Blood Viscosity Data Set

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23	23	5.02	50.50	576	5.90																					
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26	26	5.15	56.00	352	5.41																					
27	27	5.17	47.00	572	6.50																					
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Select the Dependent variable (**viscosity**) and the three independent variables 3 (pcv, plasfib and plaspro)



Click the Statistics button: on the Statistics dialog, select Estimates, Confidence⁴ Intervals and Model fit. Click Continue.



Click the Plots button



Select ***ZRESID** for the *Y* variable and ***ZPRED** for the *X* variable.

Then click Next.



Select ***ZRESID** for the *Y* variable and ***ZPRED** for the *X* variable.

Then click Produce all partial Plots. Then Continue.



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Select the quantities to store as new variables in the data set.

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2	2	3.78	40.00	330	4.86	3.62191	.15809	.52055	3.29311	3.95071	2.91827	4.32555					_				
3	3	3.85	42.50	280	5.09	3.90308	05308	1/4/8	3.64141	4.164/5	3.22819	4.57797				-	-				
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7	7	4.05	42.00	336	6.27	3.97283	07717	25409	3 78695	4 15872	3.32356	4.50140									
8	8	4.14	47.00	431	6.89	4.56154	42154	-1.38804	4.33621	4,78688	3.89990	5.22319									
9	9	4.14	46.75	276	5.18	4.40157	26157	86130	4.17972	4.62343	3.74110	5.06204									
10	10	4.20	48.00	422	5.73	4.62831	42831	-1.41031	4.50915	4.74747	3.99490	5.26171									
11	11	4.20	46.00	280	5.89	4.34399	14399	47413	4.17954	4.50844	3.70053	4.98745									
12	12	4.27	47.00	460	6.58	4.56079	29079	95750	4.38678	4.73480	3.91482	5.20676									
13	13	4.27	43.25	412	5.67	4.06698	.20302	.66851	3.89335	4.24060	3.42110	4.71285									
14	14	4.37	45.00	320	6.23	4.25686	.11314	.37255	4.09611	4.41761	3.61433	4.89939					_				
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16	16	4.64	45.00	550	6.37	4.35491	.28609	.93873	4.1/363	4.53619	3.70694	5.00288									L
17	17	4.68	51.25	414	6.4U	5.03159	35159	-1.15771	4.83663	5.22655	4.37966	5.68352									
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23	23	5.02	50.50	576	5.90	4.98907	.03093	.10184	4.85220	5.12594	4.35210	5.62605									
24	24	5.02	51.25	354	5.81	4.98385	.03615	.11902	4.80178	5.16593	4.33566	5.63205									
25	25	5.12	49.50	392	5.49	4.78188	.33812	1.11336	4.62664	4.93711	4.14070	5.42305									
26	26	5.15	56.00	352	5.41	5.52195	37195	-1.22473	5.22653	5.81736	4.83327	6.21062									
27	27	5.17	50.00	572	6.24	4.94267	.22733	.74856	4.79012	5.09521	4.30214	5.58319									
28	28	5.18	47.00	634	6.50	4.62753	.55247	1.81916	4.42040	4.83465	3.97186	5.28320									
29	29	5.38	53.25	458	6.60	5.29093	.08907	.29328	5.04425	5.53762	4.62171	5.96015									
30	30	5.77	57.00	1070	4.82	5.90375	13375	44040	5.45045	6.35704	5.13402	6.67347									
31	31	5.90	54.00	488	5.70	5.35457	.54543	1.79595	5.15881	5.55034	4.70240	6.00675									
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2 viscosity	Numeric	10	2	Blood Viscosity (cP)	None	None	10	Right	Scale
3 pcv	Numeric	10	2	Packed Cell Volume (%)	None	None	8	Right	Scale
4 plasfib	Numeric	10	0 🗘	Plasma Fibrinogen (mg/100ml)	None	None	11	Right	Scale
5 plaspro	Numeric	10	2	Plasma Protein (g/100ml)	None	None	8	Right	Scale
6 PRE_1	Numeric	11	5	Unstandardized Predicted Value	None	None	13	Right	Scale
7 RES_1	Numeric	11	5	Unstandardized Residual	None	None	13	Right	Scale
8 ZRE_1	Numeric	11	5	Standardized Residual	None	None	13	Right	Scale
9 LMCI_1	Numeric	11	5	95% L CI for viscosity mean	None	None	13	Right	Scale
10 UMCI_1	Numeric	11	5	95% U CI for viscosity mean	None	None	13	Right	Scale
11 LICI_1	Numeric	11	5	95% L CI for viscosity individual	None	None	13	Right	Scale
12 UICI_1	Numeric	11	5	95% U CI for viscosity individual	None	None	13	Right	Scale
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- a. Predictors: (Constant), Plasma Protein (g/100ml),
 Plasma Fibrinogen (mg/100ml), Packed Cell Volume (%)
- b. Dependent Variable: Blood Viscosity (cP)

