The LOGISTIC Procedure

Model Information	
Data Set	WORK.TEST_WDBC_SUB
Response Variable	diagnosis
Number of Response Levels	2
Model	binary logit
Optimization Technique	Fisher's scoring

Number of Observations Read	114
Number of Observations Used	114

Response Profile		
Ordered Value	**diagnosis**	**Total Frequency**
1	0	73
2	1	41

Probability modeled is diagnosis='0'.

Model Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics		
Criterion	**Intercept Only**	**Intercept and Covariates**
AIC	150.933	44.952
SC	153.669	75.050
-2 Log L	148.933	22.952

Testing Global Null Hypothesis: BETA=0			
Test	**Chi-Square**	**DF**	**Pr > ChiSq**
Likelihood Ratio	125.9814	10	<.0001
Score	78.7172	10	<.0001
Wald	11.0480	10	0.3538

The LOGISTIC Procedure

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	50.8396	57.7760	0.7743	0.3789
radius	1	0.2108	11.9792	0.0003	0.9860
texture	1	-0.3941	0.2356	2.7985	0.0944
perimeter	1	-0.0614	1.8538	0.0011	0.9736
area	1	-0.0273	0.0554	0.2421	0.6227
smoothness	1	-242.2	158.4	2.3372	0.1263
compactness	1	55.9072	92.5365	0.3650	0.5457
concavity	1	-41.3220	30.0178	1.8950	0.1686
concave_points	1	0.2899	87.7838	0.0000	0.9974
symmetry	1	2.7255	48.3885	0.0032	0.9551
fractal_dimension	1	-32.6442	342.1	0.0091	0.9240

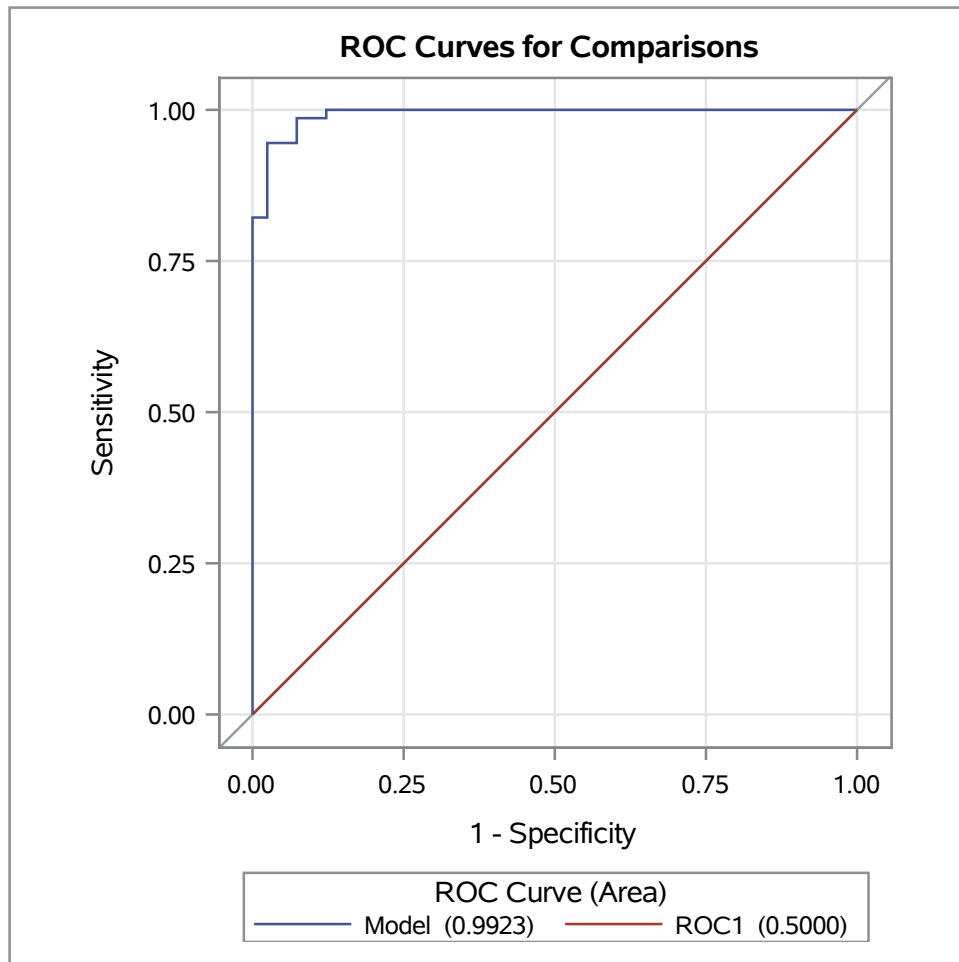| Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
radius	1.235	<0.001	>999.999
texture	0.674	0.425	1.070
perimeter	0.940	0.025	35.589
area	0.973	0.873	1.085
smoothness	<0.001	<0.001	>999.999
compactness	>999.999	<0.001	>999.999
concavity	<0.001	<0.001	>999.999
concave_points	1.336	<0.001	>999.999
symmetry	15.265	<0.001	>999.999
fractal_dimension	<0.001	<0.001	>999.999

