

**Controlled underdilation using novel Viatorr® controlled expansion
stents improves survival after transjugular intrahepatic
portosystemic shunt implantation**

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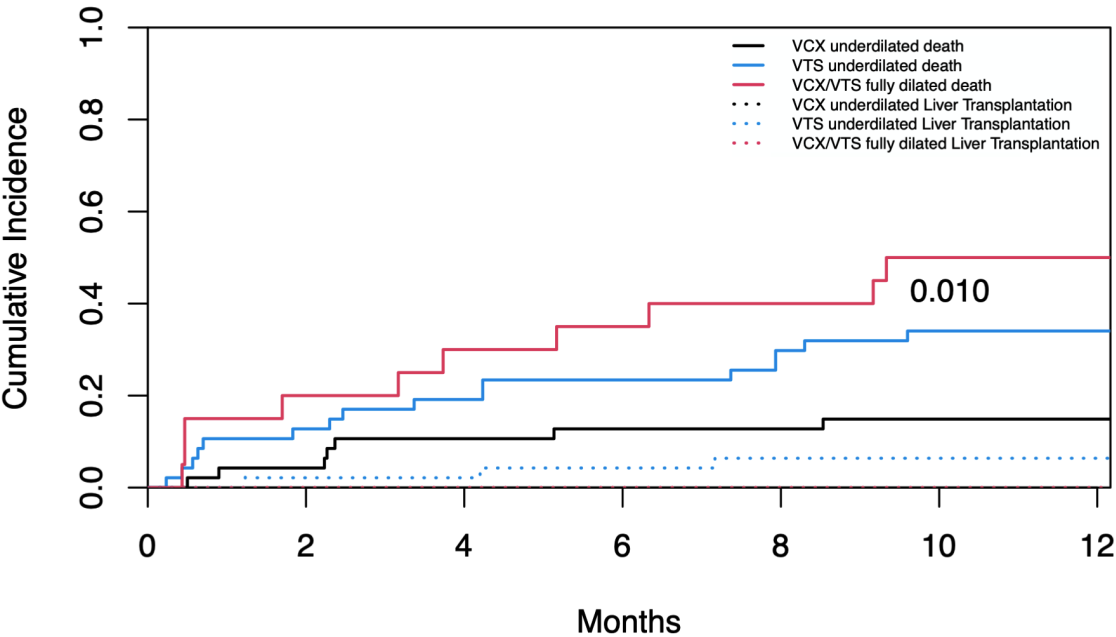
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Table S1. Causes of death in 1-year

	Parameter	all (n=114)	VCX underdilated (n=47)	VTS underdilated (n=47)	VCX and VTS fully dilated (n=20)
Causes of death	ACLF	16 (53%)	2 (29%)	9 (64%)	5 (56%)
	sepsis	13 (43%)	4 (57%)	5 (36%)	4 (44%)
	tumor	1 (4%)	1 (14%)	0	0

VCX – Viatorrr controlled expansion, VTS – first generation Viatorrr stent-graft, LT – liver transplantation, ACLF – acute-in-chronic liver failure

