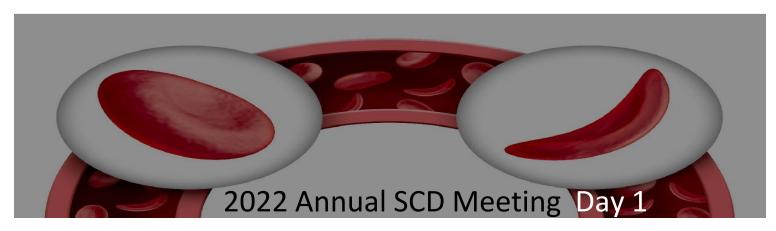


Annual SCD Virtual Meeting August 8-10, 2022





9:00-5:30pm	MONDAY MEETING TIME (EDT) – August 8 th
9:00-9:10am	Welcome and Announcements Dr. Julie Panepinto, Acting Director, Division of Blood Diseases & Resources National Heart, Lung, and Blood Institute, NIH Dr. Pankaj Qasba, Division of Blood Diseases & Resources National Heart, Lung, and Blood Institute, NIH
9:10-1:00pm	SYMPOSIUM 1
9:10-10:10am	DISPLACE: Top Line Findings Dr. Julie Kanter, University of Alabama Qualitative Assessments in DISPLACE Dr. Shannon Phillips, Medical University of South Carolina Qualitative Findings in DISPLACE Dr. Alyssa Schlenz, University of Colorado
10:10-10:40am	Optimization of Hydroxyurea Dosing in SCD; Literature Review & Results of the REACH Study (Realizing Effectiveness Across Continents With Hydroxyurea) Dr. Russell Ware, Cincinnati Children's Hospital
10:40-11:00am	The Spleen's Erythrocyte-Filtration Function and Sickle Cell Disease Dr. Ming Dao, Massachusetts Institute of Technology Dr. Pierre Buffet, Université de Paris
11:00-11:20am	Leukocyte Driven Resolution of Hepatic Injury in Sickle Cell Disease Mice Dr. Tirthadipa Pradhan-Sundd, University of Pittsburgh
11:20-11:40am	SickleInAfrica: Health and Research in Sickle Cell Disease in Africa Dr. Julie Makani, Muhimbili, University of Health and Allied Sciences, Tanzania
11:40-12:00pm	SCD CARRE: Sickle Cell Disease and Cardiovascular Risk - Red Cell Exchange Trial Dr. Darrell Triulzi, University of Pittsburgh
12:00-12:20pm	Magnetic Characterization of SCD RBCs. Potential for Diagnosis & Magnetic Removal of SCD RBCs From Transfusion Waste Dr. Jeffrey Chalmers, Ohio State University
12:20-12:50pm	LUNCH
12:50-5:00pm	SYMPOSIUM 2
12:50-3:20pm	Curative Therapies for SCD- I Chair: Dr. Lakshmanan Krishnamurti, Yale University Alemtuzumab Clearance, Lymphocyte Count, and T-cell Chimerism After Hematopoietic Stem Cell Transplant in Sickle Cell Disease Dr. Matthew Hsieh, National Heart, Lung, and Blood Institute



Improvement of Child Physical and Emotional Functioning After Familial Haploidentical Stem Cell Transplant

Dr. Susan Parsons, Tufts Medical Center

Clonal Hematopoiesis and the Risk of Hematologic Malignancies After Curative Therapies for Sickle Cell Disease

Dr. Courtney Fitzhugh, National Heart, Lung and Blood Institute

Primary Caregiver Decision-Making in Hematopoietic Cell Transplantation and Gene Therapy for Sickle Cell Disease

Dr. Cynthia Sinha, Emory University

Allogeneic Haematopoietic Stem Cell Transplantation Resets T- and B-Cell Compartments in Sickle Cell Disease Patients

Dr. Kelen Malmegrim, University of São Paulo

Long-term Survival After Hematopoietic Cell Transplant for Sickle Cell Disease Compared to the United States Population

Dr. Mary Eapen, Medical College of Wisconsin

Long-Term Health Effects of Curative Therapies on Heart, Lungs, and Kidneys for Individuals with Sickle Cell Disease Compared to Those with Hematologic Malignancies

Dr. Rohini Chakravarthy, Vanderbilt University Medical Center

A Decision Support Tool for Allogeneic Hematopoietic Stem Cell Transplantation for Children With Sickle Cell Disease