Results: ANOVA

ANOVA^b

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	9.368	3	3.123	33.856	.000 ^a
	Residual	2.582	28	.092		
	Total	11.950	31			

 a. Predictors: (Constant), Plasma Protein (g/100ml), Plasma Fibrinogen (mg/100ml), Packed Cell Volume (%)

b. Dependent Variable: Blood Viscosity (cP)

The ANOVA for the multiple regression has a highly significant F value, with a p-value < 0.001. Here H0 : E[Y] = beta.0H1 : E[Y] = beta.0 + beta.1 x1 + beta.2 x2 + beta.3 x3This result implies that the multiple regression (Ha) fits significantly better than the model with no dependence on any of the predictors (H0).

Results: Parameter Estimates

Coefficients^a

		l	Unstand Coeffi	lardized cients	Standardized Coefficients			95% Confidence	e Interval for B
Model			В	Std. Error	Beta	t	Sig.	Lower Bound	Upper Bound
1	(Constant)	-	-1.378	.897		-1.537	.136	-3.215	.458
	Packed Cell Volume (%)	_	.117	.014	.839	8.584	.000	.089	.145
	Plasma Fibrinogen (mg/100ml)		.000	.000	.111	1.147	.261	.000	.001
	Plasma Protein (g/100ml)		.040	.097	.037	.412	.683	159	.239
a. De	ependent Variable: Blood Viso	cosity	(cP)						

The coefficient and standard error for Plasma Fibrinogen are not exactly zero, but are zero to three decimal places.

Only the Packed Cell Volume coefficient is significantly different from zero (p < 0.001). The intercept (Constant), Plasma Fibrinogen, and Plasma Protein coefficients are not significantly different from zero (p=0.136, 0.261, 0.683 respectively)

Results: Scatterplot of Standardized Residual vs Predicted Value

Scatterplot

Dependent Variable: Blood Viscosity (cP)



