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DISTAL SPLENORENAL SHUNT SURGERY IN THE MANAGEMENT OF PORTAL VEIN THROMBOSIS (PVT) SECONDARY TO CAVERNOUS TRANSFORMATION OF PORTAL VEIN (CTPV) IN THE PEDIATRIC POPULATION: EXPERIENCES FROM VICENTE SOTTO MEMORIAL MEDICAL CENTER, CEBU CITY

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## Introduction

• In the pediatric population, the cavernous transformation of the portal vein (CTPV) is a sequela of extrahepatic portal vein thrombosis which is the most common cause of portal hypertension.



Four patients with upper gastrointestinal bleeding.

 CT Scan revealed a cavernous transformation of the portal vein particularly at the periportal region, with multiple reactive paraaortic, Inter-aortocaval & mesenteric lymphadenopathy and splenomegaly.



- One of these cases was managed with rubber band ligation (RBL), however, the patient was still symptomatic.
- Three of these cases were managed with distal splenorenal shunting using Warren's technique (Figure 2), and one with Meso-Rex shunting (Figure 1).



 Postoperatively (Table 1), these patient's symptoms and condition improved.

## Case Discussion

- Management includes endoscopic therapy with band ligation for temporary hemostasis in acute variceal bleeding, but it cannot reduce portal hypertension.
- Surgery is indicated in selected cases.
- Distal splenorenal shunt (DSRS) has been shown in most published series to have a therapeutic efficacy with a low incidence of 5-8% of recurrent variceal bleeding, acceptable risk of 5-15% of hepatic encephalopathy, and excellent long-term survival rates.









- Surgical diversion in these patients showed improvement in symptoms of portal hypertension.
- For institutions in low to low-middle-income countries that lack endoscopic procedures for pediatric patients, surgery should be the primary option in the management of portal hypertension secondary to extrahepatic portal vein thrombosis.