2nd Annual Cerebrospinal Fluid Disorders Symposium
Chiari and Cognition—Fiction or Reality?
Saturday, June 17, 2017
Warren Alpert Medical School | Providence, RI

Jointly Provided By
Warren Alpert Medical School, Brown University and Department of Neurosurgery at Rhode Island Hospital

In Collaboration With
Chiari & Syringomyelia Foundation
Program Description
In the traditional thinking, a disorder like Chiari affecting the cranio cervical junction & the cerebellum, has not been looked at as a disease potentially affecting higher cognitive function. The often reported “brain fog” has been largely attributed to chronic pain, depression & anxiety associated with the unknowns & physical challenges of this disorder.
Little knowledge & literature exists about the prevalence of cognitive symptoms in Chiari, mechanism of cognition & it’s clinical significance: Altered MRI diffusion tensor imaging (DTI) metrics in the genu of the corpus callosum, splenium, fornix correlated with cognitive neurocognitive function measured in Chiari. Also, the relevance of higher-level cognitive function in Chiari patients who underwent decompressive surgery has recently been addressed looking at episodic memory & executive function. One mechanism that might be relevant in Chiari is the cerebellar cognitive affective syndrome (CCAS), aka “Schmahmann’s syndrome”, that describes a constellation of non-motor cerebellar deficits.
The 2nd Annual CSF Disorders Symposium will further the study of cognitive impairment in Chiari diseases with consensus & evidentiary work as well as implementation of translational research & basic sciences that allow modelling cognition in Chiari disease to support the role of neurosurgery and excellence in neurosurgical techniques.

Target Audience
MD’s and DO’s, PA’s NP’s, residents, and fellows specializing in primary care, neurosurgery, neurology, orthopedic surgery, medicine, neuropsychology, geriatrics, & pediatrics.

Learning Objectives
At the conclusion of this activity, participants should be able to:
• Describe the cognitive symptoms of patients with Chiari disease and the neuropsychological findings and the impact on disability and health
• Report the cognitive impairment of patient’s diagnosed with Chiari malformation and the outcome with and without neurosurgical intervention
• Recognize the role of the cerebellum in higher cognitive function(s) in Chiari disease and other cerebellar disorders
• Describe the contribution of basic sciences to understand the relevance of cognition in Chiari disease and the functional associations
• Outline the diversity of surgical treatment of Chiari disorders and promote evidence-based strategies towards understanding of how surgical intervention alters cognitive function(s) in Chiari patients

Saturday, June 17, 2017
7:30–8:30 AM Registration, Breakfast, Visit Exhibitors
8:30–9:00 Welcome
Ziya L. Gokaslan, MD, FAANS, FACS and Dorothy Poppe
9:00–9:30 Introduction
Petra M. Klinge, MD, PhD
Jeremy D. Schmahmann, MD

Anatomical Evidence for the Contribution of the Cerebellum to Cognitive Function
Moderated by: Jeremy D. Schmahmann, MD
9:30–10:00 The Cerebellar Cognitive Affective Syndrome: Anatomy and Implications
Jeremy D. Schmahmann, MD
10:00–10:30 Meylin Imaging and Mapping and Its Implication for Cognition in Chiari Disease
Sean CL Deoni, PhD
10:30–11:00 Break, Art & Industry Exhibit, & Visit Exhibitors

Functional Evidence for the Contribution of the Cerebellum to Cognitive Function in Basic Sciences
Moderated by: Petra M. Klinge, MD, PhD
11:00–11:30 Cognitive and Motor Impairments in a Diseased Animal Model
Rebecca D. Burwell, PhD
11:30–12:00 PM Emotional Stress Leads to Long Lasting Changes in Neuronal Activity in the Mouse Cerebellum—Implications for Chiari Disease
Si-Qiong June Liu, PhD
12:00–12:30 Computational Background to the Contribution of the Cerebellum to Higher Cognitive Functions of the Cerebrum
Wael Asaad, MD, PhD

Nutrogenic and Neuropsychological Findings in Chiari and Cerebellar Disorders
Moderated by: Jeremy D. Schmahmann, MD
1:15–1:45 Introduction to the Cerebellar Cognitive Affective Syndrome / Schmahmann Scale, and the Cerebellar Neuropsychiatric Rating Scale (CNRS)
Jeremy D. Schmahmann, MD
1:45–2:15 Cognitive Testing With Pediatric Patients
Christine L. Trask, MD
2:15–2:45 Proposal of a “Cerebellar” Cognitive Test Battery—Adult Perspective
Philip A. Allen, PhD
2:45–3:00 Break, Art & Industry Exhibit, & Visit Exhibitors

Neurosurgical Implications
Moderated by: Petra M. Klinge, MD, PhD
3:00–3:30 The Pediatric Chiari Patient
William E. Butler, MD
3:30–4:00 The Adult Chiari Patient
Petra M. Klinge, MD, PhD
4:00–5:00 PM Round Table: Excellence in Neurosurgical Techniques in Chiari Disease
Moderated by: William E. Butler, MD
Ziya L. Gokaslan, MD, FAANS, FACS
Fraser C. Henderson Sr., MD
Mark Luciano, MD, PhD, FACS
Harold L. Rekate, MD
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Course Directors

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Registration Information
Register online at:
https://apps.biomed.brown.edu/cme_registration

Registration Fees:
Through May 31st
$75.00 Healthcare Professionals and Researchers
$50.00 Residents, Fellows, Students

After May 31st
$100.00 Healthcare Professionals and Researchers
$50.00 Residents, Fellows, Students

Conference registration fee includes: breakfast, breaks, lunch, access to an online syllabus, and on-site parking.

Cancellation Policy
Cancellations/substitutions must be made in writing to the Brown CME Office at least two weeks prior to the conference, no later than June 2, 2017. A $25.00 administrative fee will be charged for all refunds (no refunds for “no shows”). There will be no additional charge for substitutions. This conference is subject to change or cancellation.

Conference Location and Parking
Warren Alpert Medical School of Brown University
222 Richmond Street, Providence, RI 02912

Parking will be available in the parking garage adjacent to the Medical Building. Enter through the Eddy Street Entrance (333 Eddy Street on Google Maps) and take a ticket from the machine—please bring this ticket with you and see the registration desk. You may park on any level of the garage and can exit using either the Eddy Street or Elm Street exits.

Hotel Accommodations
The Providence Marriott
1 Orms Street, Providence, RI 02903
401-272-2400

To book hotel reservations with the current Brown University rate: http://www.campustravel.com/university/brown/

Accreditation
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 the Warren Alpert Medical School of Brown University and Department of Neurosurgery at Rhode Island Hospital. The Warren Alpert Medical School of Brown University is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation
Physicians: The Warren Alpert Medical School of Brown University designates this live activity for a maximum of 7.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Physician Assistants/Nurse Practitioners: Participants will receive a Certificate of Attendance stating this program is designated for 7.0 hours AMA PRA Category 1 Credits™. This credit is accepted by the AAPA and AANP.

For More Information
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Please notify the Brown CME Office in writing at least two weeks prior to the conference to request reasonable accommodations.

Register online at:
https://apps.biomed.brown.edu/cme_registration