Infectious, Paraneoplastic, and Autoimmune Encephalopathies: Advances in Clinical Diagnosis and Emerging Insights About Pathogenesis

Program Director  Michael R. Wilson, MD, San Francisco, CA

Program Description
This session will highlight the increasingly important and common clinical and scientific problem of diagnosis and treatment of neuroinflammatory syndromes—a topic of great interest to practicing neurologists and one of the most exciting and innovative areas of scientific discovery in neurology. The session will discuss the most helpful clinical features and phenotypes of CNS inflammatory syndromes for differential diagnosis, clinical interpretation of commercially available tests, the ongoing refinement of antibody and pathogen testing, and the development of new and exciting ways to detect pathogens using high-throughput approaches. The session will provide a summary for the clinical neurologist to approach diagnostic testing for infectious and inflammatory causes in these patients.

Learning Objectives
Upon completion, participants should be able to review the latest research on the optimal treatment and management of cryptococcal meningitis and cryptococcal meninitis immune reconstitution inflammatory syndrome; discuss the use of metagenomic deep sequencing technologies for identification of infectious causes of meningitis and encephalitis; explore the latest data on the differential diagnosis and management of autoimmune encephalopathies.

Recommended Audience
Trainee; General Neurologist; Specialist Neurologist; Advanced Practice Provider

Core Competencies
Medical Knowledge; Patient Care; Systems-based Practice

Schedule

1:15 p.m.–2:00 p.m.  Approach to Characterizing Neuroinflammatory Disorders in Children
Ariane Soldatos, MD, Bethesda, MD

2:00 p.m.–2:10 p.m.  Questions and Answers
Ariane Soldatos, MD, Bethesda, MD

2:10 p.m.–2:55 p.m.  Diagnosis, Management, and Neurocognitive Outcomes of Cryptococcal Meningitis
David R. Boulware, MD, MPH, Minneapolis, MN

2:55 p.m.–3:05 p.m.  Questions and Answers
David R. Boulware, MD, MPH, Minneapolis, MN

3:05 p.m.–3:20 p.m.  Break

3:20 p.m.–4:05 p.m.  Next-generation Diagnostics for Encephalitis
Joseph DeRisi, PhD, San Francisco, CA

4:05 p.m.–4:15 p.m.  Questions and Answers
Joseph DeRisi, PhD, San Francisco, CA