Colorado School of Medicine	2020-present
Residency Program Evaluation Committee, Chair Department of Pathology, University of Colorado School of Medicine	2021-present
Faculty Ad-Hoc Committee for Student Appeal of Dismissal University of Colorado School of Medicine	2023

Hospital

Trauma Committee University of Colorado Hospital	2009-2017
Blood Utilization Review Committee Chair Blood Utilization Review Committee Member University of Colorado Hospital	2017-2021 2009-present
Blood Product Acquisition Task Force University of Colorado Hospital	2011-2015
Massive Transfusion Process Improvement Group University of Colorado Hospital	2015
Blood Cancer and BMT Program Quality Assurance Group University of Colorado Hospital	2015-present
Transfusion and Apheresis Physician Service schedule coordinator University of Colorado Hospital	2015-present
Blood Utilization Workgroup University of Colorado Hospital	2017-2020

Transfusion Committee, Chair 2017-2022
Longs Peak Hospital, Longmont, Colorado

Community

Apheresis platelet donor 2008-present
Judge, Denver Metro Regional Science and Engineering Fair 2011, 2018
Tour Guide, AABB attendee tour, University of Colorado Hospital 2013
Kidney Walk Denver, National Kidney Foundation 2014
Volunteer, 9 News Health Fair 2014
Annual Gala, National Kidney Foundation 2015
U of U Alumni Residency Program HOST 2016-present
Snow College Science Building fund 2018
U of U Alumni Stethoscope Donation Program 2019-present
Snow College Scholarship fund 2019-present

Licensure and Board Certification

Anatomic Pathology and Clinical Pathology 08/2007
American Board of Pathology

Blood Bank and Transfusion Medicine 09/2009
American Board of Pathology

Florida Training license, inactive 07/2003-06/2009

Utah Unrestricted license 04/2007-present

Washington Unrestricted license, inactive 05/2008-05/2010

Colorado Unrestricted license 07/2009-present

Review, Referee and Advisory Group Work

Ad hoc reviewer 02/2016-present
Journal of Clinical Apheresis

Ad hoc reviewer 03/2017-present
Transfusion

Invited member 4/2017
PNH National Clinical Pathology Blood Banking/Transfusion Medicine Advisory Board
Alexion Corporation

Invited member, Advisory Focus Group Apheresis HPC Mobilization and Collection, Sanofi Genzyme Corporation	5/2017
Ad hoc reviewer American Journal of Clinical Pathology	12/2017-present

Invited Lectures and Presentations

National

Dispermic Chimerism Identified During Human Leukocyte Antigen Typing for Stem Cell Transplantation. Poster presentation at AABB Annual Meeting.	10/2007
Detection of New Clinically Significant Antibodies in Alloimmunized Patients. Poster presentation at AABB Annual Meeting.	10/2009
Hemolysis After Red Cell Transfusion: Non-immune Causes Teleconference Course, ASCP	11/2011
Cases of ABO Discrepancy: Typing and Transplantation Annual Meeting Session, AABB	10/2013
Best Practice for Platelet and Plasma Transfusion Annual Convention Session, Infusion Nurses Society	05/2014
Case Studies in Type Discrepancies Live Webcast Course, ASCP	06/2014
Acute Promyelocytic Leukemia and Unique Blood Product Requirements Annual Congress Session, Oncology Nursing Society	04/2016
Clinical Challenges of Chimerism Annual Meeting Session, AABB	10/2016
RBC Products for RBC Exchange in Sickle Cell Disease: Extended Matching Annual Meeting Session, ASFA	5/2017
Plenary: The Scarlet Letter: Anti-A and Anti-IgA National Conference Session, Immunoglobulin National Society.	10/2017
Human Leukocyte Antigen Alloimmunization and ABO Blood Group in Patients with Hematologic Malignancies. Poster presentation, AABB Annual Meeting	10/2017
ABO Discrepancies Essentials Podcast, BloodBank Guy	8/2018
Emergency Transfusions Outside of the Hospital MD Workshop, America's Blood Centers	7/2019

Chimerism: Clinical Implications for Transfusion and Transplantation
Annual Meeting Session, AABB 10/2020

Moderator, Hot Topics in Cell Therapy 11/2021
Breakout Room Leader, Cell Therapy Challenges
ASFA Virtual Mini Seminar

Regional

Identification and Management of Transfusion Reactions 04/2011
Conference Session, Clinical Laboratory Collaborative Conference

Resolving ABO Discrepancies 09/2011
Teleconference Course, CACMLE

Non-Immune Causes of Hemolysis 04/2014
Conference Session, Clinical Laboratory Collaborative Conference

Options for Emergent Blood Transfusion 03/2015
EMS Conference, University of Colorado Hospital

