

Analysis Via the Linear Mixed Model

Model Information	
Data Set	DAT2.NYS_DEVIANCE
Dependent Variable	ATTDEV
Covariance Structure	Unstructured
Subject Effect	CASEID
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Containment

Class Level Information		
Class	Levels	Values
SEXC	2	Female Male
ETHCAT	3	Black/African American Other White
CASEID	214	3 6 8 9 15 33 45 77 79 83 93 96 107 119 120 127 128 138 141 152 158 159 165 168 186 189 190 194 198 199 208 211 231 237 244 249 259 262 266 268 281 297 314 330 362 363 369 374 380 385 387 396 398 400 411 419 422 424 434 442 453 454 459 468 473 488 514 520 522 528 529 536 555 561 566 569 570 590 593 606 615 618 624 629 639 648 651 657 659 677 686 708 712 715 718 719 723 725 747 749 750 755 765 799 818 824 825 829 848 851 868 871 879 897 901 902 907 913 918 923 941 946 949 962 972 978 1006 1012 1013 1021 1023 1024 1030 1040 1042 1044 1049 1053 1059 1062 1064 1072 1073 1103 1105 1107 1111 1117 1134 1141 1143 1160 1165 1166 1174 1176 1179 1199 1201 1206 1226 1230 1238 1240 1244 1249 1253 1277 1289 1304 1306 1320 1323 1333 1334 1336 1351 1369 1371 1385 1386 1395 1405 1415 1423 1428 1434 1437 1441 1448 1450 1477 1496 1507 1514 1524 1526 1527 1531 1538 1542 1552 1577 1581 1593 1598 1615 1641 1650 1653 1677 1693 1696 1720

Dimensions	
Covariance Parameters	4
Columns in X	8
Columns in Z per Subject	2
Subjects	214
Max Obs per Subject	7

Number of Observations	
Number of Observations Read	1764
Number of Observations Used	1378
Number of Observations Not Used	386

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	1431.71866513	
1	2	1078.35775808	0.00038589
2	1	1078.06057424	0.00000465
3	1	1078.05718787	0.00000000

Convergence criteria met.

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Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(1,1)	CASEID	0.1172
UN(2,1)	CASEID	-0.00897
UN(2,2)	CASEID	0.000973
Residual		0.09185

Fit Statistics	
-2 Res Log Likelihood	1078.1
AIC (Smaller is Better)	1086.1
AICC (Smaller is Better)	1086.1
BIC (Smaller is Better)	1099.5

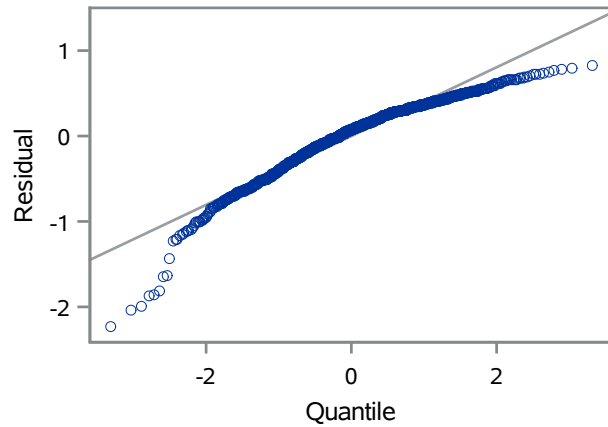
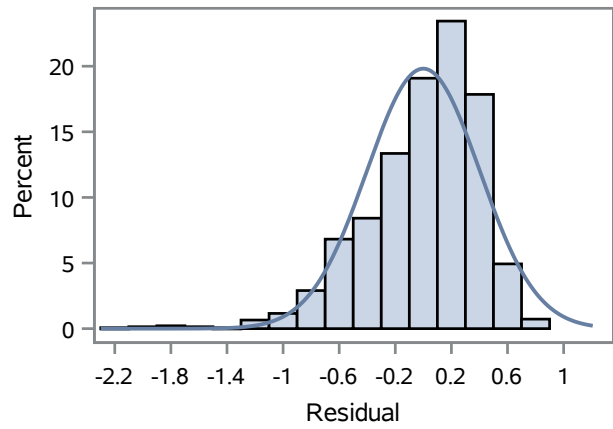
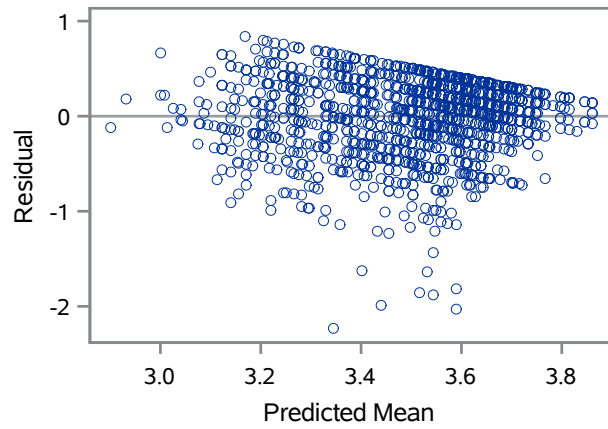
Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
3	353.66	<.0001

