

Supplementary Table 6. Proportions with 95% confidence intervals of *F nucleatum* positive in *ERBB3* non-mutated and mutant groups marginalized over covariate distribution, and average treatment effect (ATE) (proportion difference) with 95% confidence interval between the two groups.

	Proportion of <i>F nucleatum</i> positive (95% CI)	<i>p</i> -value*
<i>ERBB3</i> non-mutation	0.082 (0.064-0.101)	
<i>ERBB3</i> mutation	0.270 (0.133-0.407)	
ATE	0.188 (0.051-0.326)	0.007

**p*-value was obtained for testing whether ATE is equal to zero based on 1000 bootstrapping samples.