Obtaining: Plots of Residuals vs Covariates

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2	2	3.78	40.00	Line	t	3.62191	.15809	.52055	3.29311	3.95071	2.91827	4.32555									
3	3	3.85	42.50	Area	1	3.90308	05308	17478	3.64141	4.16475	3.22819	4.57797			1						
4	4	3.88	42.00	Pie	1	3.96820	08820	29042	3.72518	4.21122	3.30032	4.63608									
5	5	3.98	45.0C	High-Low	i i	4.44615	46615	-1.53491	4.14732	4.74498	3.75600	5.13630									
6	6	4.03	42.00	Basada		3.90369	.12631	.41590	3.68995	4.11743	3.24590	4.56148									
7	7	4.05	42.50	Pareto	1	3.97283	.07717	.25409	3.78695	4.15872	3.32356	4.62211									
8	8	4.14	47.00	Control	1	4.56154	42154	-1.38804	4.33621	4.78688	3.89990	5.22319									
9	9	4.14	46.75	Boxplot	1	4.40157	26157	86130	4.17972	4.62343	3.74110	5.06204									
10	10	4.20	48.UL	Error Bar	ł	4.62831	42831	-1.41031	4.50915	4./4/4/	3.99490	5.26171									
11	11	4.20	46.00	Population Pyrar	mid	4.34399	14399	4/413	4.17954	4.50844	3.70053	4.98745		_			-		-		
12	12	4.27	47.00	Scatter/Dot		4.00079	29079	95750	4.30070	4.73460	3.91402	5.20070									
14	14	4.27	45.20	Histogram	1	4.00050	11314	37255	4.09611	4.24000	3 61433	4.71200									
15	15	4.41	50.00	P-P	-	4.25000	- 45448	-1.49650	4,65413	5.07484	4.20779	5 52118									
16	16	4.64	45.00	0-0	- 1	4.35491	.28509	.93873	4.17363	4.53619	3,70694	5.00288									
17	17	4.68	51.25	Sequence	5	5.03159	35159	-1.15771	4.83663	5.22655	4.37966	5.68352									
18	18	4.73	50.25	ROC Curve	1	4.85454	12454	41008	4.66195	5.04713	4.20331	5.50577									
19	19	4.87	49.00	Time Series	I	4.77364	.09636	.31730	4.65936	4.88791	4.14113	5.40614									
20	20	4.94	50.00	/ 28	5.16	4.96213	02213	07287	4.71448	5.20978	4.29255	5.63171									
21	21	4.95	50.00	716	6.29	5.00255	05255	17303	4.78804	5.21706	4.34451	5.66059									
22	22	4.96	49.00	400	5.96	4.74550	.21450	.70631	4.61602	4.87497	4.11007	5.38092									
23	23	5.02	50.50	576	5.90	4.98907	.03093	.10184	4.85220	5.12594	4.35210	5.62605									
24	24	5.02	51.25	354	5.81	4.98385	.03615	.11902	4.80178	5.16593	4.33566	5.63205									
25	25	5.12	49.50	392	5.49	4.78188	.33812	1.11336	4.62664	4.93711	4.140/0	5.42305									
26	26	5.15	56.00	352	5.41	5.52195	37195	-1.224/3	5.22653	5.81736	4.83327	6.21062									
2/	2/	5.17	50.00	572	6.24	4.94267	.227.33	1 91010	4.79012	5.09521	4.30214	5.56319									
20	20	5.10	47.00 63.26	458	6.60	4.02700	.55247	20328	5.04/25	6.63762	4 62171	5.20320									
30	30	5.30	57.00	430	4.82	5.20005	- 13375	- 44040	5.45045	6 35704	5 13402	6.67347									
31	31	5.90	54.00	488	5.70	5.35457	.54543	1.79595	5.15881	5.55034	4,70240	6.00675									
32	32	5.90	54.00	488	5.70	5.35457	.54543	1.79595	5.15881	5.55034	4.70240	6.00675									
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1	1	3./1	40.00	344	6.27	3.68399	.02601	.08565	3.45258	3.91540	3.02025	4.34//3			-						-
2	2	3.85	40.00	280	4.00	3 90308	- 05308	- 17478	3.64141	4 16475	3 22819	4.52555			-	1					
4	4	3.88	42.00	418	6.79	3.96820	08820	29042	3.72518	4.21122	3.30032	4.63608				-			-		
5	5	3.98	45.00	774	6.40	4.44615	46615	-1.53491	4.14732	4.74498	3.75600	5.13630			-				-		-
6	6	4.03	42.00	388	5.48	3.90369	.12631	.41590	3.68995	4.11743	3.24590	4.56148									
7	7	4.05	42.50	336	6.27	3.97283	.07717	.25409	3.78695	4.15872	3.32356	4.62211									
8	8	4.14	47.00	431	6.89	4.56154	42154	-1.38804	4.33621	4.78688	3.89990	5.22319									
9	9	4.14	46.75	276	5.18	4.40157	26157	86130	4.17972	4.62343	3.74110	5.06204									
10	10	4.20	48.00	422	5.73	4.62831	42831	-1.41031	4.50915	4.74747	3.99490	5.26171									
11	11	4.20	46.00	280	5.89	4.34399	14399	47413	4.17954	4.50844	3.70053	4.98745									_
12	12	4.27	47.00	460	6.58	4.56079	29079	95750	4.386/8	4.73480	3.91482	5.20b/b								<u> </u>	
14	13	4.27	43.25	412	5.67	4.06698	.20302	.66651	3.89335	4.24060	3.42110	4.71285									-
14	14	4.37	45.00	502	1 99	4.23000	- 45448	-1 49650	4.05011	5.07/8/	1 20779	5 52118						-			
16	15	4.41	45.00	550	6.37	4.00440	40440	93873	4.03413	4.53619	3 70694	5.00288									
17	17	4.68	51.25	414	6.40	5.03159	- 35159	-1.15771	4.83663	5.22655	4 37966	5 68352								<u> </u>	
18	18	4.73	50.25	304	6.00	4.85454	- 12454	41008	4.66195	5.04713	4.20331	5.50577									-
19	19	4.87	49.00	472	5.94	4.77364	.09636	.31730	4.65936	4.88791	4.14113	5.40614									
20	20	4.94	50.00	728	5.16	4.96213	02213	07287	4.71448	5.20978	4.29255	5.63171									-
21	21	4.95	50.00	716	6.29	5.00255	05255	17303	4.78804	5.21706	4.34451	5.66059									
22	22	4.96	49.00	400	5.96	4.74550	.21450		101000	1.07.107	7	5.38092									
23	23	5.02	50.50	576	5.90	4.98907	.03093	Scatte	er/Dot		C 🔀	5.62605									
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25	25	5.12	49.50	392	5.49	4.78188	.33812	1	mple 🙀 Matrix	: Simple		5.42305									
26	26	5.15	56.00	352	5.41	5.52195	37195	-1 📴 🕷				6.21062					_				
27	27	5.17	50.00	5/2	6.24	4.94267	.22733	Sc	catter Scatter		Help 4	5.58319									4
28	28	5.18	47.00	634	6.50	4.62/53	.55247				P	5.28320								<u> </u>	
29	29	5.30	53.25	430	0.00	5.29093	.00907	44040	E AEDAE	C 25704	5 12402	5.90015									_
31	30	5.90	54.00	488	5.70	5 35457	54543	1 79595	5 15881	5 55034	4 70240	6.00675									-
32	32	5.00	54.00	488	5.70	5 35457	54543	1,79595	5 15881	5 55034	4 70240	6.00675									
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Select the standardized residuals, and the three covariates for the

