

# Understanding the Spectrum of Childhood Encephalitides, Including PANDAS & PANS

Live Virtual CE Conference via Zoom

**Tuesday, February 22, 2022**  
**8am - 3pm (EST)**



This activity was planned by and for the healthcare team, and learners will receive 6.5 Interprofessional Continuing Education (IPCE) Credits for learning and change.

**Course Director**  
**Souhel Najjar, MD**

Senior Vice President and Executive Director, Neurology Service Line  
Northwell Health  
Co-Director, Institute for Neurology and Neurosurgery  
Chair of Neurology  
North Shore University Hospital, Long Island Jewish Medical Center,  
Lenox Hill Hospital and Staten Island University Hospital  
Medical Director, Center for Executive and Global Health Services

in cooperation with:



## Program Agenda

- 7:45am** Late Registration – Virtual Exhibit Hall
- 8am** **Welcome Introduction**  
Souhel Najjar, MD, Northwell Health  
Diana Pohlman, Executive Director, PANDAS Network
- 8:10am** **Bringing Attention to Childhood Pediatric Autoimmune Encephalitis: The Challenges We Must Face in Neurology**  
Souhel Najjar, MD
- 8:50am** **2019 AAN Guidelines: Clinical Approaches to Autoimmune Encephalitis in the Pediatric Patient and Role of the Autoimmunity Found in the PANS Clinic**  
Eyal Muscal, MD, MS
- 9:20am** **PANS: Clinical Experience in IVIG Treatment in 55 Children and Findings of Oxidative Stress & Gut-Derived Lipopolysaccharides in Children with PANS**  
Albert Spalice, MD, PhD
- 9:50am** **Panel Roundtable – Q & A Session**  
Moderated by Asaff Harel, MD, MSc
- 10:20am** Break/Virtual Exhibit Hall
- 10:30am** **Antibodies from Children with PANDAS Bind Specifically to Striatal Cholinergic Interneurons and Alter Their Activity**  
Christopher Pittenger, MD, PhD
- 10:50am** **The Role of Adaptive Immunity and Genetic Risk Factors in Vascular and Neuronal Dysfunction in Post-Infectious Autoimmune Encephalitis**  
Dritan Agalliu, PhD
- 11:10am** **Metabolomic Characterization of Children with PANS**  
Antonella Gagliano, MD, PhD
- 11:30am** **Proinflammatory Dopamine-2 Receptor-Specific T cells in Pediatric Movement and Psychiatric Disorders**  
Fabienne Brilot, PhD
- 11:50am** Panel Roundtable / Q&A
- 12:20pm** Break/Virtual Exhibit Hall
- 12:30pm** **Patients Who Have Overcome Illness**  
Tracey Garrett – Young Child with PANDAS  
Christy Jagdfeld – Young Adult with PANDAS & Dysautonomia  
Diana Pohlman – Two Siblings 7 & 12 yrs PANDAS Onsets

(continued)

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### Program Agenda (continued)

**12:40pm Immune Mediated Pediatric Encephalitis - Need for Comprehensive Evaluation and Consensus Guidelines**

Julia Shekunov, MD

**1:10pm SARS-CoV-2 Related Pediatric Acute-Onset Neuropsychiatric Syndrome Case Study: 12-year-old Boy and Overlap with PANS Symptomatology**

Piero Pavone, MD, PhD

**1:40pm PANDAS, PANS and Autoimmune Psychiatric Disorders: Barriers to Care**

Yuval Shafir, MD

**2:10pm Final Roundtable – Q & A**

Moderated by Souhel Najjar, MD

**2:40pm Closing Remarks**

Souhel Najjar, MD

**3pm Conference Adjourns**

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**Statement of Need:** This conference will focus on the pathological mechanisms that can cause autoimmune encephalitis, a disease of the central nervous system, and the methods of diagnosis and treatment. The conference will focus on emerging basic science evidence and clinical treatment approaches for, PANDAS, PANS and seronegative encephalitis will be discussed together with best practices surrounding the complex diagnosis and treatment of these diseases.

