```
* Curve Estimation.
TSET NEWVAR=NONE.
CURVEFIT
  /VARIABLES=PaO2 WITH Sat
  /CONSTANT
  /MODEL=LINEAR LOGARITHMIC INVERSE QUADRATIC CUBIC COMPOUND POWER S GROWTH EXPONENTIAL L
GSTIC
  /PRINT ANOVA
  /PLOT FIT.
```

Curve Fit

```
[DataSet0] C:\_project\ECMO\trunk\app\doc\ECMOjo Component Docs\CubeEquation-Sat-PaO2.SAV
.sav
```

Warnings

The independent variable (Sat) contains values of zero. The Inverse and S models cannot be calculated.
The independent variable (Sat) contains non-positive values. The minimum value is .000. The Logarithmic and Power models cannot be calculated.
The dependent variable (PaO2) contains non-positive values. The minimum value is .000. Log transform cannot be applied. The Compound, Power, S, Growth, Exponential, and Logistic models cannot be calculated for this variable.

Model Description

Model Name		MOD_3
Dependent Variable	1	PaO2
Equation	1	Linear
	2	Logarithmic
	3	Inverse
	4	Quadratic
	5	Cubic
	6	Compound [a]
	7	Power [a]
	8	S [a]
	9	Growth [a]
	10	Exponential [a]
	11	Logistic [a]
Independent Variable		Sat
Constant		Included

a. The model requires all non-missing values to be positive.

Model Description

Variable Whose Values Label Observations in Plots	Unspecified
Tolerance for Entering Terms in Equations	1.0E-4

a. The model requires all non-missing values to be positive.

Case Processing Summary

	N
Total Cases	40
Excluded Cases [a]	14
Forecasted Cases	0
Newly Created Cases	0

a. Cases with a missing value in any variable are excluded from the analysis.

Variable Processing Summary

		Variables	
		Dependent	Independent
		PaO2	Sat
Number of Positive Values		25	25
Number of Zeros		1[a]	1[b,,c]
Number of Negative Values		0	0
Number of Missing Values	User-Missing	0	0
	System-Missing	14	14

a. The Compound, Power, S, Growth, Exponential, or Logistic model cannot be calculated.

b. The Inverse or S model cannot be calculated.

c. The Logarithmic or Power model cannot be calculated.

PaO2

Linear

Model Summary

R	R Square	Adjusted R Square	Std. Error of the Estimate
.918	.843	.836	12.387

The independent variable is Sat.

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Regression	19717.678	1	19717.678	128.512	.000
Residual	3682.322	24	153.430		
Total	23400.000	25			

The independent variable is Sat.

Coefficients

	Unstandardized Coefficients		Standardized Coefficients		
	B	Std. Error	Beta	t	Sig.
Sat	81.999	7.233	.918	11.336	.000
(Constant)	-5.568	5.471		-1.018	.319

Quadratic

Model Summary

R	R Square	Adjusted R Square	Std. Error of the Estimate
.960	.922	.915	8.900

The independent variable is Sat.

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Regression	21578.345	2	10789.172	136.223	.000
Residual	1821.655	23	79.202		
Total	23400.000	25			

The independent variable is Sat.

Coefficients

	Unstandardized Coefficients		Standardized Coefficients		
	B	Std. Error	Beta	t	Sig.
Sat	-34.772	24.646	-.389	-1.411	.172
Sat ** 2	110.922	22.885	1.337	4.847	.000
(Constant)	10.114	5.091		1.987	.059

Cubic

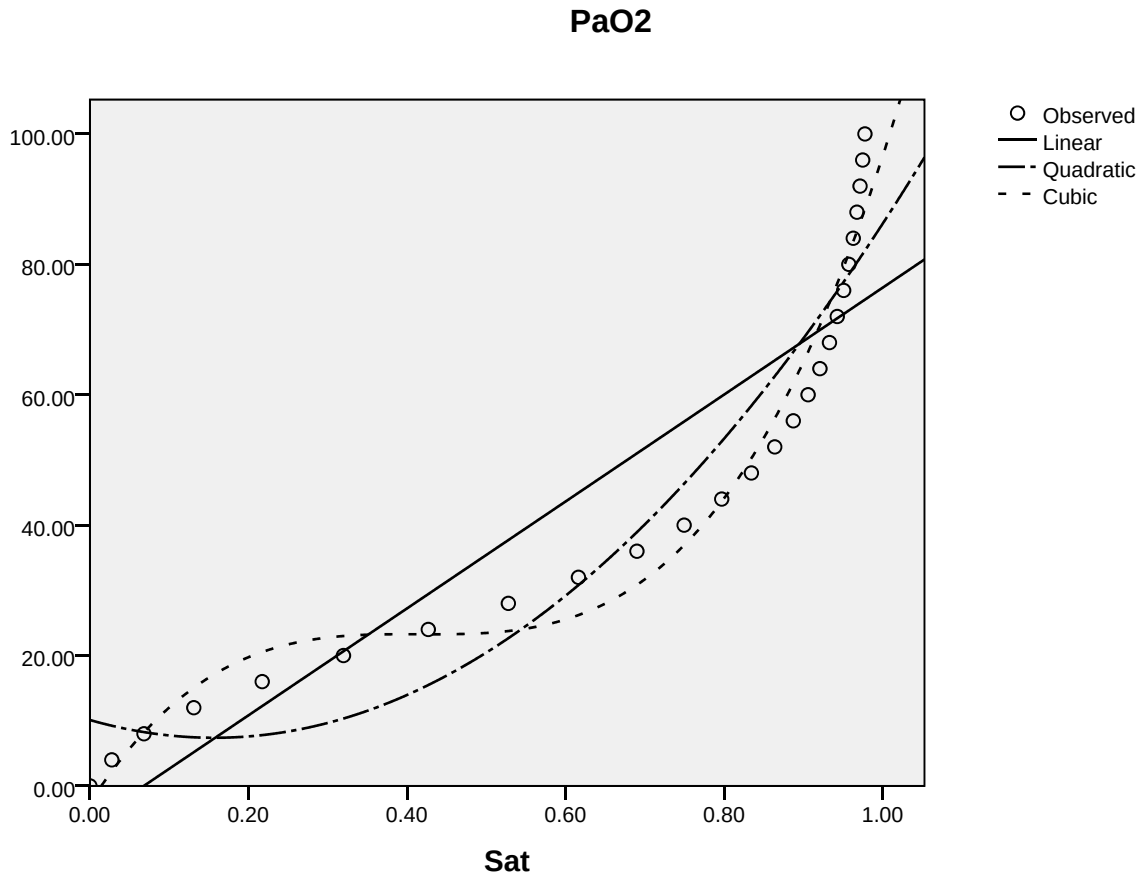
ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Regression	22792.774	3	7597.591	275.263	.000
Residual	607.226	22	27.601		
Total	23400.000	25			

The independent variable is Sat.

Coefficients

	Unstandardized Coefficients		Standardized Coefficients		
	B	Std. Error	Beta	t	Sig.
Sat	188.150	36.621	2.106	5.138	.000
Sat ** 2	-455.117	86.397	-5.487	-5.268	.000
Sat ** 3	366.214	55.209	4.422	6.633	.000
(Constant)	-2.609	3.565		-.732	.472


PaO2
100.00
80.00
60.00
40.00
20.00
0.00
0.00
0.20
0.40
0.60
0.80
1.00
Sat
Observed
Linear
Quadratic
Cubic