



Advances in the Treatment of Sickle Cell Disease

MOVING TOWARD A CURE

Complimentary Virtual Symposium
May 7—8, 2025



Memorial Sloan Kettering
Cancer Center

Overview

The management of patients with Sickle Cell Disease (SCD) is a highly specialized field of hematology, growing in complexity due to advances in gene therapy and the rising frequency of hematopoietic stem cell transplants.

This requires that healthcare providers, particularly those new to caring for patients with Sickle Cell Disease, be well-versed in advanced treatments and the management of this vulnerable and often under-served population.

This complimentary two-day symposium offers a foundational overview and explores the latest advances in Sickle Cell Disease, including pathophysiology, advances in medical management, stem cell transplant and gene therapy, management of multi-system complications, psychosocial implications, and accessibility to the wide spectrum of care from a global health perspective.

Target Audience

This symposium is **complimentary for all participants** and is intended for nurse practitioners, physician assistants, nurses, physicians, and students interested in the complex care of patients with Sickle Cell Disease.

Syllabus

After the symposium concludes, attendees will receive access to an online syllabus, which will include select PDFs of faculty presentations (slides) and recorded videos.

Objectives

At the conclusion of this program, learners will be able to:

- Discuss the pathophysiology and genetic implications of SCD
- Address the common complications and clinical management of patients living with SCD
- Identify unique opportunities for individualized pain management utilizing evidenced based guidelines based on pain science for patients with SCD
- Recall current clinical management of acute vaso occlusive crisis in patients with SCD
- Identify mental health challenges and issues of health care equity in this patient population.
- Recognize the role of gene therapy and hematopoietic stem cell transplant, unique complications and management of patients with SCD

This symposium is complimentary for all participants.

Register online today:

msk.org/SickleCellSymposium

Symposium Planners



COURSE DIRECTOR

Joanne Torok-Castanza, MSN, RN, CPNP-PC, FNP

Nurse Practitioner, Pediatric Transplantation and Cellular Therapy Program
Memorial Sloan Kettering Cancer Center



PHYSICIAN SPONSOR

Maria Cancio, MD

Head of Clinical Operations, Pediatric Stem Cell Transplant and Cellular Therapies, Pediatric Hematology-Oncology;
Associate Attending, Memorial Sloan Kettering Cancer Center
Associate Professor, Weill Cornell Medical College



APP SPONSOR

Nicole Zakak, MS, RN, CPNP, CPHON®

Director, Advanced Practice Provider Quality and Professional Development
Memorial Sloan Kettering Cancer Center

PLANNING COMMITTEE MEMBERS

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Advanced Practice Provider Education Specialist
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Nurse Practitioner, Pediatric Transplantation and Cellular Therapy Program
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Kanayo Nwankwo, MD

Fellow, Pediatric Hematology Oncology
Memorial Sloan Kettering Cancer Center

Natalie Sommerville-Brooks, MSN, RN, FNP-BC

Department of Hematology/Oncology
Brookdale Hospital Medical Center

Claire Templeman, MSN, RN, CPNP-AC

Nurse Practitioner, Pediatric Transplantation and Cellular Therapy Program
Memorial Sloan Kettering Cancer Center

PATIENT PERSPECTIVE

Destiny Hannah

MSK Leadership Welcome

Jaap-Jan Boelens, MD, PhD

Chief, Pediatric Transplant and Cellular Therapy Service (TCT)
Richard J. O'Reilly Chair in Honor of Kevin Zoltan Merszei
Memorial Sloan Kettering Cancer Center

Andrew Kung, MD, PhD

Chair, Department of Pediatrics
Lila Acheson Wallace Chair for Pediatric Research
Memorial Sloan Kettering Cancer Center

Symposium Faculty

Nkechi Azinge-Egbiri, JD, PhD

Lecturer, Business and Commercial Law
Lancaster University
Lancaster, UK

Nnenna Badamosi, MD

Assistant Professor,
Pediatric Hematology and Oncology,
Medical College of Georgia;
Director of Clinical Development,
Editas Medicine
Augusta, GA

Yvonne Carroll, RN, JD

Director, Patient Services to Director – Programs, Department of Hematology
St. Jude Children's Research Hospital
Memphis, TN

Sobenna George, MD

Pediatric Endocrinologist;
Assistant Professor of Pediatrics
Department of Pediatrics,
Division of Endocrinology
Emory+ Children's Pediatric Institute
Atlanta, GA

Christine Greco, MD

Division Chief, Pain Medicine,
Department of Anesthesiology,
Critical Care and Pain Medicine,
Boston Children's Hospital;
Assistant Professor of Anaesthesia,
Harvard Medical School
Boston, MA