The LOGISTIC Procedure

ROC Curve for Model
Area Under the Curve = 0.9923
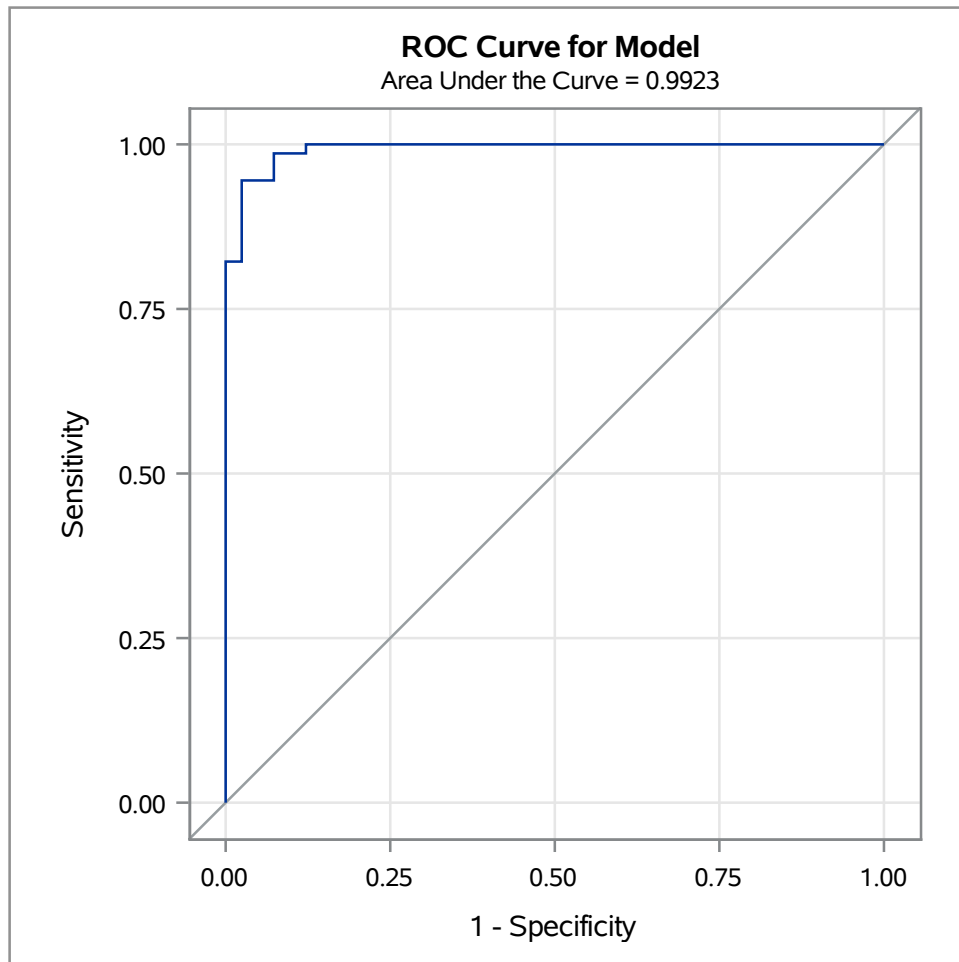
ROC Model: ROC1

