

## Online Supplement

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**eTable1. Multivariable Analysis of the Association of IL-1ra and Thrombomodulin with Decline in Functional Outcome, Adjusting for PRISM III**

	Change in Pediatric Overall Performance Category		
	Odds Ratio	95% CI	p-value
<b>IL-1RA</b>			
Day 1			
IL-1ra	0.98	(0.66,1.45)	0.90
Age	1.05	(0.96,1.14)	0.27
PRISM	1.08	(1.01,1.16)	0.02
Day 2			
IL-1ra	1.29	(0.92,1.81)	0.15
Age	1.08	(1.01,1.15)	0.02
PRISM	1.08	(1.03,1.14)	<0.01
Day 3			
IL-1ra	1.30	(0.88,1.93)	0.19
Age	1.08	(1.01,1.16)	0.02
PRISM	1.08	(1.03,1.14)	<0.01
<b>Thrombomodulin</b>			
Day 1			
Thrombomodulin	1.23	(0.52,2.96)	0.64
Age	1.06	(0.97,1.16)	0.17
PRISM	1.09	(1.02,1.17)	0.01
Day 2			
Thrombomodulin	1.54	(0.78,3.02)	0.21
Age	1.08	(1.01,1.16)	0.02
PRISM	1.09	(1.03,1.15)	<0.01
Day 3			
Thrombomodulin	1.95	(0.95,4.01)	0.07
Age	1.09	(1.02,1.17)	0.01
PRISM	1.08	(1.03,1.14)	<0.01

**eTable 2. Multivariable Analysis of the Association of IL-1ra and Thrombomodulin with Decline in Functional Outcome, Adjusting for Sepsis Diagnosis**

	Change in Pediatric Overall Performance Category		
	Odds Ratio	95% CI	p-value
<b>IL-1RA</b>			
Day 1			
IL-1ra	0.97	(0.64,1.47)	0.89
Age	1.06	(0.97,1.15)	0.19
Sepsis	3.65	(1.19,11.16)	0.02
Day 2			
IL-1ra	1.44	(1.04,2.00)	0.03
Age	1.10	(1.03,1.17)	<0.01
Sepsis	1.87	(0.76,4.64)	0.17
Day 3			
IL-1ra	1.57	(1.07,2.28)	0.02
Age	1.10	(1.03,1.18)	<0.01
Sepsis	1.25	(0.44,3.60)	0.68
<b>Thrombomodulin</b>			
Day 1			
Thrombomodulin	1.28	(0.51,3.18)	0.60
Age	1.08	(0.99,1.17)	0.11
Sepsis	3.64	(1.15,11.52)	0.03
Day 2			
Thrombomodulin	1.99	(1.00,3.94)	0.049
Age	1.10	(1.03,1.18)	<0.01
Sepsis	2.00	(0.80,4.99)	0.14
Day 3			
Thrombomodulin	2.72	(1.31,5.63)	<0.01
Age	1.11	(1.03,1.18)	<0.01
Sepsis	1.16	(0.39,3.44)	0.79

**eTable 3. Multivariable Analysis of the Association of IL-1ra and Thrombomodulin with Decline in Functional Outcome, Adjusting for Cardiovascular and Respiratory Dysfunction**

	Change in Pediatric Overall Performance Category		
	Odds Ratio	95% CI	p-value
<b>IL-1RA</b>			
<b>Day 1</b>			
IL-1ra	0.91	(0.61,1.38)	0.67
Age	1.03	(0.94,1.12)	0.52
Highest OI	1.01	(0.98,1.05)	0.55
CV Failure	5.33	(1.08,26.25)	0.04
<b>Day 2</b>			
IL-1ra	1.28	(0.92, 1.80)	0.15
Age	1.07	(0.99,1.14)	0.06
Highest OI	1.01	(0.98,1.04)	0.51
CV Failure	5.86	(1.27,26.93)	0.02
<b>Day 3</b>			
IL-1ra	1.43	(0.96, 2.11)	0.078
Age	1.07	(0.99,1.14)	0.082
Highest OI	1.03	(0.99,1.06)	0.069
CV Failure	8.07	(1.01,64.37)	0.049
<b>Thrombomodulin</b>			
<b>Day 1</b>			
Thrombomodulin	1.49	(0.61,3.66)	0.39
Age	1.05	(0.96,1.15)	0.28
Highest OI	1.01	(0.97,1.05)	0.65
CV Failure	4.02	(0.82,19.79)	0.09
<b>Day 2</b>			
Thrombomodulin	2.03	(1.03,4.00)	0.04
Age	1.07	(0.99,1.14)	0.06
Highest OI	1.01	(0.99,1.04)	0.35
CV Failure	6.42	(1.43,28.80)	0.02
<b>Day 3</b>			
Thrombomodulin	2.96	(1.43,6.11)	<0.01
Age	1.06	(0.99,1.15)	0.09
Highest OI	1.04	(1.01,1.07)	0.02
CV Failure	8.83	(1.10,70.55)	0.04