Julie Kanter, MD

Co-Director, Lifespan Comprehensive Sickle Cell Center;
Professor, Division of Hematology and Oncology;
Director Adult Sickle Cell Clinic
University of Alabama
Birmingham, AL

Hamda Khan, MA

Medical Anthropologist
St Jude Children's Research Hospital
Memphis, TN

Friederike Kogel, MD

Research Associate
Memorial Sloan Kettering Cancer Center
New York, NY

Adam Levin, MD

Associate Professor;
Vice Chair of Clinical Operations,
Department of Orthopaedic Surgery
Johns Hopkins Medical Center
Baltimore, MD

Deepa G. Manwani, MD

Director of Hematology, Pediatric Hematology, Oncology and Cellular Therapy;
Professor of Pediatrics
Montefiore Medical Center
Albert Einstein School of Medicine
Bronx, NY

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Kerry A. Morrone, MD

Director of the Sickle Cell Program
Assistant Professor of Pediatrics
Montefiore Medical Center
Albert Einstein School of Medicine
Bronx, NY

Ugochi Ogu, MD

Associate Professor of Medicine,
The University of Tennessee Health
Science Center;
Medical Director, Diggs-Kraus Comprehensive
Sickle Cell Center - Regional One Health
Memphis, TN

Monika Paroder, MD, PhD

Associate Professor,
Department of Pathology
Albert Einstein College of Medicine
Bronx, NY

Akshay Sharma, MD

Associate Member, Pediatric Bone Marrow
Transplantation and Cellular Therapy
St Jude Children's Research Hospital
Memphis, TN

Lori Vick, RN, PhD

Professor of Nursing,
University of South Carolina;
President, International Association of Sickle
Cell Nurses and Professional Associates
Columbia, SC

Kusum Viswanathan, MD, FAAP

CMO, One Brooklyn Health- Brookdale;
Chair, Department of Pediatrics;
Professor of Clinical Pediatrics
SUNY, Health Science University
Brooklyn, NY

Candice Young-Deler

Founder, Candice's Sickle Cell Fund, Inc.
Bronx, NY

Yaoping Zhang, MD

Visiting Associate Professor of Pediatrics;
Director, Division of Pediatric
Hematology/Oncology
SUNY Downstate Health Sciences University
Brooklyn, NY

Warrior Panel

At the close of day two, we're honored to host a Warrior Panel Discussion featuring the following panelists, sharing their insights on *Living with Sickle Cell Disease: Stories from Those Who Know It Best*.

Bùkòlá Bolarinwa

Mekhai Genfi

Destiny Hannah

Erick Hannah

Tamika Hearn

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Schedule

Wednesday, May 7

7:55 AM

ATTENDEE ZOOM SIGN-ON

Opening Remarks and Keynote Address

MODERATOR: Maria Cancio, MD

8:00 AM

Welcome and Introduction

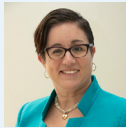
Maria Cancio, MD

Andrew Kung, MD, PhD

Nicole Zakak, MS, RN, CPNP, CPHON®

8:10 AM

KEYNOTE ADDRESS



Optimizing Gene Therapy for People with Sickle Cell Disease

Julie Kanter, MD

Co-Director of the Lifespan Comprehensive Sickle Cell Center

Professor in the Division of Hematology and Oncology

University of Alabama at Birmingham

8:40

Q&A and Discussion

Back to Basics:

Foundations of Sickle Cell Disease

MODERATOR: Claire Templeman, MSN, RN, CPNP-AC

8:50 AM

Pathophysiology of Sickle Cell Disease

Kerry A. Morrone, MD

9:20 AM

Newborn Screening and Genetic Counseling

Yvonne Carroll, RN, JD

9:50 AM

Q&A and Discussion

10:00 AM

BREAK

Common Complications of Sickle Cell Disease: Diagnosis and Management

MODERATOR: Lauren Murphy, MSN, RN, CPNP-AC

10:15 AM

Cardiovascular Complications of Sickle Cell Disease

Ugochi Ogu, MD

10:45 AM

Renal Complications of Sickle Cell Disease

Kanayo Nwankwo, MD

- 11:15 AM **Orthopedic Complications of Sickle Cell Disease**
Adam Levin, MD
- 11:45 AM **Q&A and Discussion**
- 11:55 AM LUNCH BREAK

Optimizing Emergency Care for Patients with Sickle Cell Disease

MODERATOR: Maria Cancio, MD

- 12:35 PM **Management of Acute Complications:
Acute Chest Syndrome, Splenic Sequestration,
and Stroke**
Yaoping Zhang, MD
- 1:20 PM **Case Study Review: Emergencies**
Yaoping Zhang, MD
- 1:40 PM **Q&A and Discussion**
- 1:50 PM BREAK

