



The HERO-2 Trial

Hirulog Early Reperfusion Occlusion

***Reading of aPTT
Efficacy and Safety***

aPTT Results



	Bivalirudin		Heparin	
Actual value	<i>Median (LQ, UQ)</i>			
12-hour aPTT *	108	(83, 141)	77	(56, 118)
24-hour aPTT *	80	(64, 100)	57	(43, 74)
Ratio aPTT / mean control value				
At 12 hours *	3.2	(2.5, 4.1)	2.3	(1.7, 3.4)
At 24 hours *	2.4	(1.9, 3.0)	1.7	(1.3, 2.2)

* aPTT treatment comparisons all significant: $p < 0.001$

Relation of aPTT to Efficacy & Bleeding



- aPTTs significantly higher in the bivalirudin group.
- **No relationship with efficacy (reduction in reinfarction).**
- Positive relationship of aPTT to frequency of bleeding.
- **Adjustment for aPTT reduced moderate to severe bleeding 50 - 100%.**
- Difference in aPTT may account for part or all of the differences in bleeding.

Relation of 24-hr aPTT to Efficacy & Bleeding



	Odds Ratio	
	Adjusted for risk	Adjusted for risk & aPTT
ICH	1.38	0.74
Severe Bleeding	1.12	0.94
Moderate or severe bleeding	1.22	1.08
Reinfarction	0.74	0.77