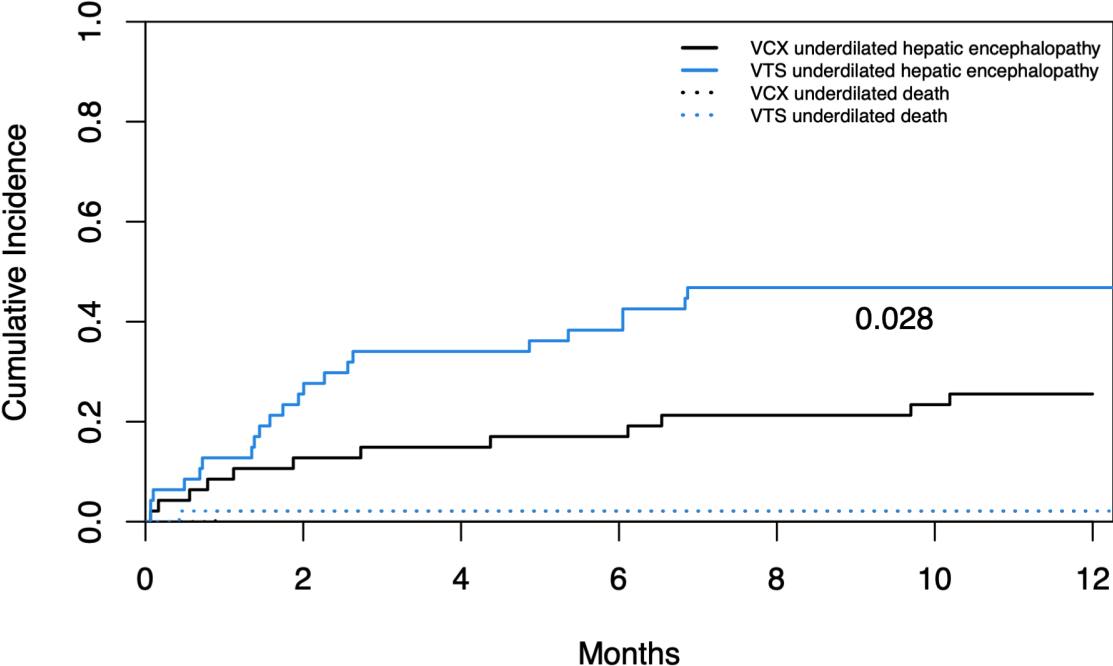
Fig. S1. Competing risk analysis for 1-year mortality.



Competing risk analysis for 1-year mortality with liver transplantation as competing event. X-axis shows time between TIPS and death in months. Y-axis shows cumulative incidence. Black: VCX underdilated to 8 mm. Blue: VTS underdilated to 8 mm. Red: VCX/VTS fully dilated to 10 mm. Dotted line: liver transplantation. VCX (Viatorr controlled expansion), VTS (first generation Viatorr stent-graft). P by Fine and Gray method.

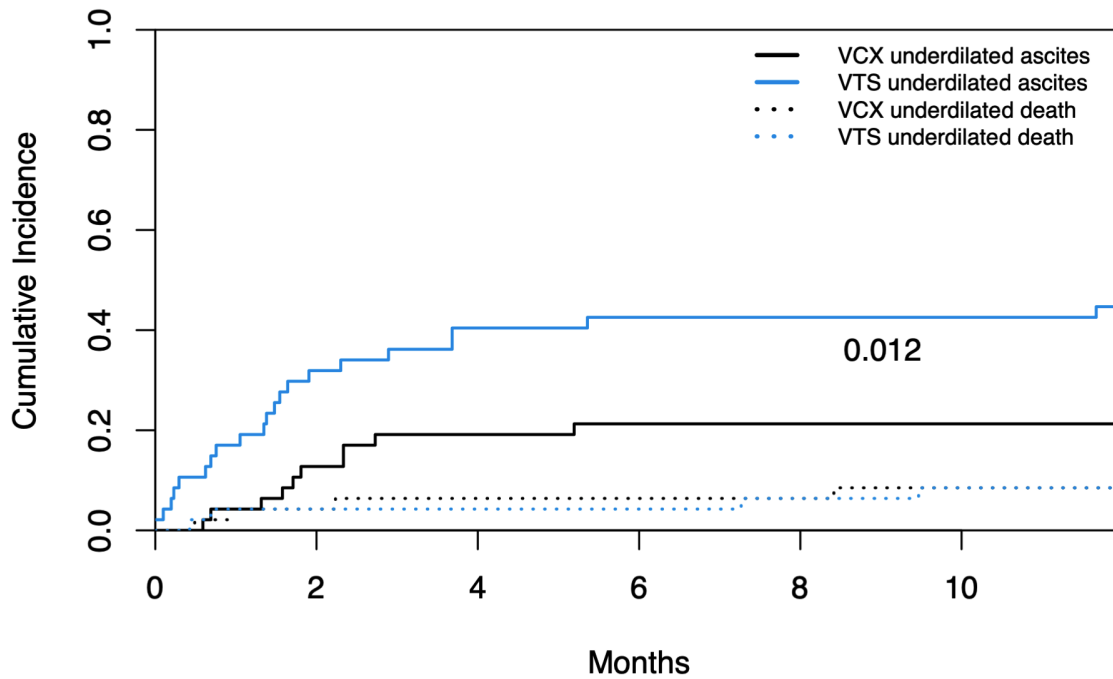
Fig. S2. Competing risk analyses for hospitalization.