Keynote Speaker: Red Cell and Platelet Antibodies in Pregnancy 03/2015
Spring Seminar 2015, Utah Chapter, American Society for Clinical Laboratory Science

TRALI vs TACO 10/2015
IV Therapy Symposium, Rocky Mountain Infusion Nurses Society

Best Practice for Platelet and Plasma Transfusion 03/2016
Collaborative Dinner Program, Metro Denver Oncology Nurses Society and Rocky Mountain
Infusion Nurses Society

Red Cell and Platelet Antibodies in Pregnancy 01/2019
Regional Symposium, South Central Association of Blood Banks

Ethical Issues in Blood Product Shortages 03//2023
Ethics Grand Rounds, University of Colorado Hospital and Center for Bioethics and Humanities

Local

Principles of Toxicology 2004
Pathology Grand Rounds, University of South Florida

Laboratory Statistics 2005, 2008
Pathology Grand Rounds, University of South Florida

Dispermic Chimerism Pathology Research Day, University of South Florida	06/2007
Identification of Congenital Chimerisms Blood and Tissue Resources Program, New York State Dept. of Health	03/2009
Identification of Congenital Chimerism Special presentation, Puget Sound Blood Center	05/2009
Clinical Laboratory Jeopardy Clinical Laboratory, University of Colorado Hospital	04/2010
Emergent Transfusion Issues Emergency Medicine Morbidity and Mortality Conference, University of Colorado Hospital	05/2010
Red Cell Antibodies in Pregnancy Laboratory Lunchtime Conference, Children's Hospital Colorado	07/2010
Chimeras: Who's Your Daddy? Clinical Laboratory, University of Colorado Hospital	04/2012
Putting Lab Data to Work in Clinical Cases Clinical Laboratory, University of Colorado Hospital	04/2013
ABO EZ 4U? Pathology Grand Rounds, University of Colorado School of Medicine	11/2013
Clinical Consequences of Chimerism Pathology Grand Rounds, University of Colorado School of Medicine	10/2015
Clinical Consequences of Chimerism Colorado Genetics Laboratory, University of Colorado	11/2015
Transfusion in Transplant Patients: Choosing Blood Products Wisely Manager's Forum, Bonfils Blood Center	11/2015
Acute Promyelocytic Leukemia and Unique Blood Product Requirements Pathology Grand Rounds, University of Colorado School of Medicine	10/2016
HLA Type and Platelet Refractoriness BMT APP Learning Session, University of Colorado Hospital	8/2017
Examples of Creating a Clinical Presentation Based Curriculum Longitudinal Integrated Basic Sciences Team, University of Colorado School of Medicine	12/2018

Blood Typing Workshop 2/2020
Pathology Skills Night, University of Colorado School of Medicine

Lessons in Learning: How to Provide the Best Medical Education 10/2021
Pathology Grand Rounds, University of Colorado School of Medicine

Teaching Positions

Pathology Course Director (MPAS 5130 and 5131) 07/2011-05/2018

Child Health Associate/Physician Assistant Program, University of Colorado

- Created an integrated lecture schedule with physiology/biochemistry
- Wrote consistent, uniform learning objectives
- Added gross specimen labs and interpretation/review of pathology reports
- Aided in design of new clinical presentation-based curriculum instituted July 2018

Resident Rotation Director, Blood Banking at UCH 07/2015-07/2022

Department of Pathology, University of Colorado School of Medicine

- Rewrote learning objectives, rotation syllabus and exam questions with updates at least every 2 years
- Update reading assignment questions to the new AABB technical manual every 2 years
- Created a resident didactic topic checklist
- Created resident concept check questions and fillable forms
- Created and update cases for resident teaching and review

Pathology Content Consultant 06/2017-10/2018

Child Health Associate/Physician Assistant Program, University of Colorado

- Aided in determination of lecture order and content of new clinical presentation-based curriculum instituted July 2018
- Created and revised lectures to meet the requirements of the new curriculum

Co-Block Director, Disease and Defense Block (IDPT 5004) 09/2018-06/2021

University of Colorado School of Medicine

- Revised pathology small groups to accommodate team-based type learning in 2018
- Arranged training in TBL facilitation for the pathology faculty and residents
- Revised pathology small groups to accommodate virtual groups due to COVID 19 in 2020
- Added take home points for each pathology small group
- Reworked exam questions making the majority vignette style questions
- Reviewed all course materials and assessment items for bias

Course Director, Medical Student Pathology Electives (PATH 7005, 8000) 10/2019-present

Department of Pathology, University of Colorado School of Medicine

- Manage the rotation schedules with the chief residents
- Enter grades and craft rotation comments

- Created the PATH 7005 elective for 3rd year medical students in 07/2021 with curated online video presentations explaining basic concepts in subspecialties of pathology and an associated question/answer assignment and multiple-choice question exam.