Model Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

-2 Log L	=	148.933

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	0.5769	0.1952	8.7374	0.0031

The LOGISTIC Procedure

ROC Model: ROC1

ROC Curve for ROC1
Area Under the Curve = 0.5000

The LOGISTIC Procedure

ROC Curves for Comparisons

ROC Curve (Area)
— Model (0.9923)   — ROC1 (0.5000)
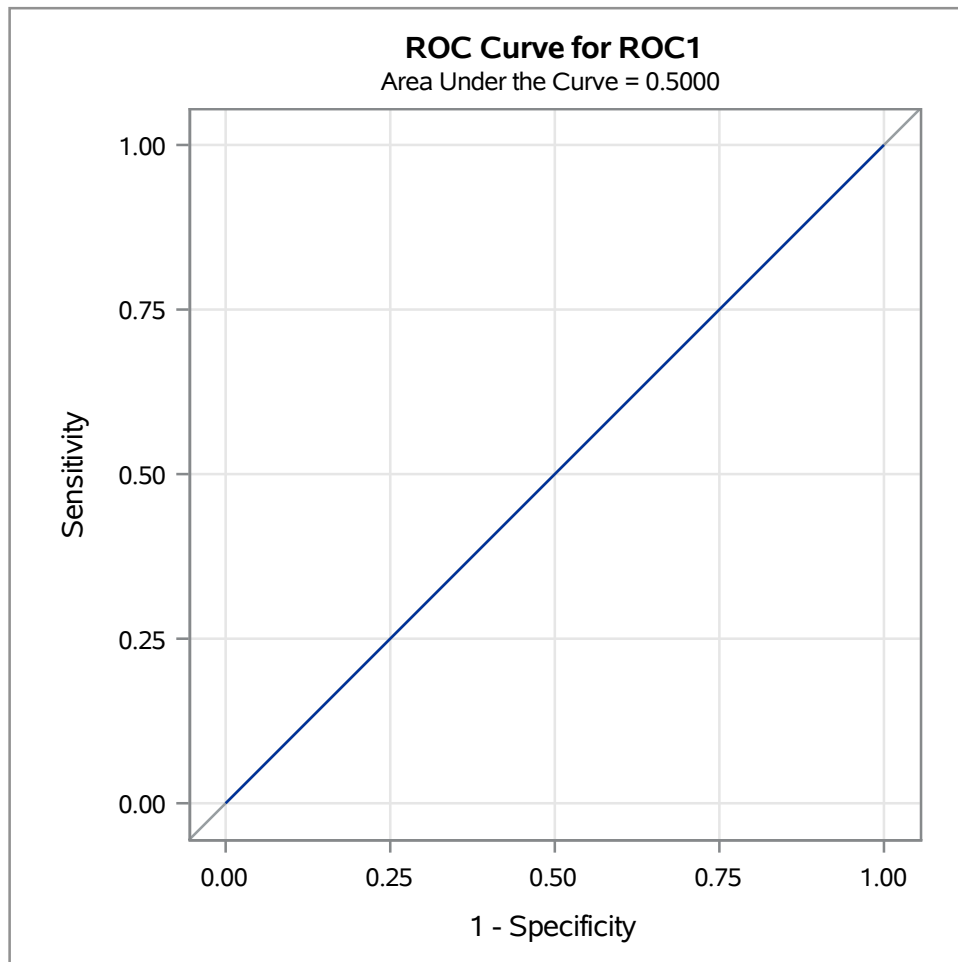
ROC Model	Area	Standard Error	95% Wald Confidence Limits		Somers' D	Gamma	Tau-a
			ROC Association Statistics				
			Mann-Whitney				
Model	0.9923	0.00528	0.9820	1.0000	0.9846	0.9846	0.4575
ROC1	0.5000	0	0.5000	0.5000	0	.	0

Area under the Curve
0.9923