

Example of An Answer to My Medical case Scenario

Medical Case Scenario

Please read carefully :

A 8 year- old boy presented to emergency room by hematemesis, hepatosplenomegaly, and known to have congenital hepatic fibrosis. You admit the child.

Your Medical Case Scenario Question

Do you recommend vasopressin?

My Model Answer:

Vasopressin Role in Acute Variceal Bleeding

Introduction: Acute haematemesis is a life threatening complication of portal hypertension. Approaches to stop active bleeding include pharmacologic agents and endoscopic ligation or sclerosing of bleeding varices. Vasopressin is a synthetic anti-diuretic hormone. Vasopressin is a potent splanchnic vasoconstrictor.

Aim of Work: To define effectiveness of vasopressin in acute variceal bleeding.

Methods: Meta-analysis, randomized controlled trials and case control studies were revised of vasopressin, somatostatin and their analogues, in patients with acute variceal bleeds based upon systematic searches of 4 electronic databases including Cochrane and Pubmed databases.

Results: Different meta-analysis studies described a maximum of 3011 citations. The use of vasoactive agents was reported to be associated with a significantly lower risk of 7-day mortality, a shorter hospital stay, less transfusion requirements, and

a significant improvement in haemostasis. Adverse events were reported to be significantly more frequent and severe with sclerotherapy than with vasoactive drugs. There is no evidence to support that endoscopic sclerotherapy or ligation is superior to vasopressin. Studies comparing different vasoactive medications failed to demonstrate a difference in efficacy.

Conclusion: Vasopressin is recommended in acute variceal bleeding. The use of vasoactive agents generally was associated with a significantly lower risk of acute all-cause mortality and transfusion requirements, and improved control of bleeding and shorter hospital stay. The use of vasopressin in variceal bleeding is evidence based. I will recommend the use of vasopressin in this child.

Key words: Vasopressin, acute variceal bleeding, endoscopic sclerotherapy, haematemesis. **References:**

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