Pathology Content Director, Trek Curriculum

07/2020-present

University of Colorado School of Medicine

- Revised and approved >400 learning objectives for the Plains/1st year
- Wrote >100 new multiple choice exam items
- Solely created 22 hours and significantly revised 28 hours of content for the Plains/1st year
- Collaborated with radiology and anatomy to create 3 anatomy lab based integrated bedside cases for the Plains/1st year
- Collaborated with endocrinology and genetics to create 5 hours of integrated cases for the Plains/1st year
- Created a 1-week immunology immersion for Alpine/3rd year students in the required Advanced Science Course
- Formalized the process for shadowing/observing in the Department of Pathology

Teaching Record

Child Health Associate/Physician Assistant Course Lectures, University of Colorado

Spring 2010 (MPAS 5131) Blood Banking and Transfusion Medicine	04/2010
Spring 2011 (MPAS 5131) Blood Banking and Transfusion Medicine	03/2011
Fall 2011 (MPAS 5130) Practical Medical Statistics Introduction to Laboratory Testing Cellular Adaptation & Depositions Normal Immune Function Hypersensitivity & Autoimmunity Immunodeficiency Sequelae of Acute Inflammation & Chronic Inflammation	08/2011-11/2011
Spring 2012 (MPAS 5131) Pituitary and Adrenal Pathology Thyroid and Parathyroid Pathology Diabetes and Pancreatitis Normal Hematopoiesis and Coag Coagulation Disorders	01/2012-04/2012

Thrombocytopenia
Anemia
Transfusion Medicine
Biochemistry of Pregnancy
Placental and Neonatal Pathology
Renal testing
Complex cases

Fall 2012 (MPAS 5130) 08/2012-12/2012

Practical Medical Statistics
Introduction to Laboratory Testing
Cellular Adaptation & Depositions
Normal Immune Function
Hypersensitivity and Autoimmunity
Immunodeficiency
Sequelae of Acute and Chronic Inflammation
Biochemistry of Pregnancy
Placental and Neonatal Pathology
Pituitary and Adrenal Pathology
Thyroid and Parathyroid Pathology
Diabetes and Pancreatitis

Spring 2013 (MPAS 5131) 02/2013-04/2013

Normal Hematopoiesis and Coagulation
Coagulation Disorders
Platelet Disorders and Thrombocytopenia
Anemia
Sickle Cell Disease and Hemoglobinopathies
Transfusion Medicine
Vascular Disease, Aneurysms & Vascular Tumors
Congenital, Infectious and Neoplastic Conditions of the Urinary Tract
Glomerular and Interstitial Diseases of the Kidney
Complex Cases

Fall 2013 (MPAS 5130) 08/2013-12/2013

Basics of Pathology
Cell Injury and Adaptation
Cell Death and Depositions
Acute Inflammation and Repair
Normal Immune Function
Immunodeficiency, Hypersensitivity & Autoimmunity
Medical Statistics & Laboratory Testing
Pituitary Pathology
Diabetes and Pancreas
Adrenal Pathology

Spring 2014 (MPAS 5131)	01/2014-04/2014
<ul style="list-style-type: none"> Pathology Reports Review Normal Hematopoiesis and Coagulation Coagulation Disorders Platelet Disorders and Thrombocytopenia Anemia Sickle Cell Disease and Hemoglobinopathies Transfusion Medicine Apheresis and Therapeutic Phlebotomy Congenital, Infectious and Neoplastic Conditions of the Urinary Tract Complex Cases Gross Organ Labs: female reproductive and urinary tract 	
Fall 2014 (MPAS 5130)	08/2014-12/2014
<ul style="list-style-type: none"> Basics of Pathology Cell Injury and Adaptation Cell Death and Depositions Acute and Chronic Inflammation and Repair Normal Immune Function Immunodeficiency, Hypersensitivity and Autoimmunity HLA and Transplantation Medical Statistics and Laboratory Testing Pathology Reports Review Pituitary Pathology Diabetes and Pancreas Adrenal Pathology Gross Organ Labs: thrombosis, inflammation 	
Spring 2015 (MPAS 5131)	01/2015-04/2015
<ul style="list-style-type: none"> Normal Hematopoiesis and Coagulation Coagulation Disorders Platelet Disorders and Thrombocytopenia Anemia Sickle Cell Disease and Hemoglobinopathies Transfusion Medicine Congenital, Infectious and Neoplastic Conditions of the Urinary Tract Complex Cases Gross Organ Labs: brain, breast, urinary tract, male reproductive 	
Fall 2015 (MPAS 5130)	08/2015-12/2015
<ul style="list-style-type: none"> Basics of Pathology and Pathology Reports Cell Injury and Adaptation Cell Death and Depositions Acute and Chronic Inflammation and Repair Normal Immune Function Immunodeficiency, Hypersensitivity and Autoimmunity 	

