

Blood Viscosity Data Set

PCV-Viscosity.sav [DataSet2] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Window Help

1:

	Patient	viscosity	pcv	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var
1	1	3.71	40.00																			
2	2	3.78	40.00																			
3	3	3.85	42.50																			
4	4	3.88	42.00																			
5	5	3.98	45.00																			
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Data View Variable View /

SPSS Processor is ready

To plot the scatterplot of Viscosity vs PCV: select *Graphs* and *Scatter/Dot* from the pulldown menus

The screenshot shows the SPSS Data Editor interface. The 'Graphs' menu is open, and 'Scatter/Dot...' is highlighted. The data table contains the following information:

	Patient	viscosity	pcv
1	1	3.71	40.00
2	2	3.78	40.00
3	3	3.85	42.50
4	4	3.88	42.00
5	5	3.98	45.00
6	6	4.03	42.00
7	7	4.05	42.50
8	8	4.14	47.00
9	9	4.14	46.75
10	10	4.20	48.00
11	11	4.20	46.00
12	12	4.27	47.00
13	13	4.27	43.25
14	14	4.37	45.00
15	15	4.41	50.00
16	16	4.64	45.00
17	17	4.68	51.25
18	18	4.73	50.25
19	19	4.87	49.00
20	20	4.94	50.00
21	21	4.95	50.00
22	22	4.96	49.00
23	23	5.02	50.50
24	24	5.02	51.25
25	25	5.12	49.50
26	26	5.15	56.00
27	27	5.17	50.00
28	28	5.18	47.00
29	29	5.38	53.25
30	30	5.77	57.00
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32	32	5.90	54.00
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Select Simple Scatter and Define

The screenshot shows the SPSS Data Editor window for a file named "PCV-Viscosity.sav [DataSet2]". The main window displays a data table with the following columns: Patient, viscosity, pcv, and 18 empty columns labeled "var". The data rows are numbered 1 through 32. A "Scatter/Dot" dialog box is open in the center of the screen, showing the "Simple Scatter" option selected. The dialog box has a blue title bar and a close button (X) in the top right corner. It contains five radio button options: "Simple Scatter", "Matrix Scatter", "Simple Dot", "Overlay Scatter", and "3-D Scatter". The "Simple Scatter" option is selected. Below the options are three buttons: "Define", "Cancel", and "Help".

	Patient	viscosity	pcv	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var
1	1	3.71	40.00																		
2	2	3.78	40.00																		
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SPSS Processor is ready

On the *Simple Scatterplot* dialog, select the two variables for the Y axis and X axis

The screenshot shows the SPSS Data Editor window with a data table and the Simple Scatterplot dialog box open. The data table has columns for Patient, viscosity, and pcv, with 32 rows of data. The Simple Scatterplot dialog box is centered on the screen, showing the Y Axis set to Patient ID [Patient], the X Axis set to Blood Viscosity (cP) [v], and the Set Markers by field set to Packed Cell Volume [pcv].

	Patient	viscosity	pcv	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var
1	1	3.71	40.00																			
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SPSS Processor is ready

Select **Blood Viscosity** for the Y axis and **Packed Cell Volume** for the X axis.
Click **OK**.

The screenshot shows the SPSS Data Editor window with a data table and a 'Simple Scatterplot' dialog box open. The data table has columns for Patient ID, viscosity, and pcv. The dialog box is configured with 'Blood Viscosity (cP) [vis]' on the Y-axis and 'Packed Cell Volume (%) [pcv]' on the X-axis.