Solution for Fixed Effects							
Effect	Sex (Character)	Ethnicity (Character)	Estimate	Standard Error	DF	t Value	Pr > t
Intercept			4.3700	0.09133	209	47.85	<.0001
SEXC	Female		0.05672	0.03779	955	1.50	0.1337
SEXC	Male		0
ETHCAT		Black/African American	0.1126	0.05020	955	2.24	0.0251
ETHCAT		Other	-0.04458	0.07128	955	-0.63	0.5318
ETHCAT		White	0
EXPOSURE			-0.1599	0.05227	955	-3.06	0.0023
AGE			-0.04715	0.003407	208	-13.84	<.0001

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
SEXC	1	955	2.25	0.1337
ETHCAT	2	955	2.90	0.0555
EXPOSURE	1	955	9.35	0.0023
AGE	1	208	191.55	<.0001

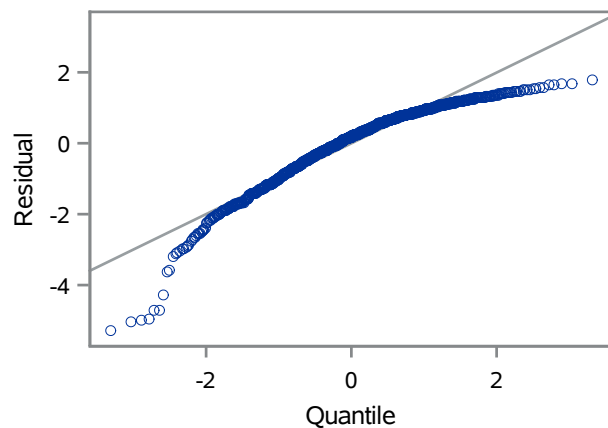
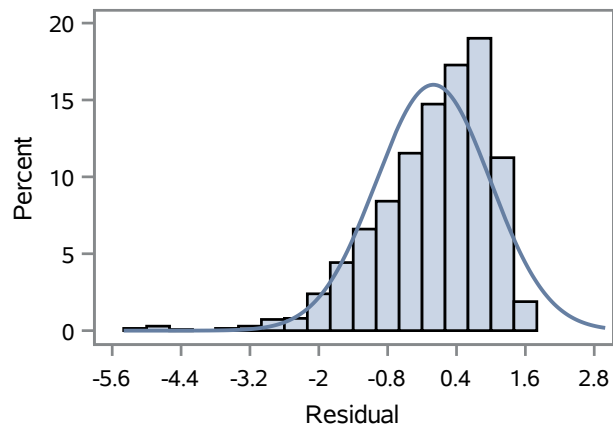
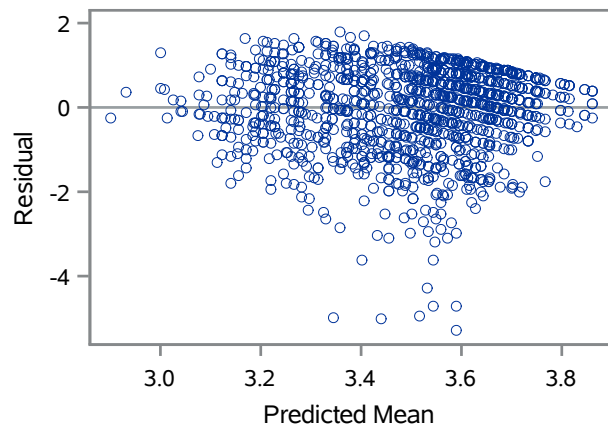
Analysis Via the Linear Mixed Model

Residuals for ATTDEV



Residual Statistics	
Observations	1378
Minimum	-2.234
Mean	-34E-5
Maximum	0.8318
Std Dev	0.4026
Fit Statistics	
Objective	1078.1
AIC	1086.1
AICC	1086.1
BIC	1099.5

