Treatment of Bleeding Gastric Varices with Tissue Adhesive (Histoacryl) in Children

Hemorrhage from gastric varices poses a special challenge to the endoscopist, since conventional sclerotherapy has a high failure rate. It has been proposed that injection with cyanoacrylate may be the method of choice to eradicate gastric varices (1); however, to our knowledge, the use of this technique in children has not previously been reported.

Case 1. A nine-year-old boy was admitted to our unit due to his fourth episode of hematemesis caused by portal hypertension arising from a prehepatic portal vein obstruction. He had undergone eradication of esophageal varices, and had persistent large gastric varices with red spots that had bled twice during the previous 50 days, despite injection with 1% polidocanol. We decided to inject enbucrilate (Histoacryl) at the level of maximum protrusion of the varix (2). The patient has been free of bleeding for the last 43 months, and no varices were detected on follow-up endoscopies.

Case 2. A two-year-old boy was admitted to the intensive-care unit with hematemesis and hypovolemic shock requiring transfusion of 30 ml/kg body weight of whole blood. He had suffered from prehepatic portal vein obstruction, and developed large gastric varices that had bled twice during the previous six months, despite being treated with 1% polidocanol endoscopic injection each time. He was not receiving propanolol, in view of his prior history of asthma. During the endoscopy, large, nodular (pericardial) gastric varices with red spots and two small (grade I) esophageal varices were observed. After injection of cyanoacrylate into the gastric varices, the boy has been free of bleeding during the last 36 months, and no further gastric varices are present.

Pericardial gastric and esophageal varices may behave similarly, since the former are regarded as intragastic projections of the latter (3). However, in these patients we were not able to eradicate the gastric varices after many sessions of conventional
sclerotherapy. As described in previous reports (4, 5), cyanoacrylate adhesive (Histoacryl) was found to be a simple and effective method of treating bleeding gastric varices due to prehepatic portal vein destruction in the two children described, especially after the failure of other treatments.

S. Fuster, A. Costaguta, O. Tobacca
Gastroenterology Center,
Sanatorio de Niños, Rosario, Argentina

References

Corresponding Author
S. Fuster, M.D.
Centro de Gastroenterología
Tucumán 1813 (2000)
Rosario
Argentina
Fax: +54-41-262848