	Patient	viscosity	pcv	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var
1	1	3.71	40.00																		
2	2	3.78	40.00																		
3	3	3.85	42.50																		
4	4	3.88	42.00																		
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The 'Simple Scatterplot' dialog box is open, showing the following configuration:

- Y Axis: Blood Viscosity (cP) [vis]
- X Axis: Packed Cell Volume (%) [pcv]
- Set Markers by: (empty)
- Label Cases by: (empty)
- Panel by: Rows (empty)
- Columns: (empty)
- Use chart specifications from: (empty)

The scatterplot is generated, but no line of best fit is present. To rectify this double-click on the graph to bring up the chart editor

The image shows two windows from the SPSS software. The background window is 'PCV-Viscosity.sav [DataSet2] - SPSS Data Editor', displaying a data table with columns for Patient, viscosity, and pcv. The foreground window is 'Output5 - SPSS Viewer', which contains a scatterplot titled 'Scatter of viscosity pcv'. The scatterplot shows a positive correlation between Packed Cell Volume (%) on the x-axis and Blood Viscosity (cP) on the y-axis. The x-axis ranges from 40.00 to 60.00, and the y-axis ranges from 3.50 to 6.00. The data points are represented by open circles, and no line of best fit is currently visible on the plot.

Patient	viscosity	pcv
1	3.71	40.00
2	3.78	40.00
3	3.85	42.50
4	3.88	42.00
5	3.98	45.00
6	4.03	42.00
7	4.05	42.50
8	4.14	47.00
9	4.14	46.75
10	4.20	48.00
11	4.20	46.00
12	4.27	47.00
13	4.27	43.25
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27	5.17	50.00
28	5.18	47.00
29	5.38	53.25
30	5.77	57.00
31	5.90	54.00
32	5.90	54.00

On the chart editor, we wish to add in the line of best fit.

The screenshot displays the SPSS Data Editor interface with a data table and a Chart Editor window. The data table contains 32 rows of patient data with columns for Patient, viscosity, and pcv. The Chart Editor window shows a scatter plot of Blood Viscosity (cP) on the y-axis (ranging from 3.50 to 6.00) against Packed Cell Volume (%) on the x-axis (ranging from 40.00 to 60.00). The plot contains 32 data points. A red arrow points to the left side of the plot area, indicating the location where a line of best fit would be added.

Patient	viscosity	pcv
1	3.71	40.00
2	3.78	40.00
3	3.85	42.50
4	3.88	42.50
5	3.98	45.00
6	4.03	42.50
7	4.05	42.50
8	4.14	47.50
9	4.14	46.00
10	4.20	48.00
11	4.20	46.00
12	4.27	47.50
13	4.27	43.00
14	4.37	45.00
15	4.41	50.00
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23	5.02	50.00
24	5.02	51.00
25	5.12	49.00
26	5.15	56.00
27	5.17	50.00
28	5.18	47.00
29	5.38	53.00
30	5.77	57.00
31	5.90	54.00
32	5.90	54.00

Select *Elements* and *Fit Line at Total*.

PCV-Viscosity.sav [DataSet2] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Window Help

	Patient	viscosity	pcv	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var
1	1	3.71	40.00																		
2	2	3.78	40.00																		
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Output5 - SPSS Viewer

File Edit View Data Transform Insert Format Analyze Graphs Utilities Window Help

Output

- Graph
- Title
- Notes
- Active Dataset
- Scatter of viscosity pcv

Chart Editor

File Edit View Options Elements Transform Help

- Data Label Mode
- Show Data Labels
- Show Error Bars
- Show Line Markers
- Fit Line at Total
- Add Fit Line at Total
- Interpolation Line
- Explode Slice

Blood Viscosity (cP)

Packed Cell Volume (%)

Add Fit Line at Total H:375, W:468.75 points

1 items selected (0 hidden/collapsed) SPSS Processor is ready H: 375 , W: 469 pt.