HLA and Transplantation
Nomenclature and Classification of Neoplasms
Diabetes and Pancreas
Gross Organ Labs: thrombosis and inflammation, endocrine

Spring 2016 (MPAS 5131) 01/2016-5/2016

Normal Hematopoiesis and Coagulation
Coagulation Disorders
Platelet Disorders and Thrombocytopenia
Anemia
Sickle Cell Disease and Hemoglobinopathies
Transfusion Medicine
Congenital, Infectious and Neoplastic Conditions of the Urinary Tract
Gross Organ Labs: brain, breast, urinary tract, male reproductive, pulmonary

Fall 2016 (MPAS 5130) 08/2016-12/2016

Basics of Pathology
Cell Injury and Adaptation
Cell Death and Depositions
Acute and Chronic Inflammation and Repair
Normal Immune Function
Immunodeficiency, Hypersensitivity and Autoimmunity
HLA and Transplantation
Pregnancy and Placental Pathology
Pituitary Pathology
Adrenal Pathology
Diabetes and Pancreas
Gross Organ Labs: thrombosis and inflammation, endocrine

Spring 2017 (MPAS 5131) 01/2017-05/2017

Normal Hematopoiesis and Coagulation
Coagulation Disorders
Platelet Disorders and Thrombocytopenia
Anemia
Sickle Cell Disease and Hemoglobinopathies
Transfusion Medicine
Congenital, Infectious and Neoplastic Conditions of the Urinary Tract
Gross Organ Labs: brain, breast, urinary tract, male reproductive, pulmonary

Fall 2017 (MPAS 5130) 08/2017-12/2017

Basics of Pathology
Cell Injury and Adaptation
Cell Death and Depositions
Acute and Chronic Inflammation and Repair
Normal Immune Function
Immunodeficiency, Hypersensitivity and Autoimmunity HLA and Transplantation

Pregnancy and Placental Pathology
Pituitary Pathology
Adrenal Pathology
Diabetes and Pancreas
Gross Organ Labs: thrombosis and inflammation, endocrine

Spring 2018 (MPAS 5131) 01/2018-05/2018

Normal Hematopoiesis and Coagulation
Coagulation Disorders
Platelet Disorders and Thrombocytopenia
Anemia
Sickle Cell Disease and Hemoglobinopathies
Transfusion Medicine
Congenital, Infectious and Neoplastic Conditions of the Urinary Tract
Pulmonary Infections
Gross Organ Labs: urinary tract, male reproductive

Fall 2018 07/2018-10/2018

Introduction to Pathology
Cell Adaptation and Injury
Hemodynamics
Wound Healing
Acute Inflammation
Normal Hematopoiesis (presentation creation)
Anemia
Vitamin B12 and Folate Deficiencies
Anemia of Acute Bleeding
Basic Science of the Coagulation System
Coagulation Testing
Congenital Coagulation and Platelet Disorders
Carcinogenesis
Neoplasia: Nomenclature and Classification
Pathology of Lower GI Tract
Pathology of Upper GI Tract

Fall 2019 08/2019-9/2019

RBC Physiology and Iron Metabolism
Intro to Platelets and the Coagulation System
Platelet Disorders
Carcinogenesis
Neoplasia: Nomenclature and Classification

Fall 2020 08/2020-9/2020

RBC Physiology and Iron Metabolism
Intro to Platelets and the Coagulation System
Platelet Disorders

Carcinogenesis
Neoplasia: Nomenclature and Classification

Fall 2021 08/2021-09/2021
RBC Physiology and Iron Metabolism
Intro to Platelets and the Coagulation System
Thrombocytopenia
Blood Products
DVT
Carcinogenesis
Neoplasia: Nomenclature and Classification

Fall 2022 08/2022-09/2022
Introduction to Hematopoiesis
RBC Physiology and Iron Metabolism
Normal Coagulation System
Thrombocytopenia
Blood Products
Approach to DVT
Introduction to Carcinogenesis
Neoplasia: Nomenclature and Classification

Transfusion Medicine Fellows Conference, University of Colorado

CMV Seronegative vs Leukocyte Reduced	10/2009
Platelet Quality	11/2009
Plasma Transfusion	01/2010
ABO Discrepancies	05/2010
Red Cell Antibodies in Pregnancy	06/2010
Quality Control and Quality Assurance	08/2010
The Transfusion Service's Role in Organ Transplantation	03/2011
ABO Discrepancies	11/2011
Hematopoiesis	02/2012
Transfusion in Solid Organ Transplantation	09/2012
ABO Discrepancies	11/2012
Hematopoiesis with Practical Application	01/2013
Non-Immune Hemolysis	10/2013
Hematopoiesis with Practical Application	04/2014
Transfusion in Solid Organ Transplant	05/2014
Best Practice for Platelet and Plasma Transfusion	05/2014
Hematopoiesis with Practical Application	07/2015
Non-Immune Hemolysis	08/2015
ABO Discrepancies	09/2015
Transfusion in Solid Organ Transplantation	09/2015
Hematopoiesis with Practical Application	08/2016

