



The Spectrum of Developmental Disabilities XLIII:
Complex Care:
Neurodevelopmental Aspects of Severe Neurologic Impairment
March 21-23, 2022
Internet Live Conference

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This activity has been approved for AMA PRA Category 1 Credits™.

Jointly Provided by
Johns Hopkins School of Medicine
Division of Child Development, Department of Pediatrics
and
Kennedy Fellows Association
Kennedy Krieger Institute

March 21-23, 2022
Internet Live Conference



The Spectrum of Developmental Disabilities XLIII
Complex Care: Neurodevelopmental Aspects of Severe Neurologic Impairment

CONTINUING MEDICAL EDUCATION

Mark Your Calendar for
The Spectrum of Developmental Disabilities XLIII
March 20-22, 2022

Non-Profit Org
U.S. Postage
PAID
Baltimore, NJ
Permit No. 2134

GENERAL INFORMATION

DESCRIPTION

This multidisciplinary, three-day conference will focus on neurodevelopmental aspects of severe neurologic impairment. It will address the public health implications, underlying neurobiology, ethics, management strategies and outcomes for this large group of disorders.

WHO SHOULD ATTEND

This activity is intended for pediatricians, neurodevelopmentalists, developmental behavioral pediatricians, child neurologists, child psychiatrists, educators, nurses, nurse practitioners, occupational therapists, psychologists, speech-language pathologists physical therapists, physician assistants and social workers.

OBJECTIVES

After attending this activity, the learner will demonstrate the ability to:

- Define severe neurologic impairment and distinguish it from complex care.
- List three techniques to prevent pneumonia in patients with severe neurologic impairment.
- Discuss the later effects that occur after a primary injury.
- Utilize the principles presented to create a comprehensive management program for their patients with severe neurologic impairment.
- Evaluate the application of stem cell or gene therapy for children with severe neurologic impairment.

ACCREDITATION STATEMENT

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Johns Hopkins University School of Medicine and Kennedy Fellows Association. The Johns Hopkins University School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.



CREDIT DESIGNATION STATEMENT

The Johns Hopkins University School of Medicine designates this live activity for a maximum of 16.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

MAINTENANCE OF CERTIFICATION

The American Board of Psychiatry and Neurology has reviewed The Spectrum of Developmental Disabilities XLIII: Complex Care: Neurodevelopmental Aspects of Severe Neurologic Impairment and has approved this program as part of a comprehensive self-assessment program, which is mandated by the ABMS as a necessary component of Maintenance of Certification.

American Board of Pediatrics (ABP)

Completion of this activity and associated assessment enables the participant to earn 16.75 ABP MOC Part 2 points.

OTHER CREDITS



Kennedy Krieger Institute
Various Level
Up to 1.7 ASHA CEUs

American Nurses Credentialing Center (ANCC) accepts AMA PRA Category 1 Credits™ from organizations accredited by the ACCME.

American Academy of Nurse Practitioners National Certification Program accepts AMA PRA Category 1 Credits™ from organizations accredited by the ACCME.

National Commission on Certification of Physician Assistants (NCCPA)

PAs may claim a maximum of 16.75 Category 1 credits for completing this activity. NCCPA accepts AMA PRA Category 1 Credit™ from organizations accredited by ACCME or a recognized state medical society.

The Johns Hopkins University School of Medicine is authorized by the Maryland State Board of Examiners of Psychologists as a provider of continuing education. The Johns Hopkins University School of Medicine maintains responsibility for this program. A certificate for 16.75 CEUs will be awarded upon completion of this activity.

The Maryland Board of Social Work Examiners certifies that this program meets the criteria for 16.75 credit hours of Category I or 1.65 CEUs of continuing education for social workers and associates licensed in Maryland. The Johns Hopkins University School of Medicine is an approved sponsor of the Maryland Board of Social Work Examiners for continuing education credits for licensed social workers in Maryland.

The Johns Hopkins University has approved this activity for 16.75 contact hours for non-physicians.

POLICY ON PRESENTER AND PROVIDER DISCLOSURE

It is the policy of the Johns Hopkins School of Medicine that the presenter and provider globally disclose conflicts of interest. The Johns Hopkins School of Medicine OCME has established policies that will identify and resolve conflicts of interest prior to this educational activity. Detailed disclosure will be made prior to presentation of the education.

