

Nominal Logistic Fit for Clean/Transfused

Effect Summary

Source	Logworth	PValue
Erythrocytes-Hb (g L ⁻¹)	3.010	0.00098
Reticulocytes/Erythrocytes (%)	1.128	0.07448
Erythrocytes-MCV (fL)	0.177	0.66461

Converged in Gradient, 4 Iterations

Whole Model Test

Model	-LogLikelihood	DF	ChiSquare	Prob>ChiSq
Difference	9.22393	3	18.44787	0.0004*
Full	116.35642			
Reduced	125.58036			

RSquare (U)	0.0735
AICc	240.931
BIC	253.659
Observations (or Sum Wgts)	188

Fit Details

Measure	Training	Validation	Definition
Entropy RSquare	0.0735	0.3413	1-Loglike(model)/Loglike(0)
Generalized RSquare	0.1268	0.4903	$(1-L(0)/L(model))^{(2/n)/(1-L(0)^{(2/n)})}$
Mean -Log p	0.6189	0.4216	$\sum -\log(p_{ij})/n$
RASE	0.4666	0.3580	$\sqrt{\sum (y_{ij}-p_{ij})^2/n}$
Mean Abs Dev	0.4333	0.3223	$\sum y_{ij}-p_{ij} /n$
Misclassification Rate	0.3989	0.1385	$\sum (p_{ij} \neq pMax)/n$
N	188	65	n

Lack Of Fit

Source	DF	-LogLikelihood	ChiSquare
Lack Of Fit	176	112.19754	224.3951
Saturated	179	4.15888	Prob>ChiSq
Fitted	3	116.35642	0.0080*

Parameter Estimates

Term	Estimate	Std Error	ChiSquare	Prob>ChiSq
Intercept	-14.105374	5.0930481	7.67	0.0056*
Erythrocytes-Hb (g L ⁻¹)	0.07556381	0.0229179	10.87	0.0010*
Reticulocytes/Erythrocytes (%)	0.09725436	0.0545259	3.18	0.0745
Erythrocytes-MCV (fL)	0.06419005	0.148056	0.19	0.6646

For log odds of Transfused/Clean

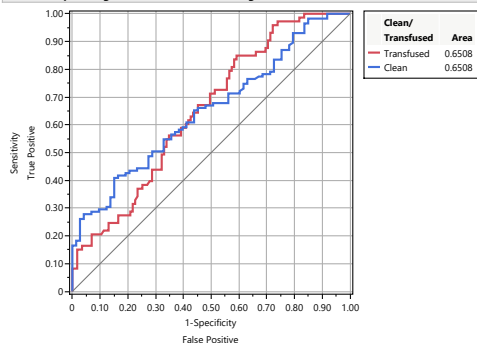
Covariance of Estimates

Cov	Intercept	Erythrocytes-Hb (g L ⁻¹)	Reticulocytes/Erythrocytes (%)	Erythrocytes-MCV (fL)
Intercept	25.939	-0.061	-0.029	-0.579
Erythrocytes-Hb (g L ⁻¹)	-0.061	0.0005	-0.000	-0.000
Reticulocytes/Erythrocytes (%)	-0.029	-0.000	0.0030	-0.000
Erythrocytes-MCV (fL)	-0.579	-0.000	-0.000	0.0219

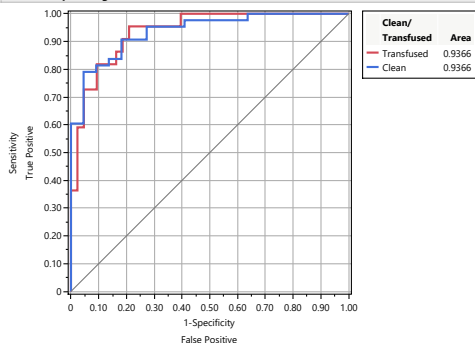
Effect Wald Tests

Source	Nparm	DF	ChiSquare	Prob>ChiSq
Erythrocytes-Hb (g L ⁻¹)	1	1	10.8712532	0.0010*
Reticulocytes/Erythrocytes (%)	1	1	3.18135292	0.0745
Erythrocytes-MCV (fL)	1	1	0.18796786	0.6646

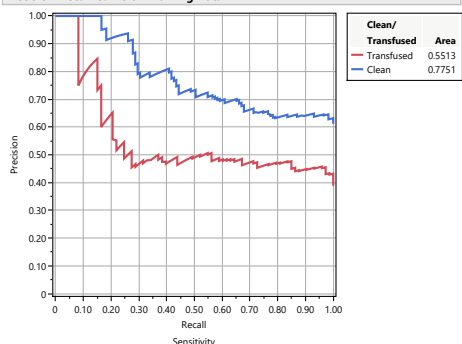
Receiver Operating Characteristic on Training Data



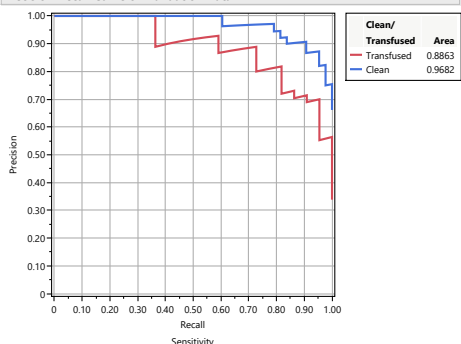
Receiver Operating Characteristic on Validation Data



Precision-Recall Curve on Training Data



Precision-Recall Curve on Validation Data



Decision Thresholds

Training



