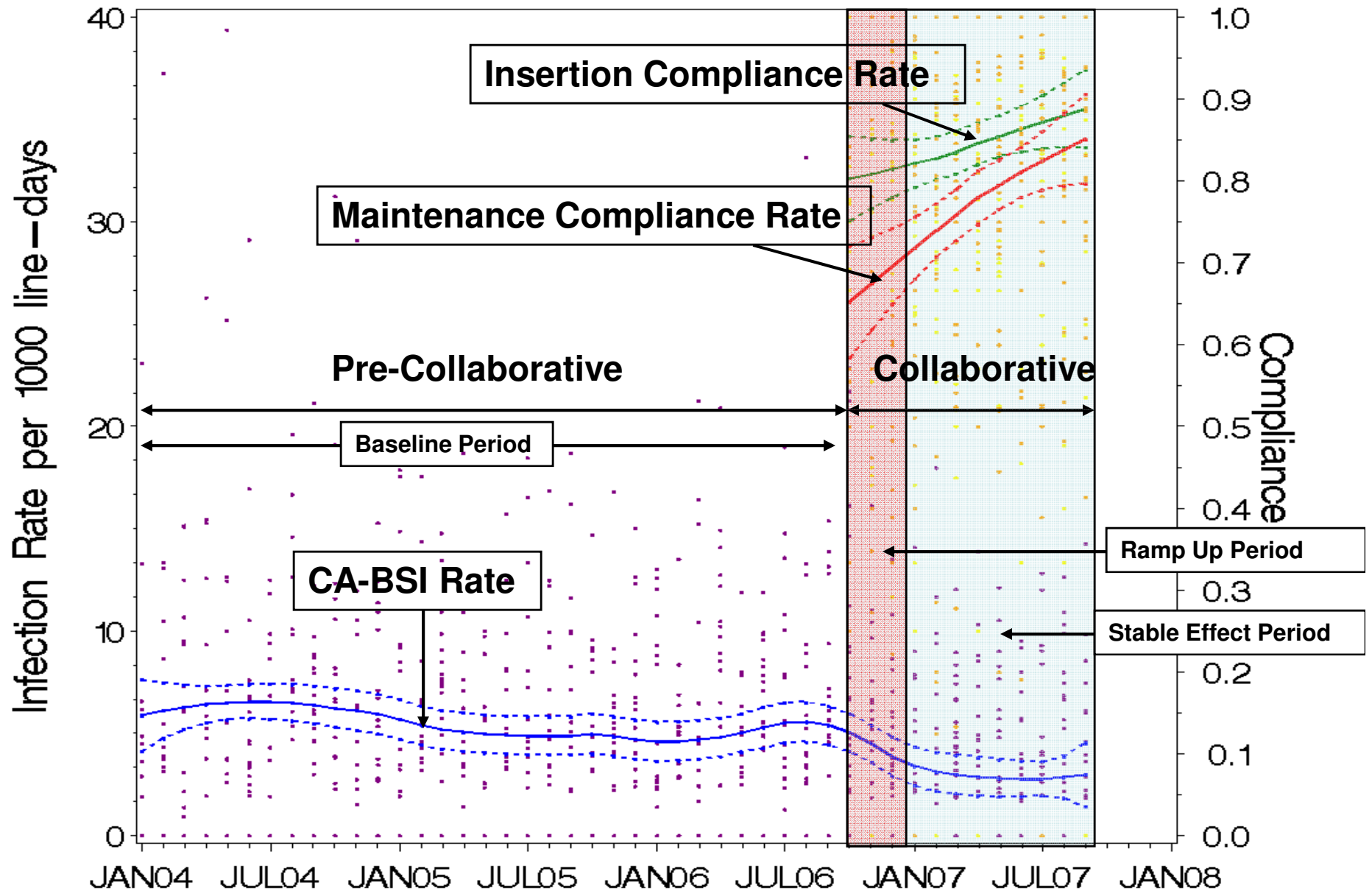


Smoother Plot of 29 PICUs CA-BSI Rates, Insertion and Maintenance Compliance in Pre-Collaborative and Collaborative Periods Through September 2007



Results of Hierarchical Cluster Model to Predict BSI Rate Decrease Through September 2007

CA-BSI Rate	Unadjusted					
	Estimated Rate	95% CI	p-value			
Baseline Rate (per 1000 line-days)	5.4	(4.5,6.4)				
Ramp Up Rate (per 1000 line-days)	4.3	(3.2, 5.9)	0.191			
Stable Effect Rate (per 1000 line days)	3.1	(2.4, 4.0)	<0.0001			

Predictor Variables	Unadjusted			Adjusted		
	Estimated Rel Rate	95% CI	p-value	Estimated Rel Rate	95% CI	p-value
Ramp-up Period (Q12 vs. baseline)	0.809	(0.588,1.112)	0.191	0.797	(0.572,1.109)	0.178
Stable Effect period (Q13-15 vs. baseline)	0.578	(0.452,0.741)	<0.0001	0.574	(0.445,0.741)	<0.0001
Northeast Region	0.979	(0.633,1.515)	0.924	0.996	(0.654,1.517)	0.985
Midwest Region	0.894	(0.596,1.340)	0.587	0.903	(0.610,1.336)	0.608
South Region	0.905	(0.584,1.403)	0.657	0.923	(0.595,1.434)	0.723
West Region	1.000	-	-	1.000	-	-
Average LOS (per day)	0.978	(0.878,1.091)	0.694	1.001	(0.882,1.135)	0.993
Bed capacity (per 100 beds)	2.603	(0.321,21.128)	0.371	2.832	(0.266,30.199)	0.389

Results of Hierarchical Cluster Model to Predict Effect of Insertion versus Maintenance Compliance on Change in CA-BSI Rate Through September 2007

Predictor	Unadjusted Relative Rate (RR)			Adjusted Relative Rate (RR)*		
	Estimated RR	95% CI	p-value	Estimated RR	95% CI	p-value
Stable Effect vs. Ramp Up	0.703	(0.541,0.913)	0.008	0.981	(0.73,1.319)	0.899
Northeast Region	0.880	(0.434,1.785)	0.723	0.746	(0.456,1.219)	0.241
Midwest Region	0.919	(0.458,1.844)	0.813	0.752	(0.508,1.114)	0.155
South Region	1.184	(0.575,2.438)	0.646	1.015	(0.629,1.638)	0.951
West Region	1.000	(1,1)	-	1.000	(1,1)	
Bed capacity (per 100 beds)	6.376	(0.209,194.98)	0.288	8.219	(0.274,246.56)	0.225
Average length of stay (per day)	1.009	(0.867,1.174)	0.908	1.008	(0.854,1.189)	0.929
Insertion Compliance	0.640	(0.208,1.971)	0.437	0.885	(0.221,3.547)	0.863
Maintenance Compliance	0.382	(0.188,0.774)	0.008	0.409	(0.197,0.851)	0.017

Phase I PICU CA-BSI Results as of August 2008 (n=29 PICUs)

Monthly Aggregate PICU CA-BSI Rate