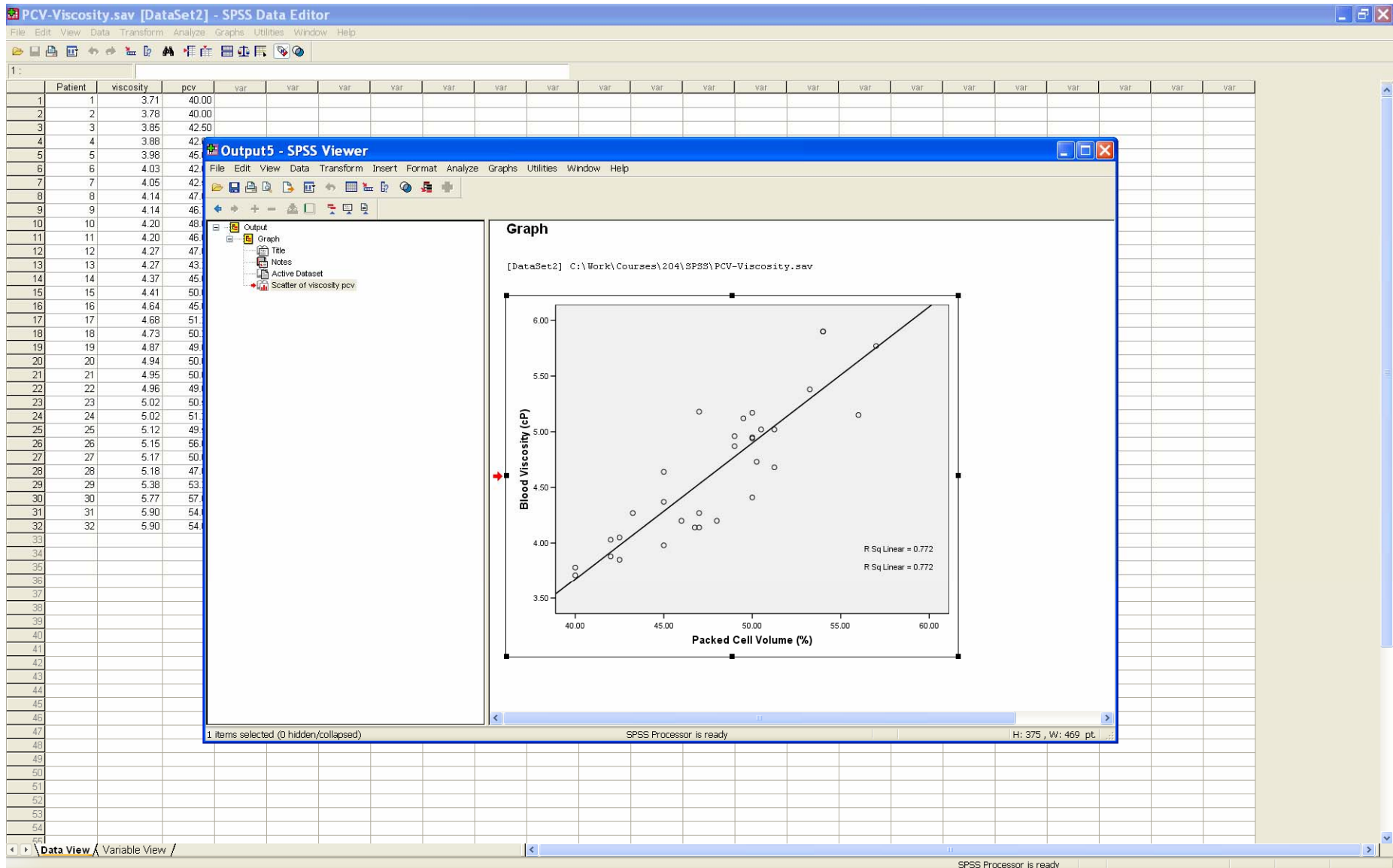
Data View Variable View / SPSS Processor is ready

On the *Properties* dialog, select the *Fit Line* tab, then the *Confidence Intervals None* toggle button, then *Apply* and *Close*.

The screenshot displays the SPSS Data Editor window with a dataset named 'PCV-Viscosity.sav'. The main window shows a grid of data points. An 'Output5 - SPSS Viewer' window is open, displaying a scatter plot titled 'Scatter of viscosity pcv'. The plot shows 'Blood Viscosity (cP)' on the y-axis (ranging from 3.50 to 6.00) and 'Packed Cell Volume (%)' on the x-axis (ranging from 40.00 to 60.00). A linear regression line is fitted to the data points, with the text 'R Sq Linear = 0.772' displayed twice. The 'Properties' dialog box is open, showing the 'Fit Line' tab. The 'Confidence Intervals' section is set to 'None'. The 'Apply' button is highlighted.