Anirudh Veludhandi, Emory University

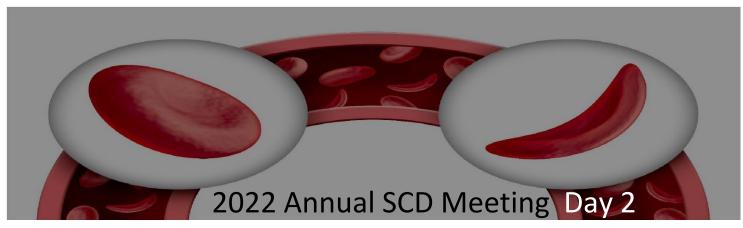
Diminished Ovarian Reserve in Young Women With Sickle Cell Anemia *Dr. Lydia Pecker, Johns Hopkins University*

Patient Reported Outcomes, Physical Function, and Fertility: STELLAR Study Dr. Lakshmanan Krishnamurti, Yale University

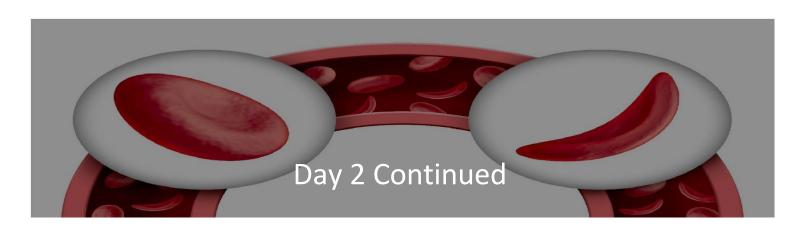
3:20-3:30pm BREAK



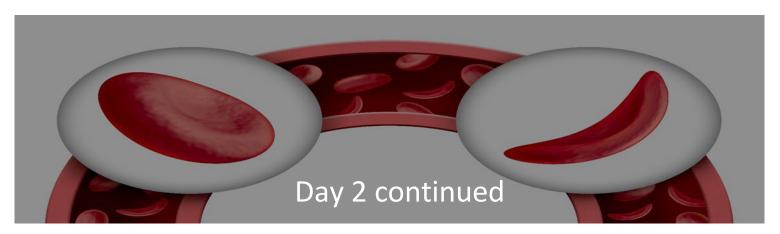
2:20 F:00nm	Curative Therapies for SCD- II (Gene Therapy/Editing)
3:30-5:00pm	Chair: Dr. Punam Malik, Cincinnati Children's Hospital
	The Sickle Bone Marrow Microenvironment
3:30-3:45pm	Dr. Leslie Silberstein, Boston Children's Hospital
	Homing and Engraftment of Genetically Modified Cells
3:45-4:00pm	Dr. Punam Malik, Cincinnati Children's Hospital
	Overview of Gene Therapy and Gene editing
4:00-4:15pm	Dr. Dan Bauer, Boston Children's Hospital
	Update on Lentiglobin Gene Therapy for SCD
4:15-4:30pm	Dr. John Tisdale, National Heart, Lung, and Blood Institute, NIH
	Base Editing for Sickle Cell Disease
4:30-4:45pm	Dr. Annarita Miccio, Imagine, Paris, France
4:45-5:00pm	Q&A
·	Curative Therapies of SCD-III (Updates on Trials Supported by NHLBI)
5:00-5:30pm	Curative Therapies of SCD-III (Opuates on Thais Supported by Wilds)
5:00-5:10pm	Updates on Allogeneic Stem Cell Transplant Trials – BMT CTN 1503: Comparison of
	BMT With Standard Care in Adults With SCD (Chairs: Krishnamurti, Walters) and BMT CTN 1507: HLA haplo-ID BMT for Sickle Cell Disease (Chairs: Kassim, Walters,
	DeBaun, Brodsky)
	Dr. Mark Walters, University of California San Francisco
	The GRASP Trial, a Phase 2 Trial to Flip the Fetal Switch in SCD
5:10-5:20pm	Dr. David A. Williams, Boston Children's Hospital
5:20-5:30pm	Q&A



