

Analysis of change fromm baseline blood lead levels -- Linear Mixed Model

Model Information	
Data Set	WORK.ANALYSIS_DATA2
Dependent Variable	bloodlevel
Covariance Structure	Compound Symmetry
Subject Effect	id
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Kenward-Roger2
Degrees of Freedom Method	Kenward-Roger2

Class Level Information		
Class	Levels	Values
trt	2	A P

Dimensions	
Covariance Parameters	3
Columns in X	6
Columns in Z per Subject	3
Subjects	100
Max Obs per Subject	3

Number of Observations	
Number of Observations Read	300
Number of Observations Used	300
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	1900.36481189	
1	3	1838.23666783	0.00002693
2	1	1838.21911104	0.00000003
3	1	1838.21909119	0.00000000

Convergence criteria met.

Estimated G Matrix					
Row	Effect	Subject	Col1	Col2	Col3
1	Intercept	1	16.1937	-1.7683	-1.7683
2	week4	1	-1.7683	16.1937	-1.7683
3	week6	1	-1.7683	-1.7683	16.1937

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Covariance Parameter Estimates					
Cov Parm	Subject	Estimate	Standard Error	Z Value	Pr > Z
Variance	id	17.9619	4.4847	4.01	<.0001
CS	id	-1.7683	1.7420	-1.02	0.3101
Residual		9.0828	2.3279	3.90	<.0001

Fit Statistics	
-2 Res Log Likelihood	1838.2
AIC (Smaller is Better)	1844.2
AICC (Smaller is Better)	1844.3
BIC (Smaller is Better)	1852.0

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
2	62.15	<.0001

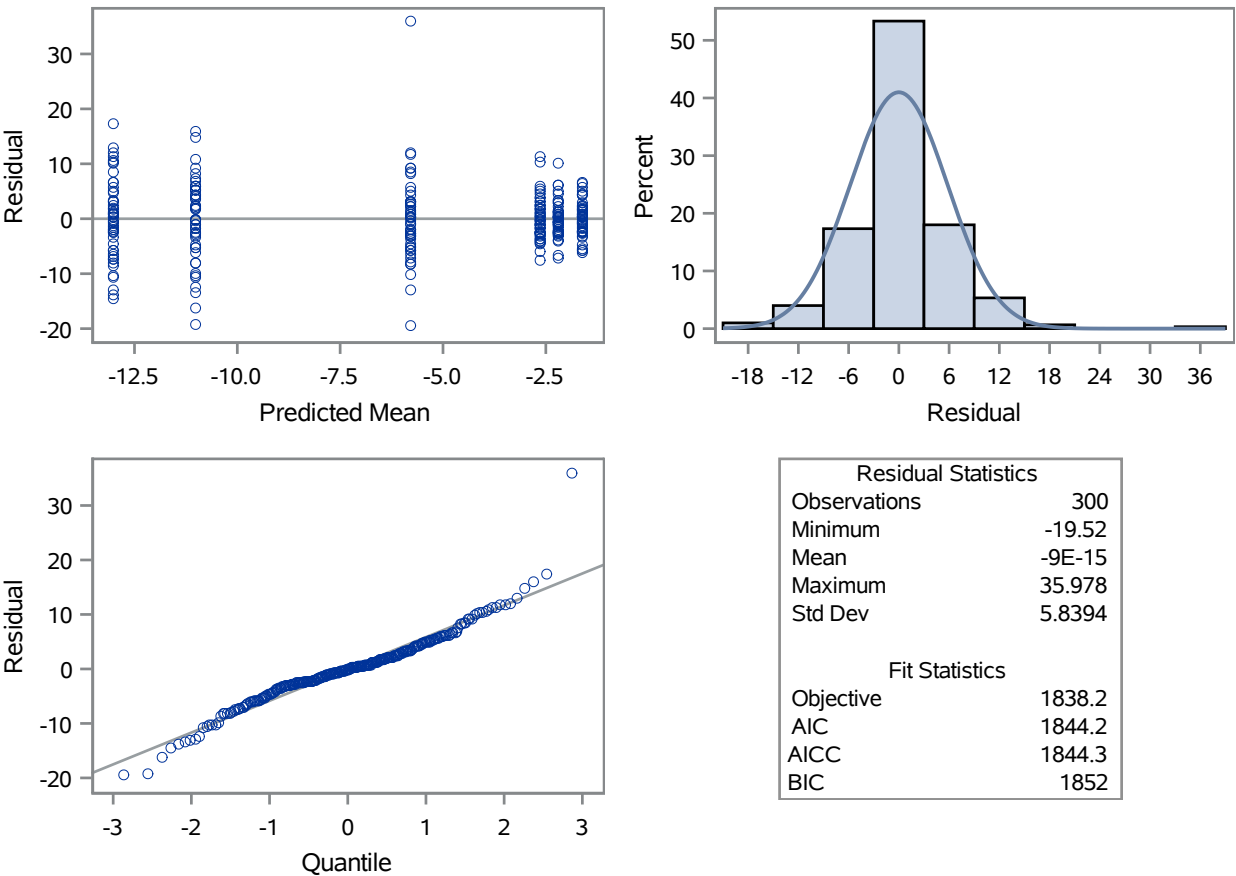
Solution for Fixed Effects						
Effect	trt	Estimate	Standard Error	DF	t Value	Pr > t
week1*trt	A	-13.0180	0.7110	257	-18.31	<.0001
week1*trt	P	-1.6120	0.7110	257	-2.27	0.0242
week4*trt	A	-11.0260	0.8710	197	-12.66	<.0001
week4*trt	P	-2.2020	0.8710	197	-2.53	0.0123
week6*trt	A	-5.7780	0.8710	197	-6.63	<.0001
week6*trt	P	-2.6260	0.8710	197	-3.01	0.0029