REGISTRATION AND FEES

Monday, March 21, 2022
8:30 a.m. EST—Sign into Zoom

Register Online at:

[HopkinsCME.cloud-cme.com/aph.aspx?P=5&EID=34673](https://hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=34673)

Methods of Payment: We require full payment prior to the start of the activity.

Registration Fee \$325

You will receive a confirmation by e-mail. If you have not received it by **March 15, 2022**, call (410) 502-9636 to confirm that you are registered. A transcript of attendance will be available upon attestation of your credit hours and submission of the post activity online evaluation.

The Johns Hopkins University reserves the right to cancel or postpone any activity due to unforeseen circumstances. In this event, the University will refund the registration fee.

LATE FEE AND REFUND POLICY

A \$25 late fee applies to registrations received after 5:00 p.m. EST on **March 15, 2022**. A handling fee of \$25 will be deducted for cancellation. Refund requests must be received by fax or mail by **March 15, 2022**. No refunds will be made thereafter. Transfer of registration to another Johns Hopkins activity in lieu of cancellation is not possible.

SYLLABUS AND LOG IN INFORMATION

The syllabus and Zoom Webinar link will be accessible online and via your mobile device in the CloudCME App one week prior to the activity start date. To access, please visit our website.

CME Website: <https://hopkinscme.cloud-cme.com>
(Sign In, Click My CME tab, Click Syllabus)

INTERNET CME POLICY

The Office of Continuing Medical Education (OCME) at the Johns Hopkins School of Medicine is committed to protecting the privacy of its members and customers. Johns Hopkins School of Medicine OCME maintains its internet site as an information resource and service for physicians, other health professionals and the public. OCME at the Johns Hopkins School of Medicine will keep your personal and credit information confidential when you participate in a CME Internet based program. Your information will never be given to anyone outside of the Johns Hopkins School of Medicine CME program. CME collects only the information necessary to provide you with the services that you request.

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HARDWARE/SOFTWARE REQUIREMENTS

Internet connection.

HOW TO OBTAIN CREDIT

Post activity, an online evaluation will be available to attendees to evaluate the activity and individual presentations and to identify future educational needs. Upon completion of the evaluation, the learner must attest to the number of hours in attendance. Credits earned will be added to the learner's transcript and immediately available for print. **The last day to access the evaluation and attest to your credits is May 7, 2022.**

An outcome survey will be sent to all physician attendees within two months post activity to assist us in determining what impact this activity had on the learner's practice.

AMERICANS WITH DISABILITIES ACT

The Johns Hopkins School of Medicine fully complies with the legal requirements of the ADA and the rules and regulations thereof. *Please notify us if you have any special needs.*

TO REGISTER OR FOR FURTHER INFORMATION

Register Online
hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=34673
Register by Phone (410) 502-9636
Register by Fax (866) 510-7088
Confirmation/Certificates/Transcripts (410) 502-9636
General Information (410) 955-2959
E-mail the Office of CME cmenet@jhmi.edu

Follow us on Twitter: twitter.com/HopkinsCME
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Organization Code: HopkinsCME

For website and CloudCME mobile app technical difficulties, email: cmtechsupport@jhmi.edu

For general information and speaker disclosure statements, please visit the activity webpage at:
hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=34673

PROGRAM

MONDAY, MARCH 21, 2022

MORNING

- 8:30 EST Sign into Zoom Webinar
- 8:50 – 9:00 **Welcome with Conference Goals**
Bruce Shapiro, MD, Bradley Schlaggar, MD, PhD and Margaret Moon, MD, MPH

FOUNDATIONS

Moderator: Brian Rogers, MD

- 9:00 – 9:35 **Severe Neurological Impairment: The Limits of Functional Diagnoses**
Julie Hauer, MD
- 9:35 – 10:10 **Severe Neurologic Impairment: Defining the Burden of Care**
James Feinstein, MD, MPH, MSPH
- 10:10 – 10:20 Break
- 10:20 – 11:00 **Who is Responsible? Is There a System of Care?**
Renee Boss, MD
- 11:00 – 11:35 **What Should Be the Limits to Interventions? How to Decide?**
John Lantos, MD
- 11:35 – 12:10 **Question and Answer**
All Morning Faculty
- 12:10 – 12:45 Lunch Break