Patient	viscosity	pcv
1	3.71	40.00
2	3.78	40.00
3	3.85	42.50
4	3.88	42.50
5	3.98	45.00
6	4.03	42.50
7	4.05	42.50
8	4.14	47.50
9	4.14	46.00
10	4.20	48.00
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28	5.18	47.00
29	5.38	53.00
30	5.77	57.00
31	5.90	54.00
32	5.90	54.00

The chart now has the plotted line of best fit. It is also possible to include confidence intervals on the plot.



To compute the regression model parameter estimates, use the *Analyze, Regression, Linear* pulldown choices

The screenshot shows the SPSS Data Editor interface for a dataset named 'PCV-Viscosity.sav'. The main window displays a grid with two columns: 'Patient' and 'viscosity'. The 'Patient' column contains integers from 1 to 32, and the 'viscosity' column contains corresponding numerical values. The 'Analyze' menu is open, showing a list of statistical procedures. The 'Regression' option is selected, and its sub-menu is open, with 'Linear...' highlighted. Other options in the 'Analyze' menu include Reports, Descriptive Statistics, Compare Means, General Linear Model, Correlate, Classify, Data Reduction, Scale, Nonparametric Tests, and Time Series. The status bar at the bottom indicates 'Linear Regression' and 'SPSS Processor is ready'.

Patient	viscosity
1	3.71
2	3.78
3	3.85
4	3.88
5	3.98
6	4.03
7	4.05
8	4.14
9	4.14
10	4.20
11	4.20
12	4.27
13	4.27
14	4.37
15	4.41
16	4.64
17	4.68
18	4.73
19	4.87
20	4.94
21	4.95
22	4.96
23	5.02
24	5.02
25	5.12
26	5.15
27	5.17
28	5.18
29	5.38
30	5.77
31	5.90
32	5.90

On the *Linear Regression* dialog, select **Blood Viscosity** as *Dependent* variable, and **Packed Cell Volume** as the *Independent* variable. Press the Statistics button.

The screenshot shows the SPSS Data Editor window with a data table and a Linear Regression dialog box. The data table has columns for Patient, viscosity, pcv, and several empty 'var' columns. The Linear Regression dialog box is open, showing 'Blood Viscosity (cP)' as the dependent variable and 'Packed Cell Volume (%)' as the independent variable. The 'Method' is set to 'Enter'. The 'Statistics...' button is highlighted.

	Patient	viscosity	pcv	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var
1	1	3.71	40.00																		
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Select *Model fit*, *Estimates* and *Confidence intervals*, and *Continue*. On the *Linear Regression* dialog, press the *OK* button.

The screenshot shows the SPSS Data Editor window with a dataset named 'PCV-Viscosity.sav [DataSet2]'. The data table contains 32 rows of data with columns for Patient ID, viscosity, and pcv. A 'Linear Regression' dialog box is open, with the 'Linear Regression: Statistics' sub-dialog also open. The 'Linear Regression: Statistics' dialog has the following settings:

- Dependent: Patient ID [Patient]
- Regression Coefficients:
 - Estimates
 - Confidence intervals
 - Covariance matrix
 - Model fit
 - R squared change
 - Descriptives
 - Part and partial correlations
 - Collinearity diagnostics
- Residuals:
 - Durbin-Watson
 - Casewise diagnostics
 - Outliers outside: 3 standard deviations
 - All cases
- WLS weight: (empty field)

Buttons in the dialog include 'Continue', 'Cancel', 'Help', 'Statistics...', 'Plots...', 'Save...', and 'Options...'. The 'OK' button is also visible in the main dialog box.

	Patient	viscosity	pcv	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var
1	1	3.71	40.00																			
2	2	3.78	40.00																			
3	3	3.85	42.50																			
4	4	3.88	42.00																			
5	5	3.98	45.00																			
6	6	4.03	42.00																			
7	7	4.05	42.50																			
8	8	4.14	47.00																			
9	9	4.14	46.75																			
10	10	4.20	48.00																			
11	11	4.20	46.00																			
12	12	4.27	47.00																			
13	13	4.27	43.25																			
14	14	4.37	45.00																			
15	15	4.41	50.00																			
16	16	4.64	45.00																			
17	17	4.68	51.25																			
18	18	4.73	50.25																			
19	19	4.87	49.00																			
20	20	4.94	50.00																			
21	21	4.95	50.00																			
22	22	4.96	49.00																			
23	23	5.02	60.50																			
24	24	5.02	51.25																			
25	25	5.12	49.50																			
26	26	5.15	56.00																			
27	27	5.17	50.00																			
28	28	5.18	47.00																			
29	29	5.38	53.25																			
30	30	5.77	57.00																			
31	31	5.90	54.00																			
32	32	5.90	54.00																			