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
week1*trt	2	257	170.19	<.0001
week4*trt	2	197	83.32	<.0001
week6*trt	2	197	26.55	<.0001

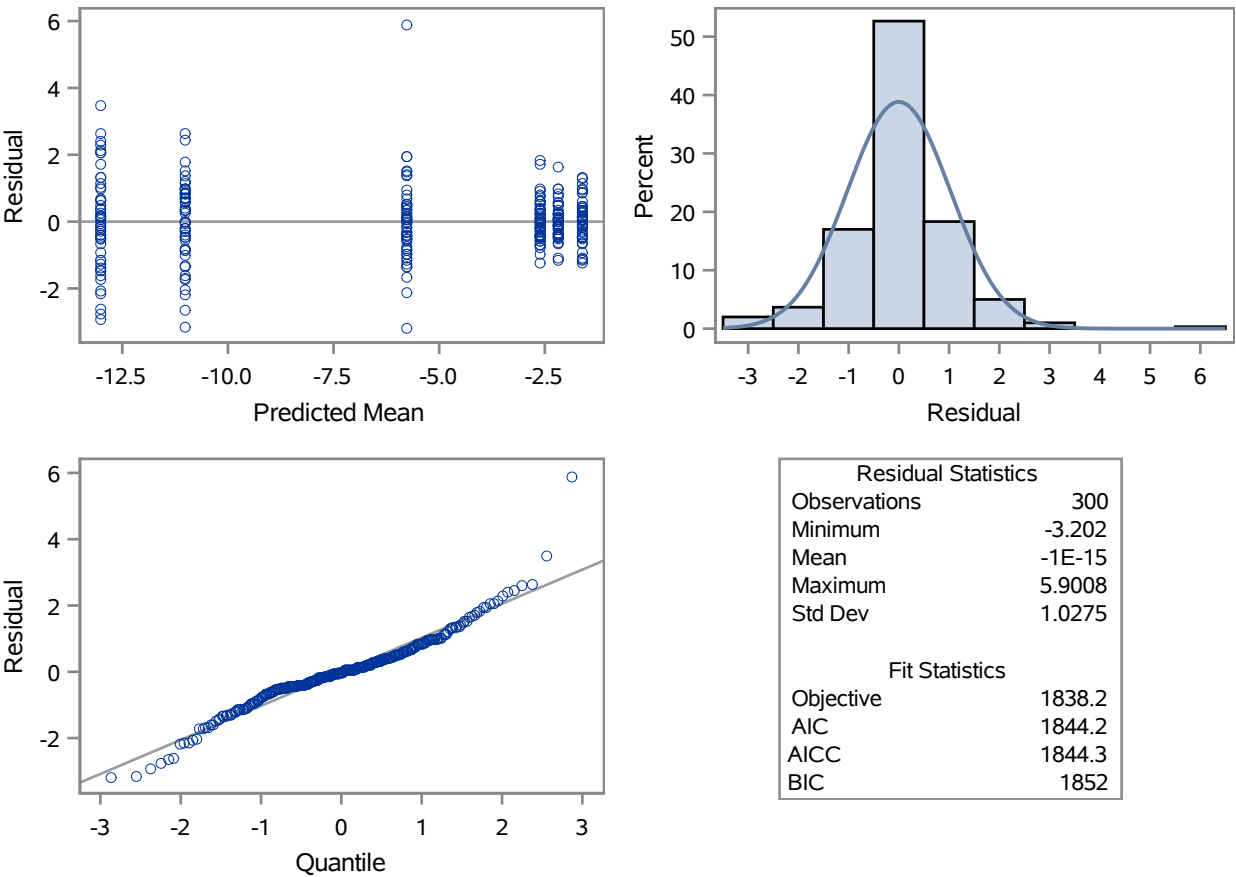
Contrasts				
Label	Num DF	Den DF	F Value	Pr > F
Treatment Effect	3	159	47.58	<.0001