Non-Immune Hemolysis	09/2016
ABO Discrepancies	10/2016
Transfusion in Solid Organ Transplantation	11/2016
Red Cell Antibodies in Pregnancy	12/2016
Coagulation Abnormalities in APL	01/2017
ABO Discrepancies	08/2017
Hematopoiesis with Practical Application	09/2017
Red Cell Antibodies in Pregnancy	12/2017
Non-Immune Hemolysis	01/2018
Coagulation Abnormalities in APL	02/2018
Transfusion in Solid Organ Transplantation	03/2018
Donor Deferrals for MSM	05/2018
Cellular Therapy	06/2018
Hematopoiesis with Practical Application	08/2018
Coagulation Abnormalities in APL	10/2018
ABO Discrepancies	01/2019
Transfusion in Solid Organ Transplantation	01/2019
Donor Deferrals for MSM	02/2019
Cellular Therapy	04/2019
IVIG	05/2019
Hematopoiesis with Practical Application	08/2019
Non-Immune Hemolysis	08/2019
Coagulation Abnormalities in APL	11/2019
ABO Discrepancies	03/2020
Donor Deferrals for MSM	04/2020
Transfusion in Solid Organ Transplantation	04/2020
Cellular Therapy	05/2020
Red Cell Antibodies in Pregnancy	05/2020

Pediatric Pathology Fellows Conference, University of Colorado

Neonatal Transfusion Issues	11/2012
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Pathology Resident Didactic Lectures, University of Colorado

Antibody Identification	08/2010
Reverse Clinicopathologic Correlation	07/2011
Presentation Skills	08/2011
ABO Typing and Antibody ID	09/2011
RBC Antibody Work-ups	08/2012
Adrenal/Endocrine Testing	10/2012
Prenatal Testing	11/2012
Laboratory Statistics	04/2013
Practical Application of Hematopoiesis	05/2013
Blood Groups and Antibody Screens	08/2013
Transfusion in Special Populations	08/2013

Presentation skills	09/2013
Complex Cases	09/2013
Reproductive Testing	10/2013
Thyroid Testing	02/2014
Blood Groups and Antibody Screens	08/2014
Coagulation Abnormalities in Acute Promyelocytic Leukemia	05/2016
Blood Groups and Antibody Screens	09/2016
Transfusion in Special Populations	04/2017
Blood Groups and Antibody Screens	11/2017
Transfusion in Special Populations	09/2018
Blood Groups and Antibody Screens	11/2019
Presentation Skills	04/2020
Laboratory Calculations-Board Review	04/2020
Visual Blood Banking	04/2020
Clinical Pathology Case Conference	08/2020
Blood Groups and Antibody Screens	09/2020
Laboratory Calculations-Board Review	04/2021
Presentation Skills	05/2021
How To Present a CP Case Conference	07/2021
Laboratory Calculations-Board Review	02/2022
Transfusion in Special Populations	04/2022
How To Present a CP Case Conference	07/2022

Pathology Resident Orientation Lectures, University of Colorado

Pre-analytic, Analytic and Post-analytic Phases	06/2021
CP Learning Strategies	07/2021
Laboratory Statistics and Error Investigation	07/2021
Pre-analytic, Analytic and Post-analytic Phases	06/2022
CP Learning Strategies	07/2022
Laboratory Statistics and Error Investigation	07/2022

Pathology Resident and Laboratory Didactic Lectures, University of South Florida

Laboratory Statistics	2007
Transfusion Associated Circulatory Overload	2007
Norovirus	2007

Medical Student Elective Lectures (PATH 8001, IDPT 8030), University of Colorado

Fall 2009	09/2009
Quality Control and Quality Assurance	
Fall 2010	10/2010
Quality and Patient Safety	
Complex Case Studies	

Fall 2011	09/2011-10/2011
Laboratory Statistics Quality and Patient Safety Complex Case Studies	
Fall 2012	09/2012-10/2012
Evidence Based Testing Quality and Patient Safety Complex Case Studies	
Fall 2014	09/2014
Evidence Based Testing Quality and Patient Safety Complex Case Studies	
Fall 2015	09/2015
Evidence Based Testing Quality and Patient Safety Complex Case Studies	
Fall 2016	09/2016
Evidence Based Testing Quality and Patient Safety Complex Case Studies	
Fall 2017	08/2017
Evidence Based Testing Quality and Patient Safety	
Fall 2018	08/2018-9/2018
Evidence Based Testing Quality and Patient Safety Complex Case Studies	
Fall 2019	08/2019-9/2019
Evidence Based Testing Quality and Patient Safety Complex Case Studies	
Fall 2021	08/2021-9/2021
Evidence Based Testing Quality and Patient Safety Complex Case Studies	
Fall 2022	08/2022-9/2022
Evidence Based Testing	