The output is generated, including a model fit summary, an ANOVA table and the estimated coefficients with confidence intervals.

PCV-Viscosity.sav [DataSet2] - SPSS Data Editor

Patient	viscosity	pcv	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	
1	1	3.71	40.00																			
2	2	3.78	40.00																			
3	3	3.85	42.50																			
4	4	3.88	42.50																			
5	5	3.98	45.00																			
6	6	4.03	42.50																			
7	7	4.05	42.50																			
8	8	4.14	47.50																			
9	9	4.14	46.00																			
10	10	4.20	48.00																			
11	11	4.20	46.00																			
12	12	4.27	47.00																			
13	13	4.27	43.00																			
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16	16	4.64	45.00																			
17	17	4.68	51.00																			
18	18	4.73	50.00																			
19	19	4.87	49.00																			
20	20	4.94	50.00																			
21	21	4.95	50.00																			
22	22	4.96	49.00																			
23	23	5.02	50.00																			
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27	27	5.17	50.00																			
28	28	5.18	47.00																			
29	29	5.38	53.00																			
30	30	5.77	57.00																			
31	31	5.90	54.00																			
32	32	5.90	54.00																			

Output5 - SPSS Viewer

File Edit View Data Transform Insert Format Analyze Graphs Utilities Window Help

Output

- Graph
- Title
- Notes
- Active Dataset
- Scatter of viscosity pcv
- Regression
 - Title
 - Notes
 - Active Dataset
 - Variables Entered/Removed
 - Model Summary
 - ANOVA
 - Coefficients

Model

Model	Entered	Removed	Method
1	Packed Cell Volume (%)		Enter

a. All requested variables entered
b. Dependent Variable: Blood Viscosity (cP)

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.879 ^a	.772	.765	.30116

a. Predictors: (Constant), Packed Cell Volume (%)

ANOVA^b

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	9.230	1	9.230	101.764	.000 ^a
	Residual	2.721	30	.091		
	Total	11.950	31			

a. Predictors: (Constant), Packed Cell Volume (%)
b. Dependent Variable: Blood Viscosity (cP)

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients		t	Sig.	95% Confidence Interval for B	
		B	Std. Error	Beta				Lower Bound	Upper Bound
1	(Constant)	-1.223	.584			-2.094	.045	-2.416	-.030
	Packed Cell Volume (%)	.122	.012	.879	10.088	.000		.098	.147

a. Dependent Variable: Blood Viscosity (cP)

SPSS Processor is ready

Data View Variable View / SPSS Processor is ready

On the output, the p-value reported for the ANOVA table corresponds to a test of the hypothesis that there is no significant relationship between x and y

Output5 - SPSS Viewer

File Edit View Data Transform Insert Format Analyze Graphs Utilities Window Help

Graph

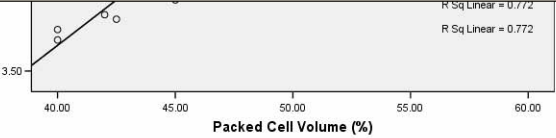
Scatter of viscosity pcv

Regression

Model Summary

ANOVA

Coefficients



Regression

[DataSet2] C:\Work\Courses\204\SPSS\PCV-Viscosity.sav

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Packed Cell Volume (%)		Enter

a. All requested variables entered.
b. Dependent Variable: Blood Viscosity (cP)

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.879 ^a	.772	.765	.30116

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	Packed Cell Volume (%)	.122	.012	.879	10.088	.000	.098	.147

a. Dependent Variable: Blood Viscosity (cP)

SPSS Processor is ready