

Supplementary material to Delahousse et al. “Comparative study of coagulation and thrombin generation in the portal and jugular plasma of patients with cirrhosis” (Thromb Haemost 2010; 104.4)

In order to confirm the influence of PC levels in the TM-resistance observed in our patients, we have performed TGA in jugular and portal samples of two patients scored child C as follows:

TGA were performed as described in the method section of the article, using final concentrations of 1 pM FT, 1µM PL without and with TM tested at 2 concentrations, 4 nM or 15 nM. Jugular and portal plasma of each patient was supplemented with purified protein C (Stago, France). Levels of protein C before and after supplementation were the following:

Anticoagulant Protein C activity		Jugular	Portal
Patient n°1	before	17 %	8 %
	after supplementation	94%	95%
Patient n°2	before	17%	<5%
	after supplementation	81%	88%

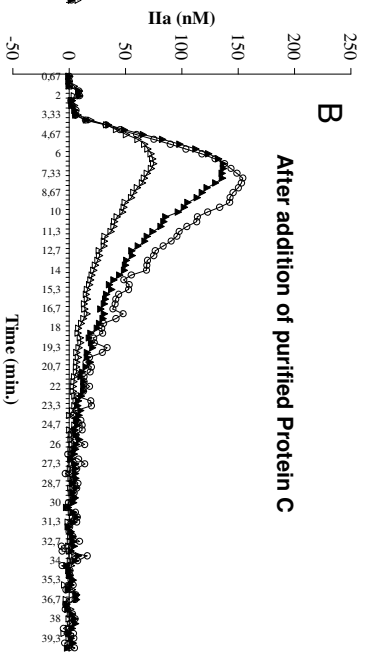
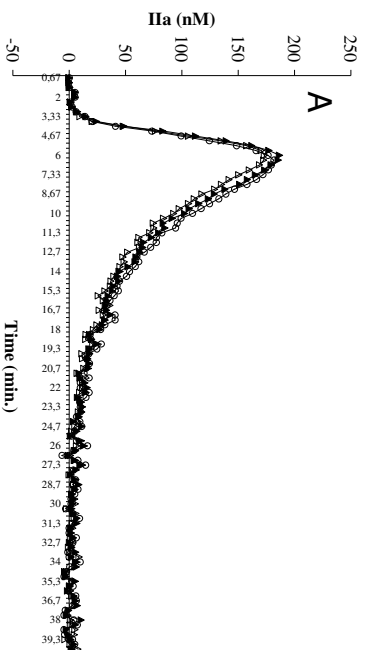
Results

As illustrated in figures S1-a (patient N°1) and S1-b (patient N°2), a TM resistance was observed in jugular and portal samples whatever the TM concentration used. This resistance was reversed when PC levels were corrected with an inhibition of the thrombin generation proportional to the TM concentration used.

These results confirm the contribution of the low PC levels in the TM resistance. However no difference in ETP values was found between jugular and portal samples after correction of PC deficiency and addition of TM.

