

3. Results for the regression model predicting "Probability of Strata + Cancer" from "Probability of Strata + No Cancer" are presented in Figure 2.2.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.551 ^a	.303	.303	.1728443117

a. Predictors: (Constant), Center6, Probability_strata_no_cancer, Center2, Center1, Center5, Center3, Center4

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	3639.962	7	519.995	17405.587	.000 ^b
	Residual	8364.446	279980	.030		
	Total	12004.409	279987			

a. Dependent Variable: Probability_strata_cancer

b. Predictors: (Constant), Center6, Probability_strata_no_cancer, Center2, Center1, Center5, Center3, Center4

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.383	.001		295.628	.000
	Probability_strata_no_cancer	-.390	.001	-.551	-349.043	.000
	Center1	.000	.001	.001	.347	.729
	Center2	.002	.001	.003	1.330	.183
	Center3	-.001	.001	-.001	-.697	.486
	Center4	.000	.001	.001	.306	.759
	Center5	.000	.001	.000	.191	.849
	Center6	.001	.001	.001	.423	.672

a. Dependent Variable: Probability_strata_cancer

Figure 2.2

4. The intercepts from the multiple regression model predicting "Probability of Strata + Cancer" from "Probability of Strata + No Cancer" are presented in Figure 2.3.

Medical_Center	Intercept	Distance	Satisfaction
Center1	0.598	50	79
Center2	0.600	80	82
Center3	0.597	70	80
Center4	0.598	70	79
Center5	0.598	80	79
Center6	0.599	70	83
Center7	0.598	80	81

Figure 2.3

5. Regression results predicting *Intercept* from *Distance* and *Satisfaction* are presented in Figure 2.4.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.667 ^a	.445	.168	.00087

a. Predictors: (Constant), Satisfaction, Distance

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.000	2	.000	1.606	.308 ^b
	Residual	.000	4	.000		
	Total	.000	6			

a. Dependent Variable: Intercept

b. Predictors: (Constant), Satisfaction, Distance

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.567	.018		31.458	.000
	Distance	5.263E-6	.000	.059	.149	.889
	Satisfaction	.000	.000	.645	1.626	.179

a. Dependent Variable: Intercept

Figure 2.4

The multiple regression results predicting center *Intercept* (ratio of "Probability of Strata + Cancer" to "Probability of Strata + No Cancer") from *Distance* and *Satisfaction* suggest that the *Intercept* is not significantly affected by either Distance, $p = .889$ or Satisfaction, $p = .179$. The multiple regression model as a whole was insignificant, $p = .308$. These results are very similar to those obtained in part 3 of Question 1.