Supportive Care of Patients with Sickle Cell Disease: Strategies and Best Practice

MODERATOR: Claire Templeman, MSN, RN, CPNP-AC

- 2:00 PM **Medications to Manage Sickle Cell Disease**
Nnenna Badamosi, MD
- 2:30 PM **Transfusion Considerations**
Monika Paroder, MD, PhD
- 3:00 PM **Pain Management Considerations**
Christine Greco, MD
- 3:30 PM **Q&A and Discussion**
- 3:40 PM **Closing Remarks**
Claire Templeman, MSN, RN, CPNP-AC
- 3:50 PM ADJOURNMENT

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Thursday, May 8

7:55 AM ATTENDEE ZOOM SIGN-ON

8:00 AM **Welcome and Introduction**
Lauren Murphy, MSN, RN, CPNP-AC
Jaap-Jan Boelens, MD, PhD

Innovative Therapies: Advances and Future Directions

MODERATOR: Friederike Kogel, MD

8:10 AM **Hematopoietic Stem Cell Transplant for the
Treatment of Sickle Cell Disease**
Maria Cancio, MD

9:10 AM **Gene Therapy and Sickle Cell Disease**
Akshay Sharma, MD

10:10 AM **Q&A and Discussion**

10:25 AM BREAK

It Takes a Village: Care of the Whole Patient with Sickle Cell Disease

MODERATOR: Lauren Murphy, MSN, RN, CPNP-AC

10:40 AM **Mental Health Effects and Psychosocial Implications**
Lori Vick, RN, PhD

11:10 AM **Transitioning to Adult Health Systems**
Kusum Viswanathan, MD, FAAP

11:40 AM **Gonadal Function and Fertility Preservation in
Patients with Sickle Cell Disease**
Sobenna George, MD

12:10 PM **Q&A and Discussion**

12:20 PM LUNCH BREAK

Advocating for Patients with Sickle Cell Disease: Empowerment and Action

MODERATOR: Kanayo Nwankwo, MD

1:00 PM **Addressing Healthcare Equity for Patients with
Sickle Cell Disease in the United States**
Hamda Khan, MA

1:30 PM **Global Health Perspective**
Nkechi Azinge-Egbiri, JD, PhD

- 2:00 PM **Community Based Organization Advocacy**
Candice Young-Deler
- 2:30 PM **Q&A and Discussion**
- 2:40 PM **BREAK**

Living With Sickle Cell Disease: Stories From Those Who Know It Best

MODERATOR: Claire Templeman, MSN, RN, CPNP-AC

- 2:50 PM **Sickle Cell Disease Warrior Panel**
Destiny Hannah
Erick Hannah
Mekhai Genfi
Tamika Hearn (mother of Mekhai)
Bùkòlá Bolarinwa
- 3:40 PM **Q&A and Discussion**
- 3:50 PM **Closing Remarks**
Maria Cancio, MD
Claire Templeman, MSN, RN, CPNP-AC
- 4:00 PM **ADJOURNMENT**

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Accreditation

Memorial Sloan Kettering Cancer Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

AMA CREDIT DESIGNATION STATEMENT

Memorial Sloan Kettering Cancer Center designates this live activity for a maximum of **13.25 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

MOC/CC RECOGNITION STATEMENTS

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 13.25 credits/points in the following certification programs:

- Medical Knowledge MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification Assessment Recognition Program; and
- Lifelong Learning & Self-Assessment MOC points for the American Board of Pediatrics (ABP) Maintenance of Certification program.

MOC/CC points will be reported to your board within 45 days of course completion.

ANCC CNE STATEMENT

Memorial Sloan Kettering Cancer Center—Nursing Professional Development / Continuing Education is accredited with distinction as a provider of nursing continuing professional development (NCPD) by the American Nurses Credentialing Center's Commission on Accreditation.

13.25 contact hours will be awarded to participants who attend the program in its entirety and complete a program evaluation.

Partial credit not awarded.

ADVANCED PRACTICE PROVIDERS

- **American Academy of Nurse Practitioners National Certification Program** accepts AMA PRA Category 1 Credits™ from organizations accredited by the ACCME.
- **American Nurses Credentialing Center (ANCC)** accepts AMA PRA Category 1 Credits™ from organizations accredited by the ACCME.
- **National Commission on Certification of Physician Assistants (NCCPA)** accepts AMA PRA Category 1 Credits™ from organizations accredited by ACCME.





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