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Residuals for bloodlevel

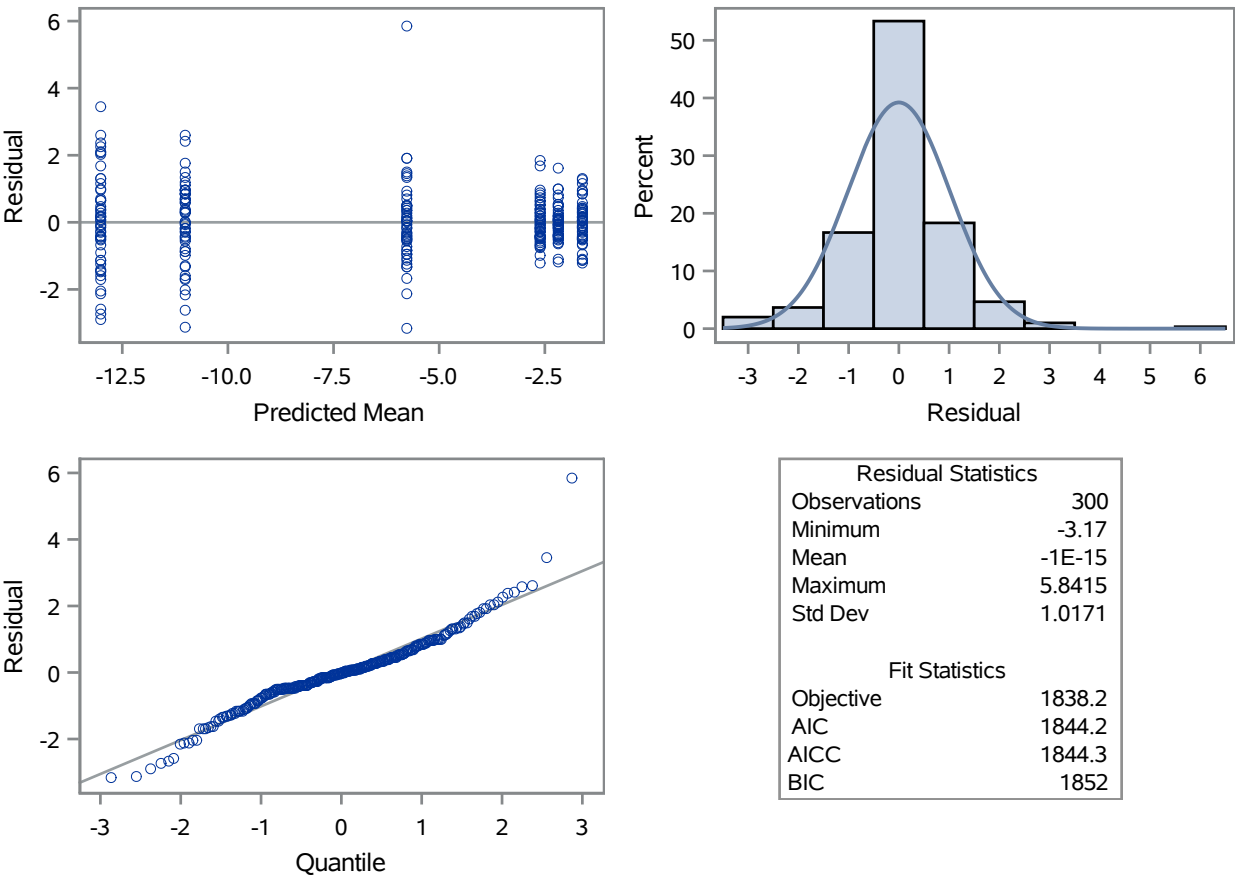


Studentized Residuals for bloodlevel