AFTERNOON

NEUROBIOLOGICAL UNDERPINNINGS

Moderator: Thomas Lock, MD

- 12:45 – 1:20 **Rare Diseases Causing NDD: Why Does Diagnosis Matter**
Mark Batshaw, MD
- 1:20 – 1:55 **Timing of Injury: Primary, Secondary, Tertiary and Beyond**
Frances Northington, MD
- 1:55 – 2:05 Break
- 2:05 – 2:40 **Disorders of Consciousness: Neurobehavioral Assessment and Outcomes**
Beth Slomine, PhD
- 2:40 – 3:15 **Developmental and Epileptic Encephalopathies: New Perspectives**
Carl Stafstrom, MD, PhD
- 3:15 – 4:00 **Question and Answer**
All Afternoon Faculty

TUESDAY, MARCH 22, 2022

MORNING

- 8:45 EST Sign into Zoom Webinar

CLINICAL CONSIDERATIONS

Moderator: Thomas Challman, MD

- 9:00 – 9:35 **Feeding, Swallowing and Dysphagia**
Maureen Lefton-Greif, MA, PhD, CCC-SLP, BCS-S
- 9:35 – 10:10 **Pneumonia Prevention Strategies**
Jody Lin, MD, MS
- 10:10 – 10:20 Break
- 10:20 – 10:55 **Positioning for Function**
Susan Schiaffino, MS, OT-R
- 10:55 – 11:30 **Interventions for Disordered Motor Development**
Jenny Wilson, MD, MS
- 11:30 – 12:10 **Question and Answer**
All Morning Faculty
- 12:10 – 12:40 Lunch Break

AFTERNOON

COGNITIVE AND COMMUNICATIVE DEVELOPMENT

Moderator: Sarah Risen, MD

- 12:40 – 1:20 **Cognitive and Communicative Assessment in Severe Motor Impairment**
Natasha Ludwig, PhD
- 1:20 – 2:00 **Educating Children with Severe/Profound Disability**
Fred Spooner, PhD
- 2:00 – 2:10 Break
- 2:10 – 2:50 **Pain Assessment and Management: Neurodevelopmental Considerations**
Eric Chin, MD
- 2:50 – 3:30 **Behavioral Disturbances in Children with Severe Neurological Impairments**
Lee Wachtel, MD
- 3:30 – 4:15 **Question and Answer**
All Afternoon Faculty

WEDNESDAY, MARCH 23, 2022

MORNING

- 8:15 EST Sign into Zoom Webinar

MANAGEMENT

Moderator: Paul Lipkin, MD

- 8:30 – 9:10 **Developing a Management Program**
Sherry Sellers Vinson, MD
- 9:10 – 9:50 **If Only He Would Sleep....**
Jennifer Accardo, MD, MSCE
- 9:50 – 10:30 **Stem Cell and Gene Therapy: Promise or Snake Oil?**
Thomas Challman, MD
- 10:30 – 10:40 Break
- 10:40 – 11:20 **A Poor Prognosis for the Term "Poor Prognosis"**
Jori Bogetz, MD
- 11:20 – 12:00 **Defining Success**
Bruce Shapiro, MD
- 12:00 – 12:40 **Question and Answer**
All Morning Faculty
- 12:40 – 1:00 **Closing Remarks**
Bruce Shapiro, MD
- 1:00 Adjourn

You will receive an email notification to complete the evaluation form and to attest to the number of hours in attendance.

The Johns Hopkins School of Medicine takes responsibility for the content, quality and scientific integrity of this CME activity.
This schedule is subject to change.