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1	Patient	viscosity 3.71	40.00	plastib 344	plaspro 6.27	PRE_1 3.68399	RES_1 02601		LMCI_1 3.45	258	3 91540	LICI_1 3.02025	UICI_1 var 4 34773	var							
2	2	3.78	40.00	330	4.86	3.62191	.15809	.52055	3.29	311	3.95071	2.91827	4.32555								
3	3	3.85	42.50	280	5.09	3.90308	05308	17478	3.64	141	4.16475	3.22819	4.57797			1					
4	4	3.88	42.00	418	6.79	3.96820	08820	29042	3.72	2518	4.21122	3.30032	4.63608								
5	5	3.98	45.00	774	6.40	4.44615	46615	-1.53491	4.14	1732	4.74498	3.75600	5.13630								
6	6	4.03	42.00	388	5.48	3.90369	.12631	.41590	3.68	1995	4.11743	3.24590	4.56148								
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9	9	4.14	47.00	276	5.18	4.00104	- 26157	- 86130	4.55	972	4.70000	3 74110	5.06204								
10	10	4.20	48.00	422	5.73	4.62831	42831	-1.41031	4.50	915	4.74747	3.99490	5.26171		-	-					
11	11	4.20	46.00	280	5.89	4.34399	14399	47413	4.17	954	4.50844	3.70053	4.98745						-		
12	12	4.27	47.00	460	6.58	4.56079	29079	Coraro	1.00	070	4 73 400	2.04.02	5.20676								
13	13	4.27	43.25	412	5.67	4.06698	.20302	Scat	terplot M	atrix			4.71285								
14	14	4.37	45.00	320	6.23	4.25686	.11314	Q. Patio	unt ID (Patient)		Matrix Variables:	OF	4.89939								
15	15	4.41	50.00	502	4.99	4.86448	45448	Blood	d Viscosity (cP) [v		🔗 Standardized Res		5.52118								
10	10	4.64	45.00	550	6.37	4.35491	.28509	🚽 🖉 Unsta	andardized Predic		Packed Cell Volu	n	5.00266								
17	17	4.00	50.25	304	6.00	4 85454	- 12454	Unsta	andardized Resid	_	Plasma Fibrinoger	Reset	5.50532		-						
19	19	4.87	49.00	472	5.94	4,77364	.09636	95%	L LI for viscosity I		Manda roteirig	Cancel	5.40614								
20	20	4.94	50.00	728	5.16	4.96213	02213	A 95%	L CI for viscosity i	_	Set Markers by:	Help	5.63171								
21	21	4.95	50.00	716	6.29	5.00255	05255	ar 95% I	U CI for viscosity	- P-			5.66059								
22	22	4.96	49.00	400	5.96	4.74550	.21450			_	Label Cases by:		5.38092								
23	23	5.02	50.50	576	5.90	4.98907	.03093			- F			5.62605				-				
24	24	5.02	51.25	354	5.81	4.98385	.03615			Panel by	,		5.63205	-							
25	25	5.12	49.50	392	5.49	4.70100	.33012				Rows:		5.42305	-							
27	27	5.17	50.00	572	6.24	4.94267	.22733			<u> </u>			5.58319	-							
28	28	5.18	47.00	634	6.50	4.62753	.55247			-	Nast originalize factor	metu rouus)	5.28320								
29	29	5.38	53.25	458	6.60	5.29093	.08907				Columns:	subly iows)	5.96015								
30	30	5.77	57.00	1070	4.82	5.90375	13375				Columns.		6.67347								
31	31	5.90	54.00	488	5.70	5.35457	.54543						6.00675								
32	32	5.90	54.00	488	5.70	5.35457	.54543				Nest variables (no e	mpty columns)	6.006/5		_						
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