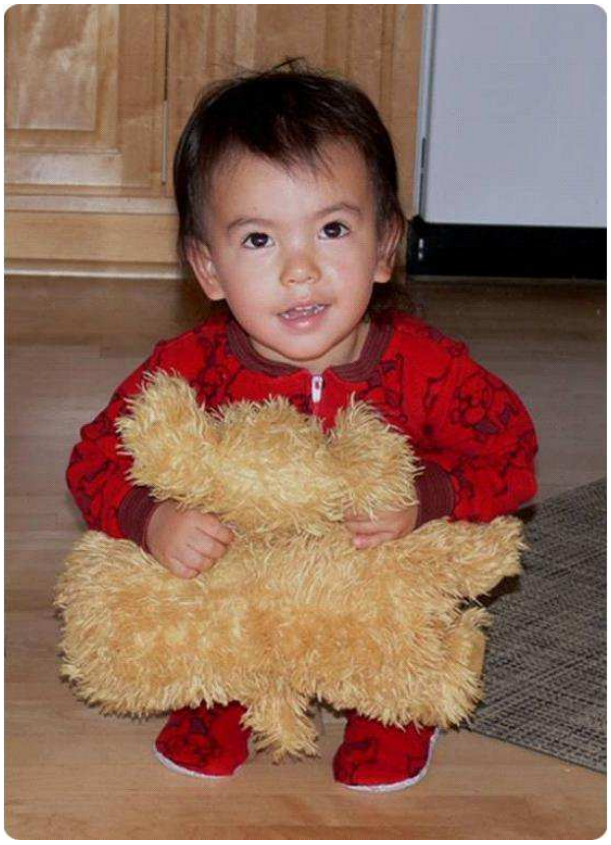
Seattle Children's
Continuing Medical Education

A Practical Introduction to Mitochondrial Disease for the Primary Care Provider



Saturday
May 1, 2010

Seattle Children's
Wright Auditorium

Presented by:

Seattle Children's
HOSPITAL • RESEARCH • FOUNDATION

UW Medicine
SCHOOL OF MEDICINE

PROGRAM

Saturday, May 1, 2010

8:00 am **Registration and Continental Breakfast**

8:30 am **Introduction and Welcome**
Russell P. Saneto, DO, PhD

8:45 am **Bioenergetics, A New Medicine Category: Introduction To Mitochondrial Disease.**
Bruce H. Cohen, MD

9:45 am **Clinical Red Flags For Mitochondrial Disease: Suspicion Of Disease By Committee.**
Russell P. Saneto, DO, PhD

10:20 am **How To Work Up A Possible Patient For Mitochondrial Disease:**

- Labs, Labs, Labs: Why Perform So Many and What Do They Mean?
  Bruce H. Cohen, MD

- Should You Be Concerned About What Happens Before and After Surgery and Anesthesia?
  Phillip Morgan, MD

11:30 am **Mitochondrial DNA: How Can Such A Small Piece of DNA Cause So Much Trouble? Genetics of Mitochondrial Disease**
Russell P. Saneto, DO, PhD

12:10 pm **Summary**

12:20 pm **Lunch (provided)**

1:00 pm **Case Studies: Putting It All Together.**

<u>Case 1</u>: Patient with progression of weakness and respiratory problems leading to acute hypotension with pulmonary hemorrhage.

Bruce H. Cohen, MD; Phillip Morgan, MD;
Russell P. Saneto, DO, PhD.

<u>Case 2</u>: Patient with focal seizures, slow progressive cognitive decline, GI dysmobility and liver failure.

Bruce H. Cohen, MD; Phillip Morgan, MD;
Russell P. Saneto, DO, PhD.

2:30 pm **Adjourn**

GENERAL INFORMATION

Course Description

This educational program is designed to provide primary care providers with practical tools to raise awareness of signs and symptoms of mitochondrial disease, to engage in an appropriate diagnostic process, and to develop communication strategies with patients and families in the management of mitochondrial disease.

Who Should Attend

- Pediatricians
- Family Physicians
- Physician Assistants
- Nurses
- Nurse Practitioners

Course Location

Seattle Children's - Wright Auditorium
4800 Sand Point Way NE
Seattle, WA 98105
Parking instructions, map & directions will accompany your confirmation letter.

Course Objectives:

At the conclusion of this activity, participants will be able to:

- Evaluate the unique physiology of the mitochondrion and the broad range of disease phenotypes that it can cause.
- List clinical red flags that may indicate possible mitochondrial disease.
- Evaluate patients for possible mitochondrial disease in the office setting.
- Determine when to use a different approach concerning anesthesia, IV fluid management and perisurgical care in patients with mitochondrial disease.
- Assess unique genetics of the mitochondrion and how this relates to disease.
- Integrate the new knowledge of mitochondrion physiology and genetics to identify a possible patient with mitochondrial disease.