SPEAKERS

ACTIVITY DIRECTOR

Bruce Shapiro, MD

Arnold J. Capute MD, MPH Chair in Neurodevelopmental Disabilities
Professor of Pediatrics
Johns Hopkins School of Medicine
Vice President of Training
Kennedy Krieger Institute

JOHNS HOPKINS AND KENNEDY KRIEGER FACULTY

Renee Boss, MD

Rembrandt Foundation Professor of Palliative Care
Associate Professor of Pediatrics
Johns Hopkins School of Medicine

Eric Chin, MD

Assistant Professor of Neurology and Pediatrics
Johns Hopkins School of Medicine

Maureen Lefton-Greif, MA, PhD, CCC-SLP, BCS-S

Professor of Pediatrics, Otolaryngology Head and Neck Surgery and Physical Medicine and Rehabilitation
Johns Hopkins School of Medicine

Paul Lipkin, MD

Associate Professor of Pediatrics
Johns Hopkins School of Medicine

Natasha Ludwig, PhD

Instructor, Psychiatry and Behavioral Sciences
Johns Hopkins School of Medicine

Margaret R. Moon, MD, MPH

Director
Department of Pediatrics
Johns Hopkins School of Medicine
Pediatrician-in-Chief and Co-Director
Johns Hopkins Children's Center
Core Faculty
Johns Hopkins Berman Institute of Bioethics

Frances Northington, MD

Professor of Pediatrics and Neurology
Director of Neurosciences
Intensive Care Nursery Program
Medical Director, MRNTP
Johns Hopkins Hospital
Neonatal Research Laboratory
Johns Hopkins School of Medicine

Susan Schiaffino, MS, OT-R

Senior Occupational Therapist
Kennedy Krieger Institute

Bradley Schlaggar, MD, PhD

President and CEO
Kennedy Krieger Institute
Professor of Neurology and Pediatrics
Johns Hopkins School of Medicine

Beth Slomine, PhD

Professor of Psychiatry and Behavioral Sciences
Professor of Physical Medicine and Rehabilitation
Johns Hopkins School of Medicine
Co-Director, Center for Brain Injury Recovery
Kennedy Krieger Institute

Carl Stafstrom, MD, PhD

Lederer Endowed Chair of Pediatric Epilepsy
Director of Pediatric Neurology
Haller Professor of Neurologic Diseases
Johns Hopkins School of Medicine

Lee Wachtel, MD

Associate Professor of Psychiatry and Behavioral Sciences
Johns Hopkins School of Medicine

GUEST SPEAKERS

Jennifer Accardo, MD, MSCE

Associate Professor of Pediatrics and Neurology
Virginia Commonwealth University

Mark Batshaw, MD

Professor of Pediatrics
George Washington University School of Medicine

Jori Bogetz, MD

Assistant Professor of Pediatrics
University of Washington School of Medicine

Thomas Challman, MD

Medical Director
Geisinger Autism and Developmental Institute
Associate Professor of Pediatrics
Geisinger Commonwealth School of Medicine

James Feinstein, MD, MPH, MSPH

Associate Professor of Pediatrics
University of Colorado School of Medicine
Attending Physician
Children's Hospital Colorado
Special Care Clinic

Julie Hauer, MD

Assistant Professor of Pediatrics
Harvard Medical School

John Lantos, MD

Glasnapp Family Foundation Endowed Chair in Bioethics
Director, Children's Mercy Bioethics Center
Children's Mercy Kansas City
Professor of Pediatrics
UMKC School of Medicine

Jody Lin, MD, MS

Assistant Professor of Pediatrics
University of Utah School of Medicine

Thomas Lock, MD

Professor of Clinical Pediatrics
Director, Section of Developmental Pediatrics
Indiana University School of Medicine
Riley Hospital for Children

Sarah Risen, MD

Assistant Professor
Baylor College of Medicine
Texas Children's Hospital

Brian Rogers, MD

Professor Emeritus
Department of Pediatrics
Oregon Health & Science University

Fred Spooner, PhD

Professor of Special Education
University of North Carolina

Sherry Sellers Vinson, MD

Assistant Professor of Pediatrics
Baylor College of Medicine

Jenny Wilson, MD, MS

Associate Professor of Pediatric Neurology
Oregon Health & Sciences University

REGISTRATION

COURSE NUMBER 80056362 / 34673

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March 21-23, 2022

REGISTER ONLINE:

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Registration Fee.....\$325

The registration fee includes instructional materials. For registrations received after 5:00 p.m. EST on **March 15, 2022**, include a \$25 late fee.