Quality and Patient Safety
Complex Case Studies

Medical Student Phase I Lecture, University of Colorado

Disease and Defense Block (IDPT 5004)	
Hemodynamic Basis of Disease	01/2015
Hemodynamic Basis of Disease	01/2016
Hemodynamic Basis of Disease	01/2017
Hemodynamic Basis of Disease	01/2018
Pathology: Introduction and Terminology	01/2019
Hemodynamic Basis of Disease	01/2019
Clinical Aspects of Common Cancers	01/2019
Pathology: Introduction and Terminology	01/2020
Hemodynamic Basis of Disease	01/2020
Clinical Aspects of Common Cancers	01/2020
Pathology: Introduction and Terminology	12/2020
Hemodynamic Basis of Disease	12/2020
Clinical Aspects of Common Cancers	12/2020
Pathology review	01/2021

Medical Student Pathology Small Group Facilitator, University of Colorado

Disease and Defense Block (IDPT 5004)	
Hemodynamics	02/2010
Inflammation and Repair	02/2011
Hemodynamics	02/2011
Inflammation, Infection and Repair	01/2014
Hemodynamics	01/2014
Inflammation, Infection and Repair	01/2015
Hemodynamics	01/2015
Neoplasia	01/2015
Inflammation, Infection and Repair	01/2016
Hemodynamics	01/2016
Hemodynamics	01/2017
Neoplasia	01/2017
Inflammation, Infection and Repair	01/2017
Hemodynamics	01/2018
Neoplasia	01/2018
Inflammation, Infection and Repair	01/2019
Hemodynamics	01/2019
Neoplasia	01/2019
Inflammation, Infection and Repair	01/2020
Hemodynamics	01/2020
Neoplasia	01/2020
Hemodynamics	12/2020

Life Cycle Block	
Female Reproductive	01/2018
Fetus, Placenta and Breast	02/2018
Maternal Pathophysiology	02/2021
Cardiovascular/Pulmonary/Renal Block (IDPT 5005)	
Valvular Disease	04/2010
Obstructive and Restrictive Disease	04/2010
Pulmonary Inflammation and Tumors	05/2010
Ischemic Disease	04/2011
Miscellaneous Cardiovascular Diseases	04/2011
Valvular Disease	04/2015
Ischemic Disease	04/2015
Cardiomyopathy and Other Diseases	04/2015
Chronic Renal Failure and Urinary Tract Infection	05/2015
Kidney and Urinary Tract Tumors	06/2015
Cardiomyopathy and Other Diseases	04/2016
Chronic Renal Failure and Urinary Tract Infection	05/2016
Chronic Renal Failure and Urinary Tract Infection	05/2017
Kidney and Urinary Tract Tumors	05/2017
Valvular Disease	04/2018
Nephritic/Nephrotic Diseases	05/2018
Chronic Renal Failure and Urinary Tract Infection	05/2018
Ischemic Disease	04/2020
Pulmonary Inflammation and Tumors	04/2020
Digestive System Block (IDPT 6002)	
Pancreas and Gallbladder	10/2014
Lower GI Tract, nonneoplastic	10/2014
Pancreas and Gallbladder	10/2015
Lower GI Tract, nonneoplastic	10/2015
GI Tumors	10/2017
Acute Liver	10/2017
Chronic Liver	10/2017
Pancreas and Gallbladder	10/2019
Acute Liver	10/2019
Pancreas and Gallbladder	10/2020
Chronic Liver	10/2020
Pancreas and Gallbladder	05/2021
GI Tumors	05/2021

Medical Student Plains Session Presentations, University of Colorado

Foundational Principles (IDPT 5016)	
Transcapillary Fluid Transport in Health and Disease	08/2021