Planning/Organization

- Russ Saneto, DO, PhD
- Phillip Morgan, MD
- Bruce Cohen, MD
- Kathie Kohorn, CME Coordinator

Accreditation

Seattle Children's is accredited by the Washington State Medical Association CME Accreditation Committee to sponsor continuing medical education for physicians.

Seattle Children's designates this educational activity for a maximum of 5.5 hours in Category I to satisfy the re-licensure of the Washington State Medical Quality Assurance Commission.

Seattle Children's designates this education activity for a maximum *of 5.5 AMA PRA Category 1 Credits™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

FACULTY

Faculty

Bruce H. Cohen, MD earned his medical degree in 1982 from the Albert Einstein College of Medicine in Bronx, N.Y. Following his pediatrics residency at the Children's Hospital of Philadelphia, he served as a resident-fellow at Columbia Presbyterian Medical Center in N.Y., where he specialized in pediatric neurology. He then went to the Children's Hospital of Philadelphia as an American Cancer Society Fellow to serve a two-year fellowship in neuro-oncology. Dr. Cohen joined Cleveland Clinic's Department of Neurology in 1989. Dr. Cohen served as Chief of the Section of Pediatric Neurology from 1999-2002. He holds the title of Professor of Medicine at The Lerner Neurological Institute and Pediatric Institute at The Cleveland Clinic. He was elected President of The Professors of Child Neurology. Dr. Cohen's specialty interests include adult and pediatric neuro-oncology, mitochondrial medicine, neurofibromatosis, neurometabolic diseases and pediatric neurology.

Phillip Morgan, MD graduated from Caltech and later earned his medical degree from the University of Colorado, Denver, CO. Following his anesthetic residency at Case Western Reserve in Cleveland, OH he did a pediatric anesthesia/research fellowship at the University of Washington in Seattle, WA. Along with his collaborator and wife, Margaret Sedensky, they returned to Case Western and began a genetic study of the action of anesthetics. During their work in Cleveland, they developed a deep interest in the role of mitochondrial disease in the perioperative period. This interest has led them to study the contributions of mitochondria to the anesthetic response and to aging in addition to basic mitochondrial disease processes. Drs. Morgan and Sedensky now focus their work on mitochondrial function and the perioperative care of patients with mitochondrial disease

Russell P. Saneto, DO, PhD earned his doctoral degree from the University of Texas Medical Branch in Galveston, Texas, in human biochemical genetics. He did a postdoctoral fellowship at UCLA in the lab of Dr. Jean deVellis in developmental neurobiology. He then went to Des Moines University school of Osteopathic Medicine and Surgery. After graduating from medical school in three years he did his pediatric, pediatric neurology, and pediatric neurophysiology fellowship at the Cleveland Clinic in Cleveland, Ohio. Dr Saneto then joined the faculty at the University of Washington and Seattle Children's in 2001. Currently, he is an Associate Professor of Neurology and Adjunct Associate Professor of Pediatrics at both institutions. Dr. Saneto's clinical interests are in the diagnosis and treatment of intractable epilepsies, including medical, dietary, and surgical interventions. He also has a very strong interest in neurometabolic and neurogenetics in general and their relationship to mitochondrial disease in particular. His research interests are centered on the diagnosis and treatment of mitochondrial disease and patients with the co-morbidity of epilepsy and mitochondrial disease.

Registration and Cancellation Policy

You must pre-register; there is no registration at the door. Space is limited; registrations will be accepted in the order they are received. We do not accept telephone registrations, but purchase orders, VISA and MasterCard are accepted, and for your convenience, you may fax your registration to us at (206) 987-5798.

Once your registration has been processed, requests for cancellations will be honored, minus a $20 processing fee, up to three days prior to the meeting. **No refunds will be issued after April 28, 2010.**

A confirmation letter along with a map, driving instructions and parking information will be sent upon receipt of your completed registration form and payment.

REGISTRATION

Mitochondrial Disease
May 1, 2010

PRE- REGISTRATION REQUIRED by noon April 28, 2010

Course Fee: $100 (includes catering, instructional materials and CME credit):

Link to on-line registration at:
http://www.seattlechildrens.org/healthcare-professionals/education/cme/calendar/#Mitochondrial%20Disease

Please complete and return this form by noon April 28 online or by mailing or faxing to:

Seattle Children's CME
P.O. Box 5371, Mail Stop S-219A
Seattle, WA 98145-5005
OR
FAX: 206/987-5798

PLEASE PRINT

Name:_____

Specialty:_____

Address:_____

_____

Phone:_____

Fax/Email:_____

PAYMENT:

☐ Check Enclosed. *Payable in US funds to*: **Seattle Children's CME**

☐ VISA ☐ MasterCard ☐ Purchase Order

Card Number:_____

Expiration Date:_____