

**Fig S1:**

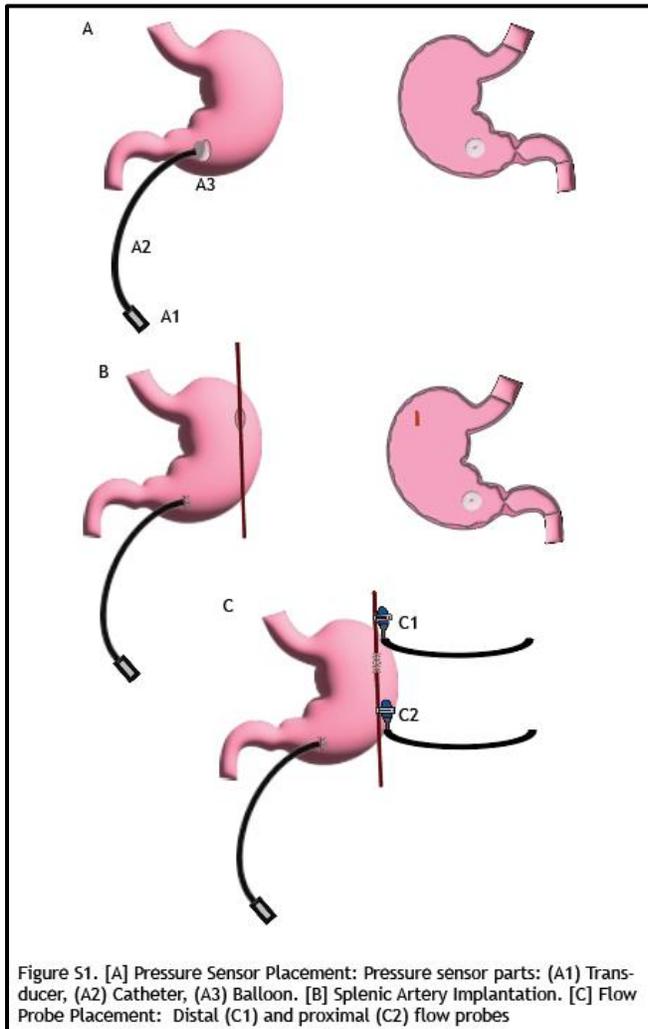


Fig S2:

