



Epidemiology and Pathophysiology of Intracerebral Hemorrhage

Edward C. Jauch, MD, FACEP

Assistant Professor and Associate Director of Research
Department of Emergency Medicine
University of Cincinnati
Cincinnati, OH

Overview

In this lecture, Dr. Jauch will discuss many of the important issues related to the epidemiology, etiology, and pathophysiology of patients with intracerebral hemorrhage (ICH). He will also discuss the way in which ICH patients present, and how these presentations might vary based on the location, type, and severity of hemorrhage. Dr. Jauch will present an overview of how guidelines have been developed that direct the acute management of ICH patients. Lastly, Dr. Jauch will discuss what systems issues related to the treatment of ICH patients can be learned from the vast experience gained in the treatment of ischemic stroke patients.

Key Clinical Questions

What are the subtypes of stroke?

How is ICH classified?

How are the common types and locations of ICH?

What are the most common etiologies of ICH?

What are the demographics of patients who sustain an ICH?

How often do ischemic stroke sustain a hemorrhagic conversion?

What are the morbidity, mortality and societal costs of ICH?

How do ICH patients present acutely?

What is the natural history of ICH volume over time?

How can hemorrhage volume be calculated based on CT?

What is the pathophysiology of ICH?

What guidelines direct the acute management of ICH?

What key concepts direct the ED management of elevated BP and ICP?

What key concepts direct the need for surgical intervention for ICH patients?

What can be learned from the experience with ischemic stroke?

How do primary stroke centers fit into the management of ICH patients?

What can be learned from the “Time is Brain” concept?