

## Active Clinical Protocols

Institution	Title	Enrollment Criteria	Investigators	Contact person for enrollment or questions
Mount Sinai School of Medicine	IL-2 in common variable immune deficiency	CVID, antibody deficiency	C Cunningham-Rundles	
Mount Sinai School of Medicine	Blocks to B cell Development in CVID	CVID	C Cunningham-Rundles	
Mount Sinai School of Medicine	Phage Phi X174 to investigate human immunity	CVID, antibody deficiency; unclear immune defects	C Cunningham-Rundles	
Mount Sinai School of Medicine	Identifying PID amongst minorities	Immune defects	C Cunningham-Rundles	
Mount Sinai School of Medicine	Building a registry of patients with PID	All genetic Immune defects	C Cunningham-Rundles	
Milwaukee Children's	Lymphoproliferative Disorders in Patients With Primary Immunodeficiency	Primary Immunodeficiency	Dr John Routes	Meribeth Klancnik, mklancni@mcw.edu
Milwaukee Children's	Pathogenesis of Immunological Diseases/Studies in Immune Regulation	Immune diseases	Drs Grossman, Routes	Meribeth Klancnik, mklancni@mcw.edu
Milwaukee Children's	Tolerability and Pharmacokinetic Comparison of Imm14une Globulin Intraveno15us Human), 10% (Administer16ed Intravenously or Subcutaneou17sly in Subjects With PID	IVIg study in PID	Drs Grossman, Routes	Meribeth Klancnik, mklancni@mcw.edu

Milwaukee Children's	Total Memory and Switched Memory B Cell Pediatric Population	Infants and Children	Dr John Routes	Meribeth Klancnik, mklancni@mcw.edu
Milwaukee Children's	Pathogenesis of Immunological Diseases/Studies in Immune Regulation	Immune diseases	Dr Grossman Dr John Routes	Meribeth Klancnik, mklancni@mcw.edu
Children's Memorial Hospital	Cellular and Molecular Analysis of Primary Immunodeficiency Disease	All Primary Immunodeficiency Diseases	Drs Lauren Pachman and Ramsay Fuleihan	
Children's Memorial Hospital	Early Diagnosis and Stem Cell Transplantation for Severe Immunodeficiency Diseases	Severe Combined Immunodeficiency	William Tse, MD, PhD Jessica Guarino, RN, MPH, CPNP  Ramsay Fuleihan, MD Morris Kletzel, MD	
Children's Memorial Hospital	A Registry of Patients with Primary Immunodeficiency Diseases	All genetic Immune defects	Dr Ramsay Fuleihan	
CHOP	T cell Immunodeficiency Evaluation	T cell defects	Drs Kathleen Sullivan Jordan Orange	Kathleen Sullivan, sullivak@mail.med.upenn.edu
CHOP	Conditions associated with PCP	T cell defects	Dr Kathleen Sullivan	Kathleen Sullivan, sullivak@mail.med.upenn.edu
CHOP	A Registry of Patients with Primary Immunodeficiency	All genetic Immune defects	Drs Kathleen Sullivan and Jordan Orange	Kathleen Sullivan, sullivak@mail.med.upenn.edu
CHOP	Natural killer Cells and their function in human disease	NK cell defects	Dr Jordan Orange	Jordan Orange, orange@mail.med.upenn.edu

CHOP	Reinstating natural killer cell cytotoxicity and cytoskeletal dynamics in Wiskott-Aldrich syndrome with IL-2	Cytokine therapy in PID	Dr Jordan Orange	Sumita Roy-Ghanta, <a href="mailto:Sumita.Roy-Ghanta@uphs.upenn.edu">Sumita.Roy-Ghanta@uphs.upenn.edu</a>  Allison Paisley <a href="mailto:paisleya@email.chop.edu">paisleya@email.chop.edu</a>
National Institute of Allergy and Infectious Diseases	Studies of Disorders in Antibody Production and Related Primary Immunodeficiency States	X linked hyper IgM Syndrome NEMO, CVID	Dr Ash Jain	Pam Edmonds, <a href="mailto:edmondsp@niaid.nih.gov">edmondsp@niaid.nih.gov</a>
National Human Genome Research Institute	Molecular and Clinical Studies of Primary Immunodeficiency Diseases	Common variable immunodeficiency and others	Fabio Candotti	
National Institute of Allergy and Infectious Diseases	Investigating immunity in congenital immune deficiency	Immune defects	Steve Holland	Christine Spalding, <a href="mailto:cspalding@niaid.nih.gov">cspalding@niaid.nih.gov</a>
National Institutes of Allergy and Infectious Diseases	The Immune Basis for the Gastrointestinal Complications of common variable Immunodeficiency	Common Variable Immunodeficiency	Warren Strober	
National Institute of Allergy and Infectious Diseases	Studies of Immune Regulation in Patients with common variable Immunodeficiency and Related Humoral Immunodeficiency Syndromes	Common variable immunodeficiency (CVI) - IgA deficiency, hyper IgM syndrome, thymoma and agammaglobulinemia, hypogammaglobulinemia associated with Epstein-Barr infection	Warren Strober	

University of Iowa	Immunology Repository	Establish serum and DNA bank on patients seen in the Immune Disorder Clinic	Zuhair K Ballas	Darla Bartels, <a href="mailto:darla-bartels@uiowa.edu">darla-bartels@uiowa.edu</a>
University of Iowa	Natural Killer Cell Dysfunction	Clinical manifestations and associated immune dysfunction in patients with suboptimal NK cell function in COVID	Zuhair K Ballas	Darla Bartels, <a href="mailto:darla-bartels@uiowa.edu">darla-bartels@uiowa.edu</a>
University of Iowa	Immune abnormalities in patients on Epoprostenol	Clinical and molecular abnormalities in patients with pulmonary hypertension acquiring antibody deficiency	Zuhair K Ballas	Darla Bartels, <a href="mailto:darla-bartels@uiowa.edu">darla-bartels@uiowa.edu</a>
University of Iowa	Specific Antibody Deficiency	Markers and molecular abnormalities in patients with antibody deficiency with normal immunoglobulin levels	Zuhair K Ballas	Darla Bartels, <a href="mailto:darla-bartels@uiowa.edu">darla-bartels@uiowa.edu</a>
University of Iowa	Regulation of human immune responses	Examine serum cytokines, TLR function and neutrophil function in patients with suspected immunodeficiency	Zuhair K Ballas	Darla Bartels, <a href="mailto:darla-bartels@uiowa.edu">darla-bartels@uiowa.edu</a>