

Third Annual CHOP Lymphatic Disorder Conference

June 2, 2023 | 8 a.m. – 5:30 p.m.

Children's Hospital of Philadelphia
HUB for Clinical Collaboration

Learn more: chop.cloud-cme.com

*For more information about
the Lymphatic program:
<https://chop.edu/lymphatic>*



**Children's Hospital
of Philadelphia®**

Jill & Mark Fishman
Center for Lymphatic Disorders



OVERVIEW

Multidisciplinary educational conference focusing on lymphatic involvement in systematic disease, including, but not limited to, specialists from cardiology, lymphatics, neonatology, critical care/anesthesia, interventional radiology, gastroenterology, radiology, comprehensive vascular anomalies, cardiothoracic surgery and general surgery. Attendees will engage in knowledge sharing, including research and innovative therapies, and novel treatments for patients with lymphatic dysfunction.

GENERAL INFORMATION

The conference will be held in the CHOP HUB for Clinical Collaboration at Children's Hospital of Philadelphia. The registration fee is \$150, and includes continental breakfast, breaks, lunch, parking and syllabus material.

COURSE OBJECTIVES

At the completion of this program, the healthcare team will be better able to:

- Outline the factors and variables that uniquely influence the lymphatic system and contribute to the dysfunction of the lymphatics
- Describe the science and knowledge base of information that supports current state-of-the-art clinical practice for the patient with lymphatic disease
- Recall the concepts and new strategies of care and treatment for conditions of the lymphatic system
- Explain the concepts and new strategies of care and practice for individual organ systems and lymphatic disease
- Review the conditions specific to the brain, eyes, pulmonary, cardiac, liver, GI, kidney, rheumatologic, infectious and critical care lymphatic patient
- Recognize the intricacies and unique challenges of the patient with lymphatic dysfunction, their origins, and management
- Review the latest approach to advanced imaging and interventional therapies for the patient with lymphatic dysfunction
- Describe the current tools and methods available for optimal characterization of lymphatic dysfunction including genomics, imaging and testing
- Describe the many conditions that involve the lymphatic system
- Discuss the multidisciplinary approach for patients with lymphatic dysfunction and the challenges and opportunities in providing care for them

ACCME ACCREDITATION STATEMENT

Children's Hospital of Philadelphia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing education for physicians.

AMA CREDIT DESIGNATION STATEMENT

Children's Hospital of Philadelphia designates this live activity for a maximum of 7 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

NURSING CONTINUING PROFESSIONAL DEVELOPMENT APPROVED PROVIDER STATEMENT

Nurses will receive a CME certificate of completion. Nurses may use CME category 1 credits for re-licensure in many states, as well as most re-certifications. Please check your state board and certifying body for re-licensure and re-certification requirements.

HOTEL ACCOMMODATIONS

A block of rooms has been reserved at reduced rates at The Study, located just a few blocks from Children's Hospital. The group overnight rate is \$259 single and double occupancy plus a 16.25 percent room tax. Participants are required to make their own hotel reservations by calling The Study directly at 215-387-1400. Please mention the name of the conference when making your reservation. The special room rate will be available until *Thursday, May 4, 2023*. After that date, reservations will be accepted on a space and rate availability basis.



CANCELLATION AND REFUND POLICY

Children's Hospital of Philadelphia reserves the right to cancel or postpone any course due to any unforeseen circumstances. In the event of cancellation or postponement, Children's Hospital of Philadelphia will refund any registration fees, less a \$40 service charge, but is not responsible for any related costs, charges, or expenses to participants, including cancellation charges assessed by airlines or travel agencies. In order to process refunds for course withdrawals, cancellation must be received in writing by **Friday, May 19, 2023**. No refunds will be issued thereafter.

SERVICES FOR PEOPLE WITH DISABILITIES

If special arrangements are required for an individual with a disability to attend this meeting, please contact the Continuing Medical Education Department at 215-590-5263.



PROGRAM | FRIDAY, JUNE 2, 2023

- 8 a.m.** **Registration and Continental Breakfast**
- 8:30 a.m.** **Welcome and Introduction**
Yoav Dori, MD, PhD
- 8:40 a.m.** **Landmarks and Progress in Lymphatic Systemomics**
Marlys Hearst Witte, MD
- 9:10 a.m.** **Physiology and Functional Pathology of the Lymphatic System (Done virtually)**
Vibeke E. Hjortdal, MD, PhD, DMSc
- 9:30 a.m.** **Imaging of the Lymphatic System**
David M. Biko, MD, MBA
- 9:50 a.m.** **Interventional Management of Lymphatic Disorders**
Ganesh Krishnamurthy, MD, DNB
- 10:10 a.m.** **Surgical Management of Lymphatic Disorders**
Pablo Laje, MD
- 10:30 a.m.** **Break**
- 10:40 a.m.** **Lymphatic Involvement of Disease in the Human Brain**
Dan Licht, MD
- 11 a.m.** **Ocular Lymphatic: Implications for Retinal Health and Disease (Done virtually)**
Niklas Telinius, MD, PhD, DMSc
- 11:20 a.m.** **Genetic Etiologies and Genotype-Phenotype Correlations in Lymphatic Disease**
Hakon Hakonarson, MD, PhD
- 11:40 a.m.** **Panel Discussion**
*Marlys Hearst Witte, MD; David M. Biko, MD, MBA;
Ganesh Krishnamurthy, MD, DNB; Pablo Laje, MD;
Dan Licht, MD; Hakon Hakonarson, MD, PhD*
- Noon** **Lunch**
- 1 p.m.** **The Lymphatic System and its Role in Congenital Heart Disease**
Yoav Dori, MD, PhD
- 1:20 p.m.** **Pathophysiology of the Lymphatic System Dysregulation in Heart Failure Patients**
Aaron DeWitt, MD
- 1:40 p.m.** **Liver Lymphatic Anatomy and its Role in Systemic Health and Disease**
Christopher Smith, MD, PhD