Tissue Injury and Wound Healing	08/2021
Histopathology of Tissue Injury and Wound Healing	08/2021
Adaptive Cell Responses	08/2021
Microbiology and Soft Tissue Injury	08/2021
From Biochemical to Anatomic Response to Tissue Injury	08/2021
Tumorigenesis and Downstream Effect on the Body	08/2021
Histopathology of Cancer	08/2021
Staining of Tumors: Introduction to IHC	08/2021
Synthesis and Application: Tumor Staging	08/2021
Cancer Gross Pathology	08/2021
Histology of Muscular Pathologies	08/2021
Paraneoplastic Syndromes	09/2021
Hematology (IDPT 5017)	
The ABO and Rh Blood Groups	09/2021
Gastrointestinal (IDPT 5018)	
Upper GI Histology	10/2021
Liver Anatomy and Pathology	10/2021
Pulmonary and Cardiovascular (IDPT 5019)	
Normal Lung Histology and Pathology of Impaired Gas Exchange	11/2021
Pathology of Upper Respiratory Tract & Exposure-Related Lung Disease	11/2021
Pathology of Atherosclerosis, Ischemia, and Infarction	12/2021
Endocrine and Metabolism	
Pituitary Tumors Introduction	5/2022
Adrenal Tumors	5/2022
Foundational Principles (IDPT 5016)	
Tissue Injury and Wound Healing	08/2022
Histopathology of Tissue Injury and Wound Healing	08/2022
Mechanisms of Injury and Cell Death	08/2022
Adaptive Cell Responses	08/2022
Microbiology and Soft Tissue Injury	08/2022
From Biochemical to Anatomic Response to Tissue Injury	08/2022
Tumorigenesis and Downstream Effect on the Body	08/2022
Histopathology of Cancer	08/2022
Case-Based Review: Cancer Pathology	08/2022
Muscular Pathologies	08/2022
Paraneoplastic Syndromes	09/2022
Hematology (IDPT 5017)	
The ABO and Rh Blood Groups	09/2022

Endocrine and Metabolism	
Pituitary Tumors Introduction	5/2023
Adrenal Tumors	5/2023

Medical Student Plains Facilitated Pathology Small Group, University of Colorado

Gastrointestinal (IDPT 5018)	
Pancreas and Gallbladder	10/2021
Pulmonary and Cardiovascular (IDPT 5019)	
Pathology of Thoracic Malignancy and Benign Nodular Lesions	11/2021
Thoracic and Aortic Pathology	11/2021
Renal	
Kidney Tumors (IDPT 5021)	01/2022
UTI, CKD, Tubulointerstitial Disease	01/2022
Neurological (IDPT 5022)	
Neuropathology VITAMIN-C Lab	03/2022, 11/2022
Endocrine and Metabolism	
Pituitary Disorders	05/2022
Adrenal Disorders	05/2022
Thyroid Disorders	05/2022
Parathyroid Disorders	05/2022
Pulmonary and Cardiovascular (IDPT 5019)	
Cardiovascular Disorders	11/2022
Pathology of Upper Respiratory Tract & Exposure-Related Lung Disease	12/2022
Neurological (IDPT 5022)	
Neuropathology VITAMIN-C Lab	02/2023
Endocrine and Metabolism	
Adrenal Disorders	05/2023
Thyroid Disorders	05/2023

Medical Student Problem Based Learning Session Facilitator, University of Colorado

Phase I	
Class of 2014	08/2010-06/2011
Class of 2016	08/2012-6/2013
Class of 2020	08/2016-06/2017
Class of 2022	09/2018-05/2019
Class of 2024	10/2020-05/2021

Phase II

Class of 2014	09/2011-12/2011
Class of 2016	09/2013-12/2013
Class of 2020	09/2017-01/2018
Class of 2022	09/2019-02/2020
Class of 2024	08/2021-11/2021

Hidden Curriculum (Phases III and IV)

Class of 2014	06/2012-05/2014
Class of 2015	06/2013-06/2015
Class of 2016	06/2014-05/2016
Class of 2022	04/2020-08/2022
Class of 2024	03/2022-present

Medical Student ICC Small Group Facilitator, University of Colorado

End of Life Ethics (IDPT 7002) 12/2014, 12/2018,
01/2020, 01/2022

Shared Decision Making 3/2019, 3/2020

Pathology Specialty Advising (IDPT 7002) 01/2020, 01/2021,
01/2022, 11/2022,
02/2023

House Staff Supervision and Teaching

Pathology Residents

Blood Bank/Transfusion Medicine Rotation (10 hours/week)	07/2009-2019
Blood Bank/Transfusion Medicine Rotation (5 hours/week)	07/2020-present
Clinical Chemistry Rotation (3 hours/week)	07/2012-08/2013

Blood Bank/Transfusion Medicine Fellows (10 hours/week, 3-6 mo/year) 07/2010-present

Specialist in Blood Bank Didactic Lectures, University of Colorado Hospital

Transfusion Transmitted Disease	11/2012
Donor Notification and Lookback	11/2012
Coagulation	02/2013
Hematopoietic Progenitor Cell Collection	11/2018

Death and Dying Course Lectures (GEY 4641), University of South Florida

Death Systems 2007, 2008

Colorado Collegiate for Professional Health Development (CO-HPD) Scholars

Preceptor: providing a job shadowing experience to undergraduates

07/2015

Grant Support

Co-investigator and Blood Components Subject Matter Expert. Data, Tools and Infrastructure for Surveillance of Biologics Indefinite Delivery Indefinite Quantity (IDIQ). IQVIA-Colorado-100231, FDA Biologics Effectiveness and Safety (BEST) Initiative. U.S. FDA Center for Biologics Evaluation and Research. March-September 2019. 0.2 FTE.

