



Department of Internal Medicine Grand Rounds 2016 Paul B. Beeson Visiting Professorship

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“Hemolytic Anemia as a Mechanism for Vasculopathy and Pulmonary Hypertension in Sickle Cell Disease and Other Hemolytic Conditions”

Thursday, February 25, 2015 - 8:30am-Fitkin Amphitheatre

NEEDS ASSESSMENT:

Hemolytic anemia occurs in a variety of clinical entities including Sickle Cell Disease. Our understanding of the role of molecules released from red blood cells undergoing hemolysis has evolved significantly over the past decade. In order to optimally care for patients with hemolytic conditions, there is a need for physicians to understand the pathophysiologic process as a basis for complications associated with hemolytic states such as sickle cell disease, malaria, and other conditions.

LEARNING OBJECTIVES:

At the conclusion of this activity, participants will be able to:

*Explain how hemolytic anemia results in the release of erythrocyte Damage Associated Molecular Pattern molecules (eDAMPs) that cause vascular dysfunction and thereby is a mechanism for disease, including causing chronic vasculopathy in sickle cell disease and other hemolytic conditions.

*Demonstrate how patients with hemolytic anemia, such as sickle cell disease, can develop pulmonary hypertension.

*Review a pathological role for intravascular hemolysis and cell-free hemoglobin in transfusion medicine, surgery, malaria and other human diseases.

DESIGNATION STATEMENT:

The Yale School of Medicine designates this live activity for 1 AMA PRA Category 1 credit(s). Physicians should claim only credit commensurate with the extent of their participation in the activity.

FACULTY DISCLOSURES:

It is the policy of Yale School of Medicine, Continuing Medical Education, to ensure balance, independence, objectivity and scientific rigor in all its educational programs. All faculty participating as speakers in these programs are required to disclose any relevant financial relationship(s) they (or spouse or partner) have with a commercial interest that benefits the individual in any financial amount that has occurred within the past 12 months; and the opportunity to affect the content of CME about the products or services of the commercial interests. The Center for Continuing Medical Education will ensure that any conflicts of interest are resolved before the educational activity occurs.

ACCREDITATION:

The Yale School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.