- 2 p.m. **Lymphatic Dysregulation in GI Diseases**
Petar Mamula, MD
- 2:20 p.m. **The Lymphatics in Kidney Health and Disease**
Kevin E. Meyers, MBCh
- 2:40 p.m. **Break**
- 2:50 p.m. **Precision Medicine in Primary Lymphatic Disorders: A Comprehensive Review**
Alexandra Borst, MD
- 3:10 p.m. **Lymphatic Dysfunction and Pulmonary Disease**
Sanjeev Datar, MD, PhD
- 3:30 p.m. **The Role of the Lymphatic System in the Pathogenesis and Treatment of Arthritis**
Edward Behrens, MD
- 3:50 p.m. **A Comprehensive Multidisciplinary Approach for the Management of Patients with Lymphatic Disease**
Erin Pinto, MSN, CRNP
- 4:10 p.m. **Lymphatics: A Potential Target in Immunological Diseases**
Laura A. Vella, MD, PhD
- 4:30 p.m. **Lymphatic Dysfunction and Critical Illness: Current Management and New Opportunities**
Todd Kilbaugh, MD
- 4:50 p.m. **Advances in Peripheral Lymphatic Identification, Pathophysiology and Therapeutic Options**
Guido Giacalone, MD, PhD
- 5:10 p.m. **Panel Discussion**
Vibeke E. Hjortdal, MD, PhD, DMSc; Yoav Dori, MD, PhD; Aaron DeWitt, MD; Christopher Smith, MD, PhD; Petar Mamula, MD; Alexandra Borst, MD; Sanjeev Datar, MD, PhD; Edward Behrens, MD; Erin Pinto, MSN, CRNP; Laura A. Vella, MD, PhD; Todd Kilbaugh, MD; Guido Giacalone, MD; Kevin E. Meyers, MBCh
- 5:30 p.m. **Closing Remarks**
Erin Pinto, MSN, CRNP

COURSE DIRECTORS

Vanessa Bustard, BSN, RN, CPN

Nurse Coordinator, Jill and Mark Fishman Center for Lymphatic Disorders

Yoav Dori, MD, PhD

Pediatric Cardiologist

*Director, Pediatric Lymphatic Imaging and Interventions and Lymphatic Research
Associate Professor of Pediatrics*

Diane Garofalo

Clinical Care Coordinator, Jill and Mark Fishman Center for Lymphatic Disorders

Erin Pinto, MSN, CRNP

Nurse Practitioner, Jill and Mark Fishman Center for Lymphatic Disorders

COURSE FACULTY

Edward Behrens, MD

Chief, Division of Rheumatology

Assistant Professor of Pediatrics

David M. Biko, MD, MBA

Director of Pediatric Cardiovascular and Lymphatic Imaging

Interim Chief, Body Division

Attending Radiologist

Assistant Professor of Radiology

Chief of Pediatric Section, American College of Radiology Institute of Radiologic Pathology

Alexandra Borst, MD

Attending Physician

Clinical Assistant Professor of Pediatrics

Sanjeev Datar, MD, PhD

Associate Director, Physician Scientist Career Development Program

Professor of Clinical Pediatrics, Division of Critical Care

University of California, San Francisco

Aaron DeWitt, MD

Attending Cardiologist

Attending Cardiac Intensivist

Assistant Professor of Clinical Pediatrics

Guido Giacalone, MD, PhD

Attending Surgeon

Vascular and Lymphatic Surgery

Lymfocentrum, Hospital

AZ Sint-Maarten, Belgium

Hakon Hakonarson, MD, PhD

Director, Center for Applied Genomics

Investigator, The Joseph Stokes, Jr. Research Institute

Professor of Pediatrics

Vibeke E. Hjortdal, MD, PhD, DMSc

Professor of Congenital Heart Surgery, Department of Cardiothoracic Surgery Rigshospitalet Copenhagen

University Hospital, Copenhagen Denmark

Todd Kilbaugh, MD

*Medical Director, ECMO Center
Associate Director, Center for Pediatric Resuscitation
Attending Anesthesiologist
Attending Physician, PICU
Assistant Professor of Anesthesia, Critical Care and Pediatrics*

Ganesh Krishnamurthy, MD, DNB

*Interventional Radiologist
Assistant Professor of Radiology*

Pablo Laje, MD

*Attending Surgeon
Assistant Professor*

Dan Licht, MD

*Director, Wolfson Laboratory for Clinical and Biomedical Optics
Neurologist, NeuroCardiac Care Program
Professor of Neurology and Pediatrics*

Petar Mamula, MD

*Director, Kohl's GI Nutrition and Diagnostic Center (endoscopy suite)
Co-Director, Center for Digestive, Liver and Pancreatic Medicine
Attending Physician
Professor of Pediatrics*

Kevin E. Meyers, MBBCh

*Director, Hypertension Clinic
Co-Director, Lupus Integrated Nephritis Clinic
Professor of Pediatrics*

Christopher Smith, MD, PhD

*Attending Cardiologist
Assistant Professor of Pediatrics*

Niklas Telinius, MD, PhD, DMSc

*Department of Ophthalmology
Aarhus University Hospital, Denmark*

Laura A. Vella, MD, PhD

*Attending Physician, Division of Infectious Diseases
Assistant Professor of Pediatrics*

Marlys Hearst Witte, MD

*Professor, Surgery, Neurosurgery and Pediatrics
Director, Student Research Programs
Secretary-General, International Society of Lymphology
University of Arizona College of Medicine-Tucson, Arizona*