Discussions will include a review of the troubling overlap of mental illness diagnostic challenges of PANS and other autoimmune encephalitides for all medical professionals, especially Neurologists and Psychiatrists, will be discussed and strategies for future directions in improved diagnostic methods will be considered. This activity brings together a multi-disciplinary approach to a new field of medicine and will consider best practices from various specialties.

**Program Objectives:** All Northwell Health CME activities are intended to improve patient care, safety, and outcomes. At the conclusion of this conference participants should be able to:

**Obtain** and discuss new knowledge to assist with the recognition and creating treatment plans for autoimmune encephalitis, including the recognition of the psychological manifestations of the disease.

**Review** and discuss various case examples to assist with a practical guide to the exams, diagnosis and treatment of autoimmune encephalitis patients.

**Utilize** case presentations, applying pedagogical principals, evidence-based literature citations, audience engagement and measured improvement in sequential experiences.

**Discuss** Various case examples to assist with a practical guide to the exams, diagnosis and treatment of autoimmune encephalitis patients.

**Target Audience:** MD/DOs, NPs, PAs, RNs, EMTs, Psychologists, Northwell Health Fellows, Residents, Students, Retirees and all members of the healthcare team interested in autoimmune encephalitis and its neurological effects.

**Joint Accreditation Statement:** In support of improving patient care, this activity has been planned and implemented by Northwell Health and the PANDAS Network. Northwell Health is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.



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INTERPROFESSIONAL CONTINUING EDUCATION

**Physicians:** Northwell Health designates this live for a maximum of 6.5 *AMA PRA Category 1 Credits™*. Physicians should claim only credit commensurate with the extent of their participation in the activity.

**Nurses:** Northwell Health designates this activity for 6.5 ANCC contact hours.

**Physician Assistants:** Northwell Health has been authorized by the American Academy of PAs (AAPA) to award AAPA Category 1 CME credit for activities planned in accordance with AAPA CME Criteria. This activity is designated for 6.5 AAPA Category 1 CME credits. PAs should only claim credit commensurate with the extent of their participation.

**Psychologists:** Northwell Health designates this activity for 6.5 APA CE credits for psychologists. APA Psychology credit is not accepted by the New York State Education Department as meeting their CME requirement.

**Social Workers:** Lenox Hill Hospital, Northwell Health is recognized by the New York State Education Department's (NYSED) State Board for Social Work as an approved provider for continuing education for Licensed Social Workers, #0406 6.0 CEU credits.

**Verification of Attendance:** Will be provided to all professionals.

**Location:** Live Virtual CE Conference via Zoom.

**Course Offering and Registration Fees:**

**No charge** Northwell employees and affiliates

**No charge** Northwell Health fellows, residents, students, and retirees

**\$75** Non-Northwell physicians

**\$25** Non-Northwell PAs, PTs, NPs, RNs, all others

\*Registration fee includes course materials, entry to virtual conference, and CME/Verification of Attendance Certificate.

**Cancellation Policy:** To receive a refund, all cancellations must be confirmed via email to Belinda Spatola-Pantina ([bspatola@northwell.edu](mailto:bspatola@northwell.edu)), Office of Continuing Medical Education by Monday February 14, 2022. An administrative fee of \$10 will be kept for all cancellations. No refunds will be made after this date or for "no-shows."

**Disclosure Policy:** Northwell Health adheres to the ACCME's Standards for Integrity and Independence in Accredited Continuing Education. Any individuals in a position to control the content of a CME-CE activity, including faculty, planners, reviewers or others are required to disclose all financial relationships with ineligible companies. All relevant financial relationships have been mitigated prior to the commencement of the activity.

