



Children's National™

# Hospital Grand Rounds

Stay up-to-date, learn about new developments,  
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Children's National Auditorium, 2<sup>nd</sup> Floor Main

**Wednesday, December 14, 2016**

**8:00-9:00am**

38<sup>th</sup> Annual Gregory Mark Taubin Memorial Lecture

## Neuroimaging: Headache or Essential Tool in the Intensive Care Unit?

*Presented by*

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*Professor of Pediatrics and Neurology,  
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Children with congenital heart disease experience behavioral, emotional, cognitive and motor impairments with high frequency, suggesting widespread brain dysfunction. The etiology for this is unknown and multifactorial, involving deranged brain development and acquired brain injury.

Neuroimaging studies in the fetal and postnatal period can provide unique insights into the timing and nature of brain injury and disrupted brain development. However, these studies are expensive and difficult to obtain in critically ill newborns.

This presentation will review key discoveries made with this approach, allowing the audience to consider whether such insight is worth the cost and effort needed to perform such research studies.

### Learning Objectives:

*Attendees of this session will be able to:*

1. Describe timing and characteristics of brain injury in newborns with congenital heart disease.
2. Identify current knowledge regarding association of injuries with neurodevelopmental outcome.
3. Recognize some potential neurobiologic mechanisms of altered brain development in congenital heart disease.

**Accreditation Information:**

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint providership of INOVA and Children's National Medical Center. The INOVA Office of Continuing Medical Education is accredited by the MSV to provide continuing medical education for physicians.

The Inova Office of Continuing Medical Education designates this live activity for a maximum of 1 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity. Physicians may claim up to 1 credit in Type 1 CME on the Virginia Board of Medicine Continued Competency and Assessment Form required for renewal of an active medical license in Virginia.