A) Hepatic Encephalopathy



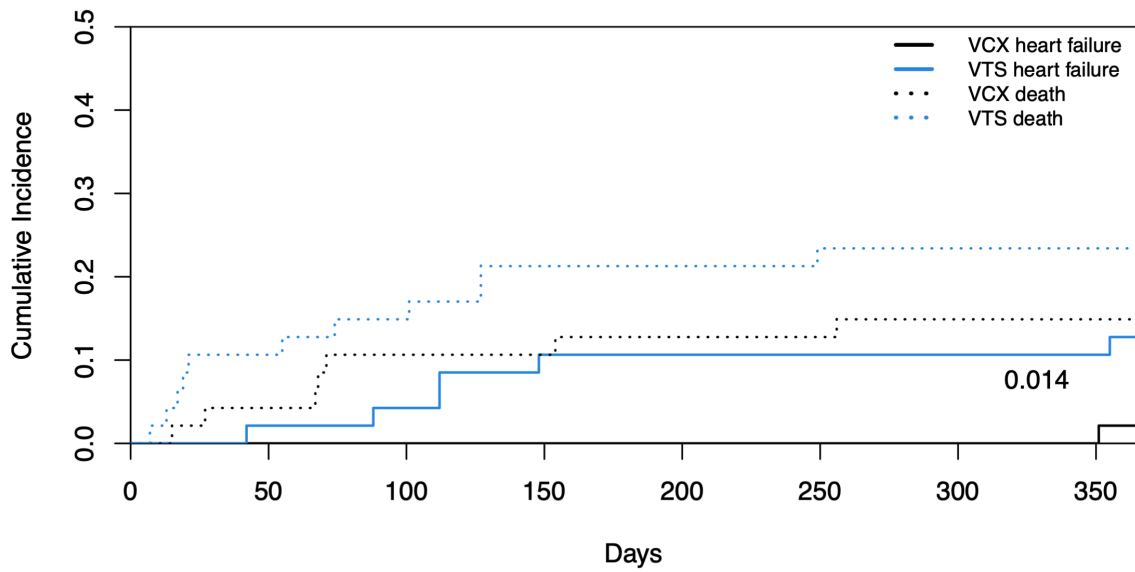
Competing risk analyses for hospitalization for hepatic encephalopathy with death and liver transplantation as competing event. X-axis shows time between TIPS and event in months. Y-axis shows cumulative incidence. Black: VCX underdiluted to 8 mm. Blue: VTS underdiluted to 8 mm. Dotted line: death and liver transplantation. P by Fine and Gray method.

B) Ascites



Competing risk analyses for hospitalization for large volume paracentesis with death and liver transplantation as competing event. X-axis shows time between TIPS and event in months. Y-axis shows cumulative incidence. Black: VCX underdilated to 8 mm. Blue: VTS underdilated to 8 mm. Dotted line: death and liver transplantation. P by Fine and Gray method.

C) Heart Failure



Competing risk analyses for hospitalization for heart failure with death and liver transplantation as competing event. X-axis shows time between TIPS and event in months. Y-axis shows cumulative incidence. Black: VCX underdilated to 8 mm. Blue: VTS underdilated to 8 mm. Dotted line: death and liver transplantation. P by Fine and Gray method.