**Americans with Disabilities Act:** This conference is in compliance with provisions of the Americans with Disabilities Act (ADA) and is accessible for individuals with special needs. If you would like to attend this conference and require any special needs or accommodations, please contact the Office of CME at (516) 266-2263.

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### Course Director

**Souhel Najjar, MD**  
Senior Vice President and Executive Director, Neurology Service Line  
Northwell Health  
Co-Director, Institute for Neurology and Neurosurgery  
Chair of Neurology  
North Shore University Hospital, Long Island Jewish Medical Center  
Lenox Hill Hospital and Staten Island University Hospital  
Medical Director, Center for Executive and Global Health Services

### Program Faculty

**Dritan Agalliu, PhD**  
Associate Professor  
Departments of Neurology, Pathology and Cell Biology  
Columbia University Irving Medical Center

**Ayman Alboudi, MD**  
MRCP (UK) Neurology  
New York, New York

**Fabienne Brilot, PhD**  
Child & Adolescent Health  
Brain & Mind Center  
The Children's Hospital at Westmead  
Associate Professor, Principal Research Fellow  
University of Sydney, Australia

**Antonella Gagliano, MD PhD**  
Child & Adolescent Neuropsychiatry Unit  
Department of Biomedical Science, University of Cagliari  
Associate Professor of Child Neuropsychiatry  
Antonio Cao Paediatric Hospital  
G. Brotzu Hospital Trust  
Italy

**Tracey Garrett**  
Guest Patient  
Massachusetts

**Asaff Harel, MD, MSc**  
Neurologist  
Northwell Health Physician Partners  
Director of the Multiple Sclerosis Center  
Lenox Hill Hospital  
Northwell Health

**Christy Jagdfeld, CPA\***  
PANDAS Network  
Guest Patient

**Paul J. Mattis, PhD\***  
Psychology  
Northwell Health  
Associate Professor  
Zucker School of Medicine

**Eyal Muscal, MD, MS**  
Pediatric Rheumatology  
Texas children's hospital  
Associate Professor of Pediatrics  
Baylor College of Medicine

**Lisa Nielsen-Karatz, LICSW**  
Clinical Social Worker  
Therapist  
Child Welfare Advocate  
Counseling Connection, LLC

**Piero Pavone, MD**  
Neuropsychiatry  
Department of Clinical and Experimental Medicine  
University of Catania, Italy

**Christopher Pittenger, MD, PhD**  
Assistant Director of Translational Research,  
Psychiatry and Neuroscience Research Training Program  
Connecticut Mental Health Center  
Mears & Jameson Professor of Psychiatry  
Professor in the Child Study Center  
Yale University

**Diana Pohlman**  
Executive Director  
PANDAS Network  
Guest Patient

**Yuval Shafir, MD**  
Child and Adolescent Neurology  
Epilepsy, Autism, Neuroimmune Disorders

**Julia Shekunov, MD**  
Child and Adolescent Psychiatry  
Mayo Clinic  
Rochester, Minnesota  
Assistant Professor, Psychiatry  
Mayo Clinic College of Medicine and Science

**Alberto Spalice, MD**  
Maternal Infant Department  
Dept. of Pediatrics and Neuropsychiatry  
Professor, Pediatrics  
La Sapienze University  
Rome, Italy

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**Conference Planning Committee**

Ayman Alboudi, MD, MRCP  
Paul J. Mattis, PhD  
Souhel Najjar, MD  
Lisa Nielsen-Karatz, LICSW

**Conference Coordinated By**

Christy Jagdfeld, CPA  
Treasurer, Board of Directors  
PANDAS Network

Diana Pohlman, Executive Director  
PANDAS Network

Kelly Wexlar, MBA, Program Director  
Neurology, Northwell Health

Northwell Health's  
Office of Continuing Medical Education  
Mary B. Strong, MA, Assistant Vice President  
Michelle Dula-Harris, MHA, Senior CME Program Administrator  
Belinda Spatola-Pantina, Project Manager

 [Register here](#)