Patient n° 1

Jugular plasma



Portal plasma

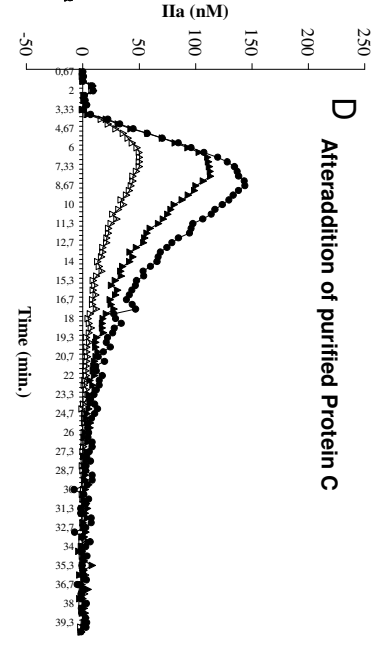
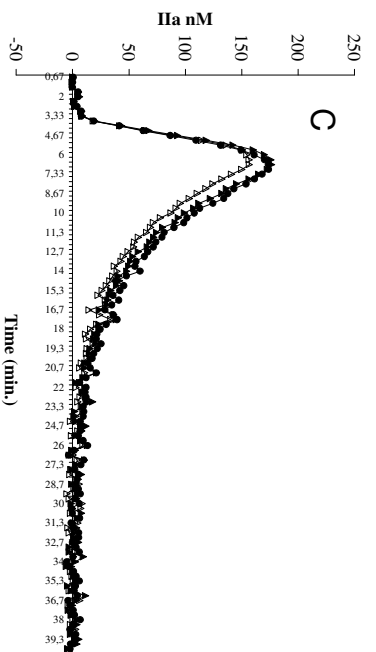
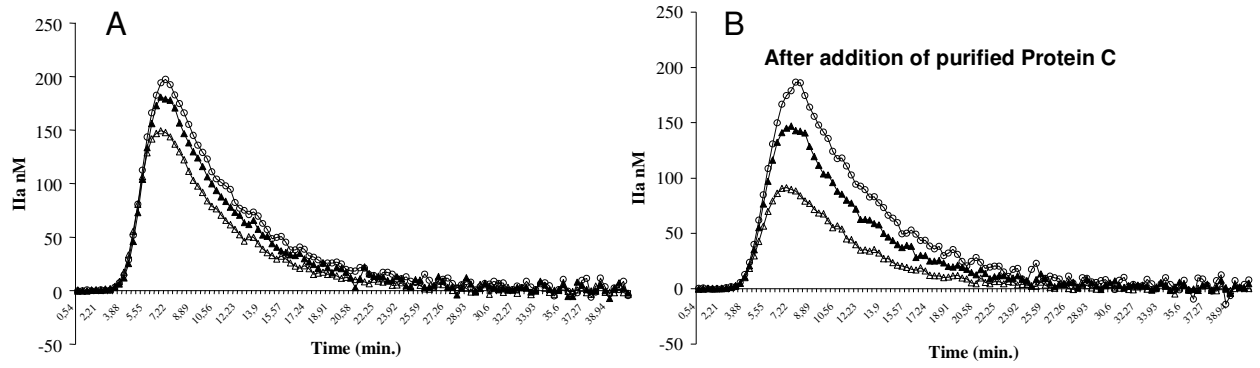


Figure S1-a

Patient n° 2

Jugular plasma



Portal plasma

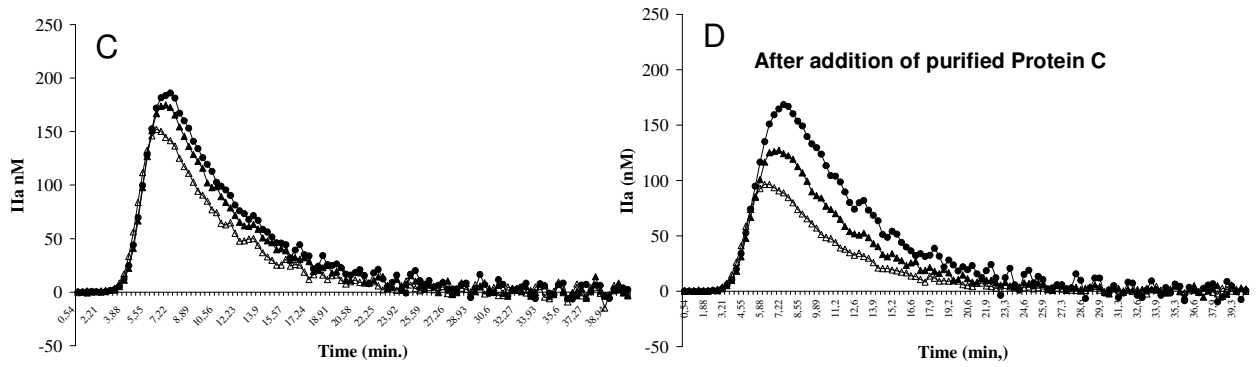


Figure S1-b

Legends to figures S1-a and S1-b

Thrombograms performed with 1 pM FT and 1 μ M PL without TM in jugular (open circles) and portal (plain circles) before (panels A and C) and after addition of purified Protein C (panels D and C). In each panel, thrombograms obtained after addition of TM are represented by plain triangles (4 nM) or open triangles (15 nM).