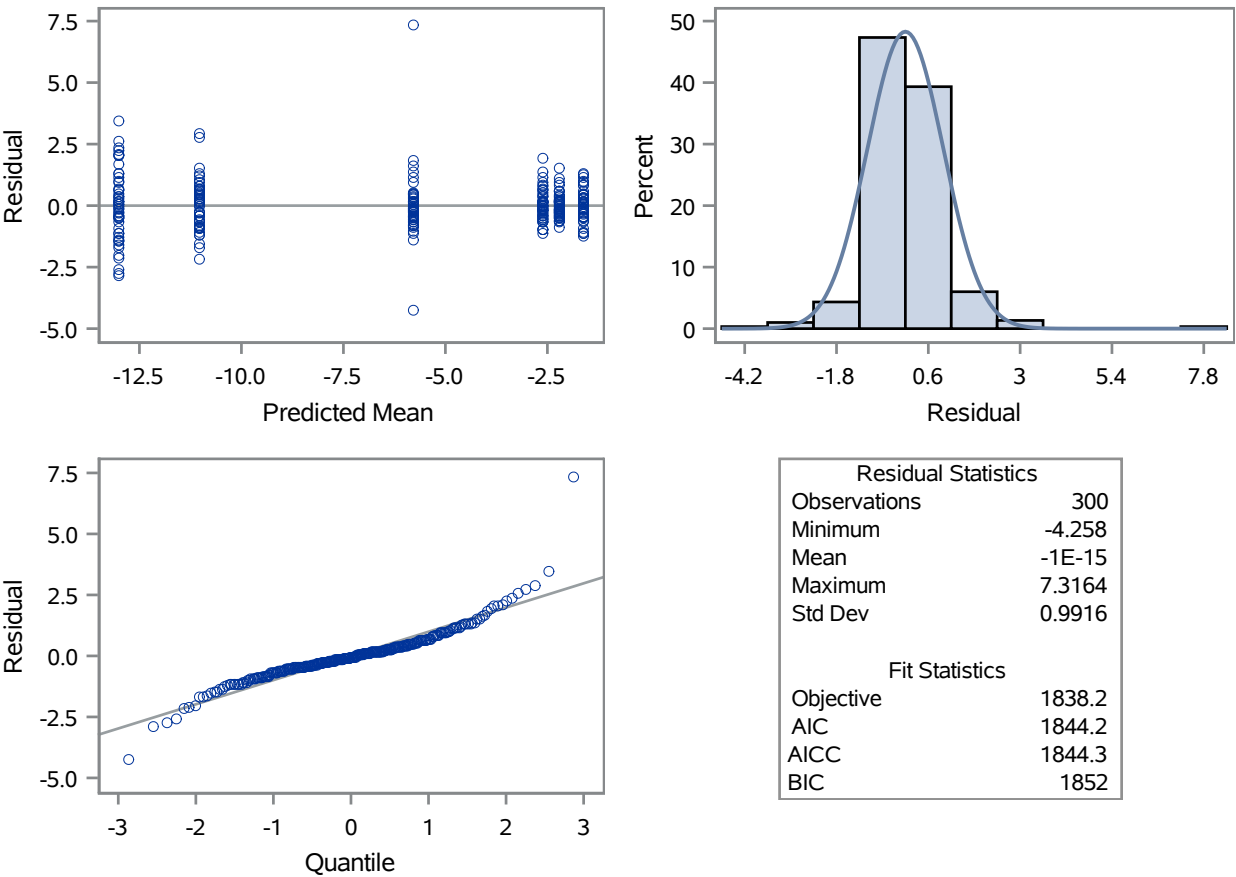


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Pearson Residuals for bloodlevel