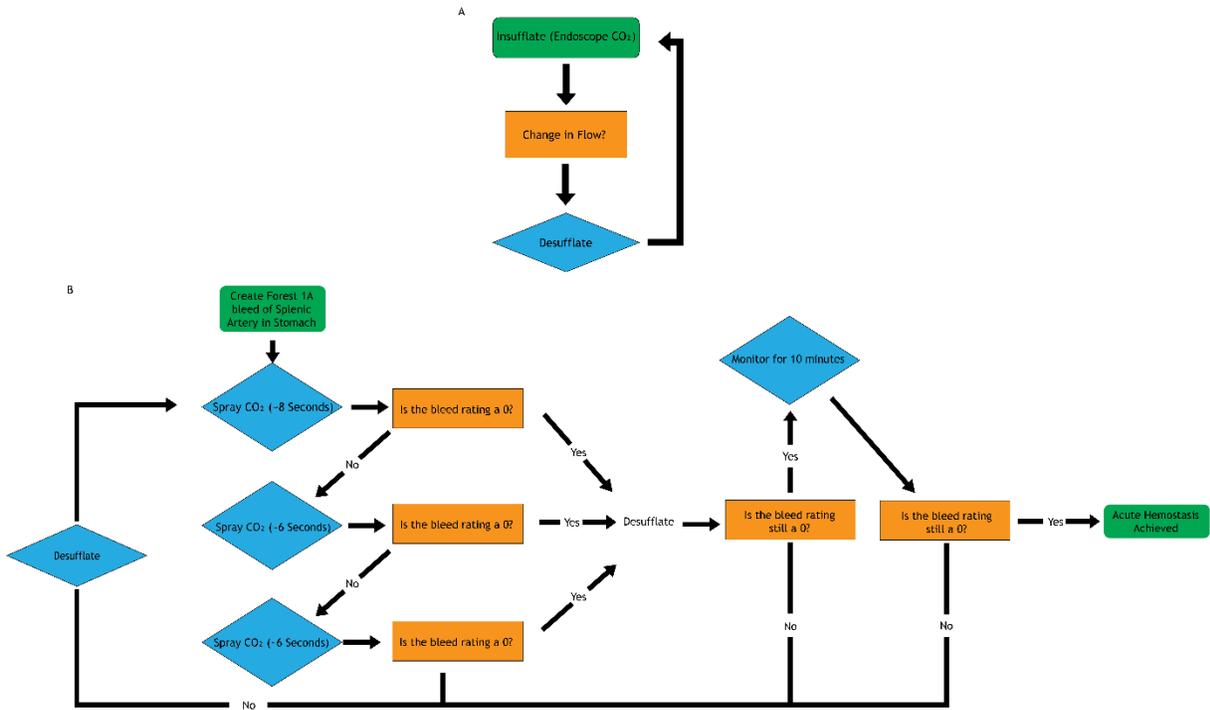


Figure S2: [A] Pre-puncture cycling to evaluate pressure impact on vessel. [B] Post-puncture pressure cycling to simulate hemostatic powder application without powder. This flow chart utilizes a spray cycle of 8-6-6 seconds.

Fig S3:

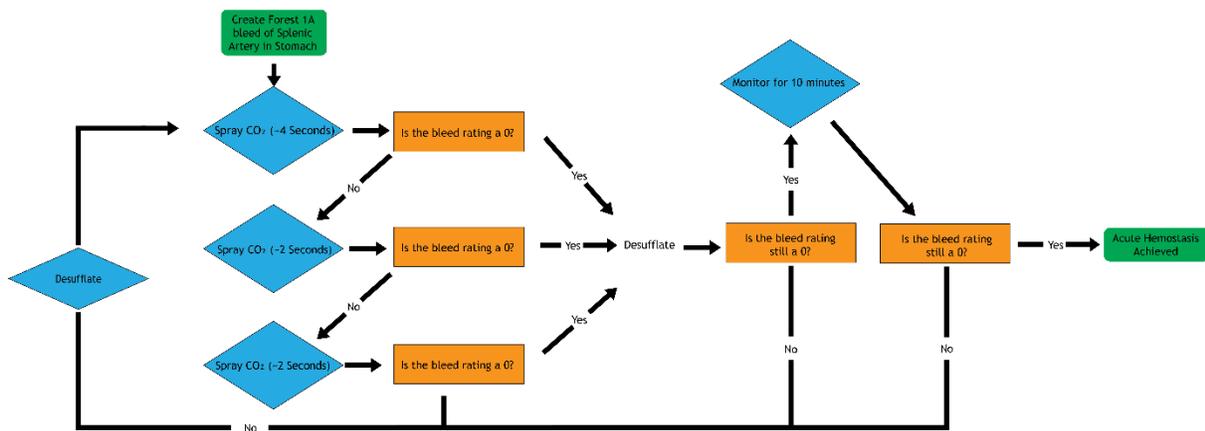


Figure S3: Post-puncture pressure cycling to simulate hemostatic powder application without powder application. This flow chart utilizes a spray cycle of 4-2-2 seconds.

**Fig S4:**

Forrest Scale	0	Forrest 1b	Forrest 1b	Forrest 1a	Forrest 1a
Experimental Scale	0	1	2	3	4
Bleed Description	No bleeding	Slow oozing leak- age	Moderate oozing	Spurting	Extreme Spurting

Figure S4: Forrest bleeding scale as it relates to the bleed scale called out during the experiment.