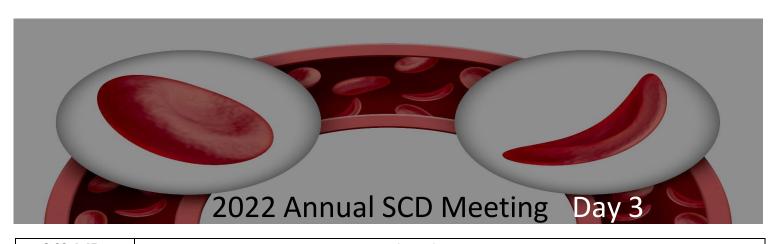
9:00-5:10pm	TUESDAY MEETING TIME (EDT) - August 9th
9:00-9:05am	Welcome and Announcements
9:05-12:40pm	SYMPOSIUM 3
9:05-10:30am	SCDC Surveillance System Dr. Mary Hulihan, Center for Disease Control and Prevention
	SCDC & Data Modernization Dr. Jane Hankins, St. Jude Children's Hospital
	SCDC & Healthcare Utilization Dr. Mariam Kayle, Duke University
	SCDC & Access To Healthcare Dr. Jhaqueline Valle, California Department of Public Health
	SCDC & Healthcare Policy Dr. Sarah Reeves, University of Michigan Dr. Dominic Smith, Michigan Department of Health and Human Services
	SCDC & COVID-19 Dr. Angela Snyder, Georgia State University
10:30-12:00pm	Findings From the Sickle Cell Disease Implementation Consortium(SCDIC-1) Chair: Dr. Robert Gibson, Augusta University
10:30-10:38am	Overview of SCDIC Dr. Robert Gibson, Augusta University
10:38-10:48am	Transforming Sickle Cell Care: A Collaborative Journey: Value of a Community Stakeholder Advisory Board Beverly Chukwudozie, Dorinda Lawrence, Bridget Reynolds, Dr. Lewis Hsu, University of Illinois at Chicago
10:48-11:00am	Life Time Narratives From Unaffiliated Individuals With SCD Dr. Robert Gibson, Augusta University Dr. Siera Gollan, Augusta University
11:00-11:12am	Multi-level Influential Factors of Hydroxyurea Adherence in Sickle Cell Disease Dr. Jane Hankins, St. Jude Children's Hospital
11:12-11:24am	ALIGNing Expectations for the Treatment of VOE in the ED Dr. Paula Tanabe, Duke University
11:24-11:36am	Evaluation of the Impact of COVID-19 on Individuals With Sickle Cell Disease in the U.S. Using Patient Reported Outcomes Dr. Priya Parikh, UCSF
11:36-11:48am	High Body Mass Index in Adults with Sickle Cell Disease: A Report from the Sickle Cell Disease Implementation Consortium Registry Dr. Stephanie Ibemere, Duke University
11:48-12:00pm	Fertility & Infertility Outcomes Among Males & Females With Sickle Cell Disease in the SCDIC Registry Dr. Eleanor Stevenson, Duke University



12:00-12:40pm	ASH Research Collaborative: Using a Clinical Trial Network to Generate
	Real World Evidence in SCD
	Chair: Dr. Charles Abrams, University of Pennsylvania
	Dr. Nicole Mortier, American Society of Hematology
	Dr. Kathleen Hewitt, American Society of Hematology
	Dr. Emily Tucker, American Society of Hematology Dr. Alexis Thompson, Children's Hospital of Philadelphia
	Dr. William Allen Wood Jr., University of North Carolina
	Dr. William Anen Wood St., Offiversity of North Carolina
12:40-1:00pm	LUNCH
1:00-5:10pm	SYMPOSIUM 4
	The Abnormal Presence of Mitochondria in Circulating Red Blood Cells
1:00-1:30pm	Associated With Stress Erythropoiesis in the Mouse Model
	Dr. Angela Rivers, University of California
1:30-3:30pm	Transformative Technologies to Assess Blood Component
	Function in Sickle Cell Disease
	Chair: Dr. Vivien Sheehan, Emory University
	OcclusionChip: a Functional Microcapillary Occlusion Assay Complementary to
	Ektacytometry for Assessing Red Cell Health in Sickle Cell Disease
	Dr. Umut Gurkan, Case Western Reserve University
	RBC Functional Analysis After Curative Cellular Therapies
	Dr. Tami John, Texas Children's Hospital/Baylor College of Medicine
	Leveraging Microfluidics Assays as Functional Analysis Tools in Sickle Cell
	Disease
	Dr. Christina Caruso, Emory University
	Production of Extensively Expanded Erythroblast Progenitors From Human
	Peripheral Blood By Bmi-1 Overexpression
	Dr. John Roback, Emory University
	Technologies for Assessing Red Cell Polymerization and Biomechanics and
	·
	Whole Blood Rheology
	Dr. David Wood, University of Minnesota
3:30-4:10pm	H3 AFRICA
•	Drs. Solomon Aquah; Ambroise Wonkam
	Dis. Solomon Aquan, Ambroise Wonkam
3:30-3:50pm	The SickleGenAfrica Cohort: Collaborative Resource for Clinical and
	Translational Research in Sickle Cell Disease
	Dr. Solomon Aquah, University of Ghana
	Dr. Solomon Aquan, Oniversity of Ghalla
3:50-4:10pm	Why We Should Invest in African Genomic Variation
	Dr. Ambroise Wonkam, University of Cape Town
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4:10-5:10pm	TOPMED
	Drs. Telen, Reiner and Early
4:10-4:30pm	Biologic Measures and Multi-omics as Prognostic Factors in SCD
	Dr. Marilyn Telen, Duke Cancer Institute
4:30-4:50pm	Proteomic analysis of Sickle Cell Trait in TOPMed
	Dr. Alex Reiner, University of Washington
4:50-5:10pm	Genome-wide Association of Early Ischemic Stroke in Brazilian Sickle Cell
	Disease Confirms Early Onset Stroke Dene ADAMTS2, CDK18, and Uncovers
	12 Novel loci
	Dr. Eric Early, RTI International