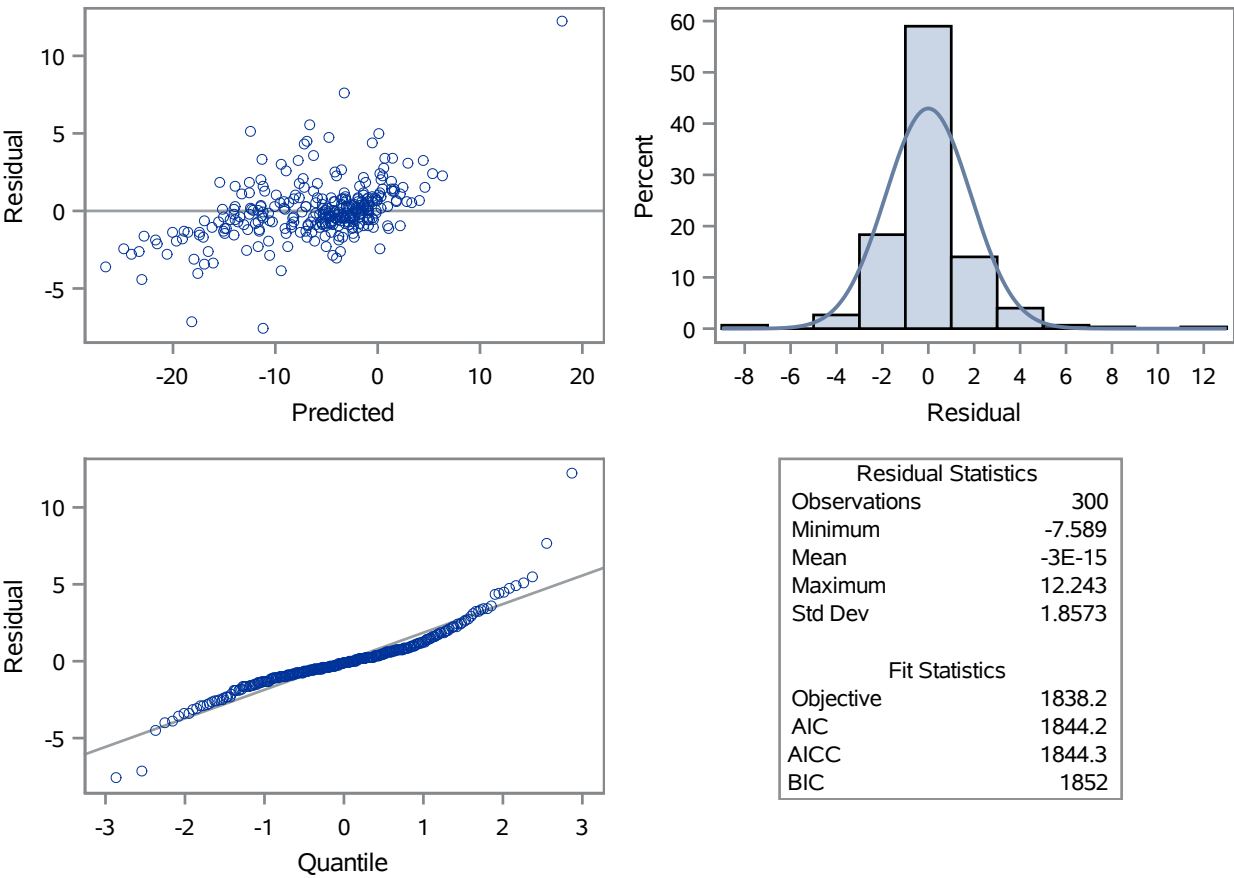


Scaled Residuals for bloodlevel

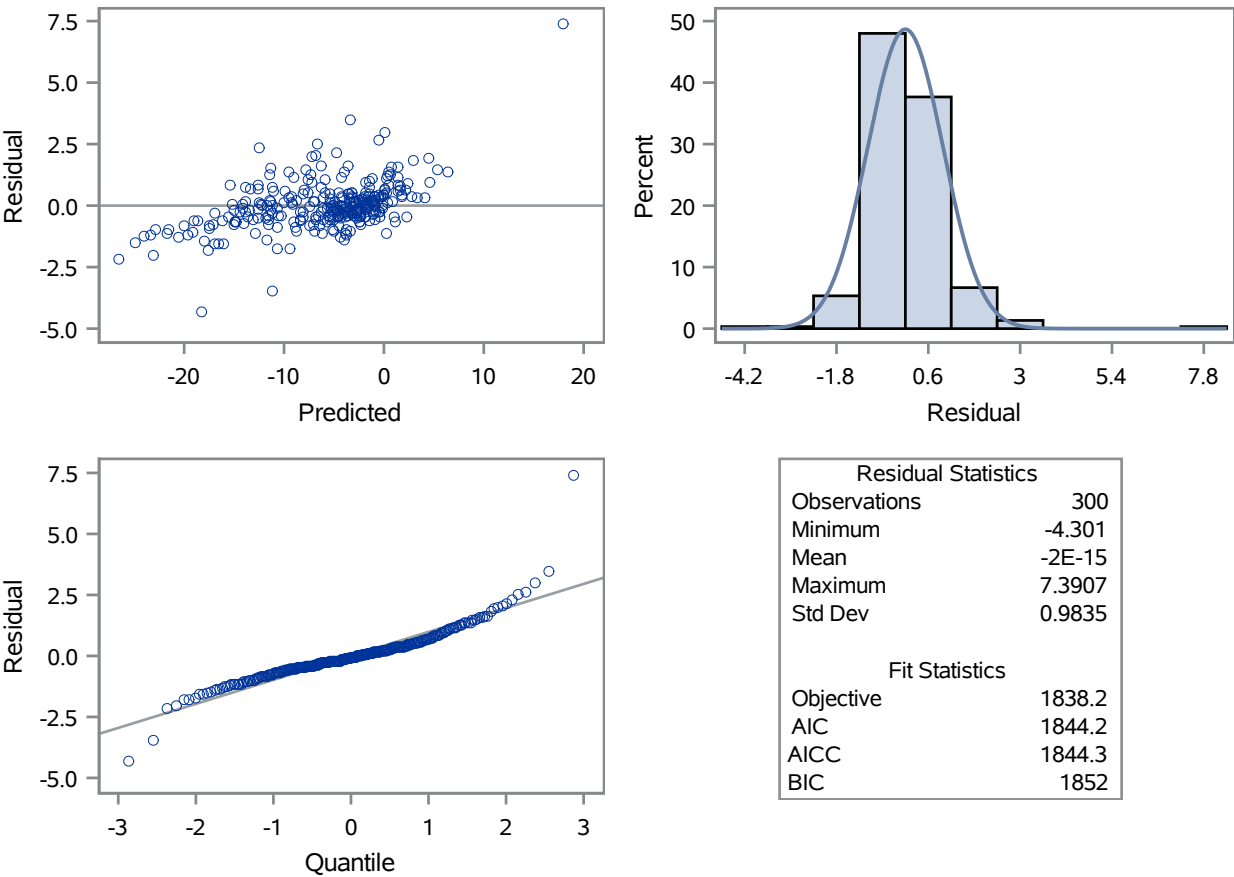


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Conditional Residuals for bloodlevel



Conditional Studentized Residuals for bloodlevel



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Conditional Pearson Residuals for bloodlevel

