











THE FRITSMA FACTOR	Po	ost-post l	ssue: Pre	op Screen		
Your		Assay	Patient	RI		
Hemostasis		HGB	14.2 g/dL	13.5–15.6 g/dL		
Resource		PTT	59 s	25–35 s		
		PT	12.4 s	9.8–12.6 s		
		TT	18.2 s	<21 s		
		PLT count	310,000/µL	250-450,000/µL		
		Fibrinogen	270 mg/dL	150-400 mg/dL		
	No bleeding Hx, surgeon postpones procedure					
	Heparin present? Risk: bleeding? Thrombosis? Repeat PTT until negative? Consult with laboratory? Laboratory immediate reflex to					

THE FRITSMA FACTOR	Post-post Issue: How About This						
Your		Assay	Patient	RI			
Hemostasis		HGB	14.2 g/dL	13.5–15.6 g/dL			
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		PT	12.4 s	9.8–12.6 s			
		TT	18.2 s	<21 s			
		PLT count	310,000/µL	250-450,000/µL			
		Fibrinogen	270 mg/dL	150-400 mg/dL			
	No bleeding Hx, surgeon postpones procedure						
	"Isolated prolonged PTT may indicate coagulation factor deficiency, coagulation factor inhibitor, or lupus anticoagulant. Normal TT indicates no heparin present. Laboratory reflex to PTT mixing study, results follow."						
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THE FRITSMA FACTOR Your	Mixing Study: How About This?						
Interactive Hemostasis	Assay	Result RI		Comment			
Resource	PTT	57 s	25–35 s	Confirms previous PTT			
	PTT/control 1:1 immediate mix	38.5 s	Control value 27.5 s	Commercial platelet-free normal control plasma			
Interim report: "Patient plasma mixed 1:1 with norma plasma, PTT performed immediately after mix remain prolonged (uncorrected). Presumptive evidence of lu anticoagulant. LA profile follows."							
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THE FRITSMA FACTOR	LA Profile: How About This?					
Interactive Hemostasis	Assay	Result	RI	Comment		
Resource	PTT-LA	47.9 s	30–40 s	Confirms previous PTT		
	PTT-LA/control 1:1	38.5 s	Control value 34.5 s	Possible LA		
	Staclot LA kit	12 s correction	> 8s correction	Confirms LA		
	DRVVT	52.5 s	35–45 s	Possible LA		
	DRVVT Confirm	1.4 ratio	> 1.2 correction	Confirms LA		
	Or: "Patient plat and dilute Russ corrected by hig confirming LA. I if LA is chronic. persistence."	sma tested u ell viper veno gh phospholip No bleeding i Repeat after	sing LA-sensitive m reagent, both oid neutralization isk, may indicate 12 weeks to dete	PTT reagent prolonged, both reagent, thrombosis risk ermine		

THE FRITSMA FACTOR Your Interactive Hemostasis	Pre-op Coags Look the Same as Before "Will This Never End?"					
Resource		Assay	Result	RI		
		PT	14.2 s	12.6–14.6 s		
		PTT	42.5 s	25–35 s		
	TT 17.5 s < 21 s					
	PLT 245,000/µL 150–450,000/µL					
R		 Hepar Risk: I Repeation Consult Labora 	in present? bleeding? Thrombosis at PTT until negative? It with laboratory? atory reflex to	5?		
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THE FRITSMA FACTOR Your Interactive Hemostasis	Pre-op Coags Look the Same as Before How About This?					
Resource	Assay Result RI					
		PT	14.2 s	12.6–14.6 s		
	PTT 42.5 s 25–35 s					
		TT	17.5 s	< 21 s		
		PLT	245,000/µL	150–450,000/µL		
	Or: "Isolated prolonged PTT may indicate coagulation factor deficiency, coagulation factor inhibitor, or lupus anticoagulant. Normal TT indicates no heparin present. Laboratory reflex to PTT mixing study, results follow."					
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THE FRITSMA FACTOR Your	VWD Profile					
Interactive Hemostasis	Assay	Result	RI	Comment		
Resource	FVIII	40%	50-150%	Mildly decreased		
	VWF:Ag	37%	50-150%	VWD Type 1		
	VWF:RCo	45%	50-150%			
	VWF:Act	48%	50-150%			
	VWF:CBA	37%	50-150%			
	 Send this result to the surgeon w/o comment? Delay surgery? Consult with laboratory? 		Or: "Results indicate von Willebrand disease type 1, ris. of mucocutaneous bleeding may require pre-operative corrective therapy."			