9:00-4:45pm	WEDNESDAY MEETING TIME (EDT) – August 10th
9:00-9:05am	Welcome and Announcements
9:05-12:45pm	SYMPOSIUM 5
9:05-11:05am	Multidisciplinary and Alternative Chronic Pain Management for Adults with Sickle Cell Disease Chairs: Dr. JJ Strouse, Duke University School of Medicine Dr. Julie Kanter, University of Alabama
9:05-9:10am	Welcome and Introduction The Challenge of Today Dr. JJ Strouse, Duke University School of Medicine
9:10-9:30am	Psychology and Other Mind Based Approaches for Pain Dr. Charles Jonassaint, University of Pittsburgh
9:30-9:50am	Acupuncture and Other Non-pharmacologic Modalities for Sickle Cell Disease Pain Dr. Judith Schlaeger, University of Illinois-Chicago
9:50-10:10am	Antidepressants and Antiepileptic Drugs for Pain Dr. Elizabeth Prince, Johns Hopkins School of Medicine
10:10-10:30am	Buprenorphine for Chronic Pain in SCD Sickle Dr. Patrick Carroll, Johns Hopkins University
10:30-10:50am	Panel: Question and Answer Panel Moderators: Drs. Kanter and Strouse
	Panel Participants Dr. Elizabeth Prince, Johns Hopkins University Dr. Patrick Carroll, Johns Hopkins University
10:50-11:05am	NASCC Update and Closing Remarks Dr. Julie Kanter, University of Alabama
11:05-11:25am	Modifying Sickle Cell Therapies based on Symptomatology Dr. Modupe Idowu, UTHealth Houston McGovern Medical School
11:25-11:45am	Hematopoietic Stem Cell Transplantation Reverses White Matter Injury in Sickle Cell Disease Patients Dr. Thalita Costa, University of São Paulo
11:45-12:15pm	CureSC Metadata Catalog Dr. Helen Pan, RTI International
12:15-12:45pm	What's New With Arginine Therapy in Sickle Cell Disease? Results of Phase 2 Randomized Controlled Trials in the US and Nigeria Dr. Claudia R. Morris, Emory University School of Medicine



12:45-1:15pm	LUNCH
1:15-4:45pm	SYMPOSIUM 6
1:15-2:50pm	SESSION I: Refining the Research Agenda for Pain in SCD Pain in Sickle Cell Disease
	Chairs: Drs. Wally Smith, Cheryl Stucky and Kalpna Gupta
1:15-1:30pm	Reconceptualizing Pain in SCD Dr. Wally Smith, Virginia Commonwealth University
1:30-1:50pm	Advances in SCD Pain: Bridging Basic Research and Clinical Practice Dr. Cheryl Stucky, Medicine College of Wisconsin Dr. Amanda Brandow, Medical College of Wisconsin
1:50-2:05pm	Current State of the Science in Pain Diagnosis and Management Pain Sensation and Response in SCD Dr. Claudia Campbell, Johns Hopkins University
2:05-2:20pm	SCD Pain Phenotyping and Expression, Descriptors Dr. Nitya Bakshi, Emory University
2:20-2:35pm	Opioid and non-opioid treatment for SCD: Guidelines and Practice Dr. Patrick Carroll, Johns Hopkins University
2:35-2:50pm 2:50-4:35pm	Q&A, Panel Discussion (All Speakers) SESSION II: Integrative and Technology Enhanced Approaches to Target Sickle Cell Pain Chairs: Dr. Kimberlei Richardson, Howard University Dr. Kalpna Gupta, University of California
2:50-3:08pm	Treating Sickle Cell Pain by Means of Transcranial Focused Ultrasound Neuromodulation Dr. Bin He, Carnegie Mellon University
3:08-3:26pm	Approachable Mechanism-based Integrative Strategies to Ameliorate Pain Dr. Kalpna Gupta, University of California
3:26-3:44pm	Targeting the Orexin System for Sleep Interventions and Pain Sensitivity in SCD Dr. Kimberlie Richardson, Howard University
3:44-4:02pm	Computational Analysis/Wearable Device/Sleep-pain Acquisition Dr. Michael Khoo, University of Southern California
4:02-4:20pm	Overcoming Socio-ecological Stressors With Integrative Interventions to Ameliorate Pain Dr. Sarah Martin, University of California
4:20-4:35pm	Q&A
4:35-4:45pm	Closing Remarks
	Conference Adjourn