Co-investigator and Blood Components Subject Matter Expert. Transfusion-related Outcome Determination. IQVIA-Colorado-100231, FDA Biologics Effectiveness and Safety (BEST) Initiative. U.S. FDA Center for Biologics Evaluation and Research. October 2019 to Sept 2020. 0.2 FTE.

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7. Yazer MH, Alcantara R, Beizai P, Draper NL, Harm SK, Kutner JM, Lin D, Poglod R, Rogers TS, Sørensen CH, Sprogøe U, Welbig J, Yuen J, Ziman A; Biomedical Excellence for Safer Transfusions (BEST) Collaborative. The crossmatch:issue ratio: use of a novel indicator and results of an international survey on red blood cell crossmatching and issuing practices. *Am J Clin Pathol.* 2016 Aug;146(2):238-43.
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11. Ho AP, Ho BE, Berg M, Draper NL, Luong P. Unique case of anti-Nak^a (CD36) antibody production and clinical approach to platelet refractoriness. *Immunohematology.* Accepted for publication with revision.
12. Pasko BE, Abbott D, Bocsi GT, Draper NL. ABO Blood Groups Are Not Associated With COVID-19 Disease Incidence and Severity When Correcting for Ethnicity Differences in Blood Type. *Am J Clin Pathol.* 2022 Aug 4;158(2):249-253. PMID: 35403671.

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2. Draper NL, Reid A, Armour R, Charapata M, AuBuchon JP. Detection of new clinically significant antibodies in alloimmunized patients. *Transfusion* 2009;49(s3):124A.
3. West FB, Draper NL, et al. Do X-ray Irradiation Hot Spots Cause Unacceptable Supernatant Potassium and Plasma Free Hemoglobin Levels? *Transfusion.* 2011;51(s3):75A.

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6. Kallan JE, Draper NL, Vinson L, Moskowitz EE, Berg M. A Rare Case of Antibody Mediated Hemolysis in a Liver Transplant Recipient due to Passenger Lymphocyte Syndrome. Poster presentation at ACLPS Annual Meeting 2015.
7. Kallan JE, Draper NL, Pruden D, Berg M. Updating the Maximum Surgical Blood Order Schedule Using Recent Surgical Data Imported from an Institution's Electronic Medical Record. Poster presentation at ACLPS Annual Meeting 2015.
8. Cooling L, Harmon C, Park YA, Dunbar N, Linenberger M, Kim HC, Murtaugh A, Schmidt A, Fernando LP, Draper N, et al. Frequent occurrence of procedure-associated thrombocytopenia in older, related allogeneic peripheral blood stem cell donors: a donor safety pilot study by the ASFA HPC subcommittee. Oral presentation at the ASFA Annual Meeting 2016.
9. Berg M, Gutman JA, Vinson L, Draper N. Late reversal of dominance after dual cord blood transplantation. *Blood* 2016 128:5796. Epub <http://www.bloodjournal.org/content/128/22/5796>
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11. Greer A, Draper NL. Human Leukocyte Antigen Alloimmunization and ABO Blood Group in Patients with Hematologic Malignancies. *Transfusion*. 2017;57(s3):174A.
12. Cooling L, Connelly-Smith L, Draper N, Park YA, Alquist C, Fernando L, Schmidt AE, Dunbar N, Schwartz J, Kim H, Jones AD, Godbey EA. Incidence and risk factors associated with central venous catheter use in matched related allogeneic peripheral blood stem cell donors: an ASFA HPC donor safety study. Plenary session abstract at ASFA Annual Meeting 2019.
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18. Cooling L, Connelly-Smith L, Park Y, Alquist CR, ...Draper N. Poor mobilization and plerixafor use in matched related peripheral blood stem cell donors. Oral presentation at ASFA Annual Meeting 2022.
19. Cooling L, Park Y, Draper N, Alquist CR, et al. Transplant recipient factors impacting the development of thrombocytopenia in matched related stem cell donors. Oral presentation at ASFA Annual Meeting 2022.
20. Cooling L, Park Y, Connelly-Smith L, Alquist CR, Draper N, et al. Factors affecting platelet suppression by G-CSF mobilization in allogeneic matched-related donors: An ASFA-HPC safety study. Plenary session presentation at ASFA Annual Meeting 2023.

Book Editor

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Book Chapters

1. Draper NL, Crooks K. "Fertilization and Early Embryonic Errors." *Chimerism: A Clinical Guide*. Springer International, 2018. 3-17.
2. Draper NL, Kallan, JE. "Passenger Lymphocyte Syndrome." *Chimerism: A Clinical Guide*. Springer International, 2018. 119-134.

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