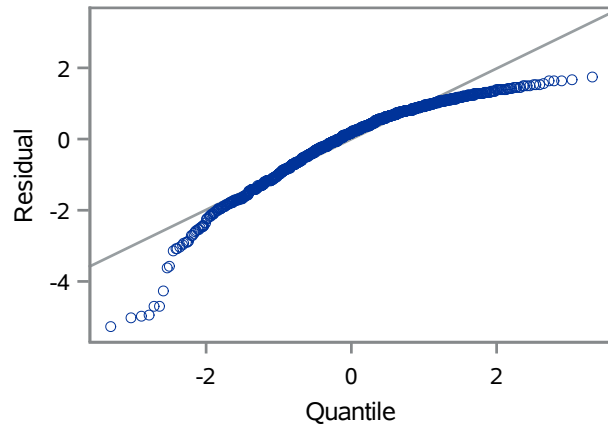
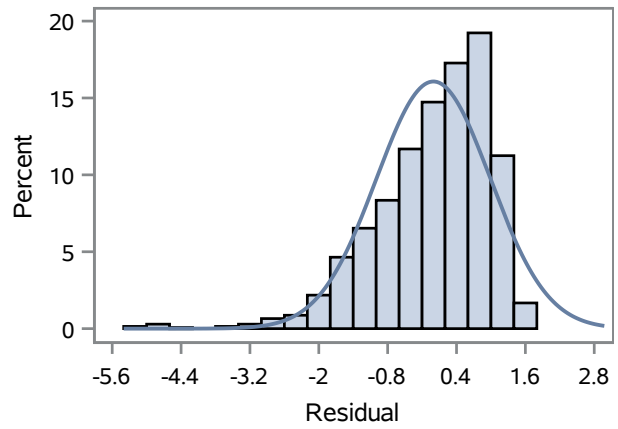
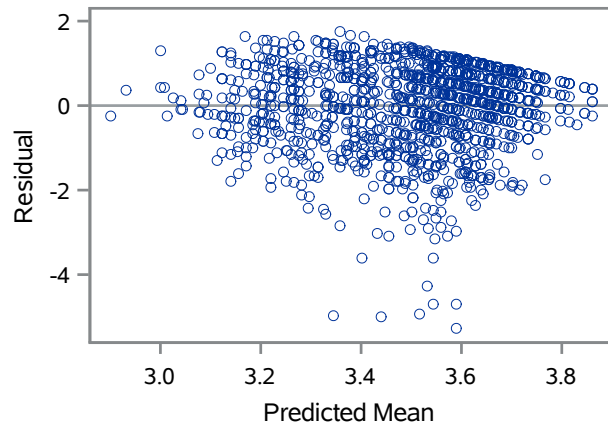
Studentized Residuals for ATTDEV



Residual Statistics	
Observations	1378
Minimum	-5.293
Mean	-0.003
Maximum	1.7955
Std Dev	0.998
Fit Statistics	
Objective	1078.1
AIC	1086.1
AICC	1086.1
BIC	1099.5

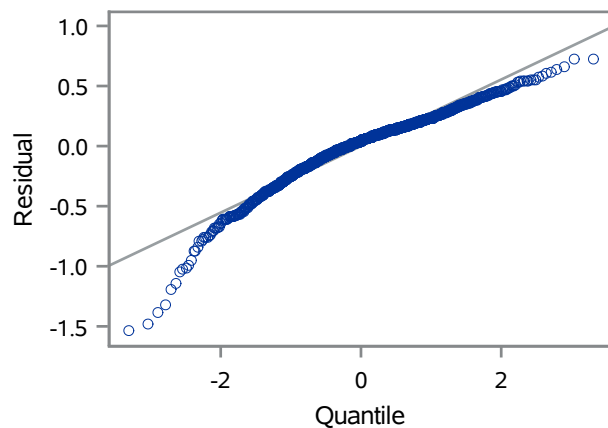
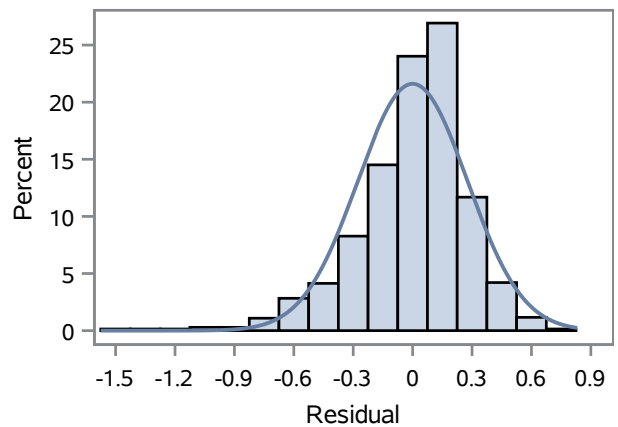
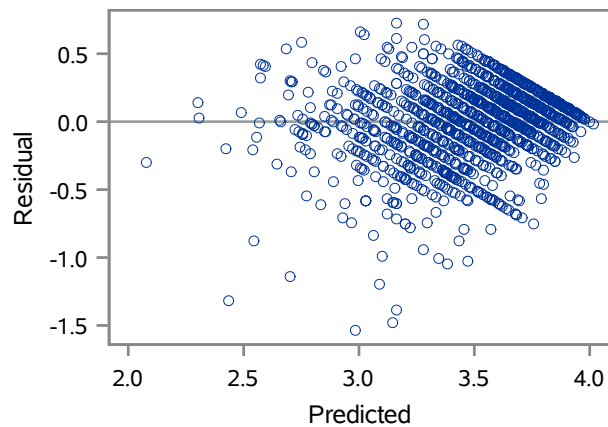
Analysis Via the Linear Mixed Model

Pearson Residuals for ATTDEV



Residual Statistics	
Observations	1378
Minimum	-5.278
Mean	-0.003
Maximum	1.7579
Std Dev	0.9929
Fit Statistics	
Objective	1078.1
AIC	1086.1
AICC	1086.1
BIC	1099.5

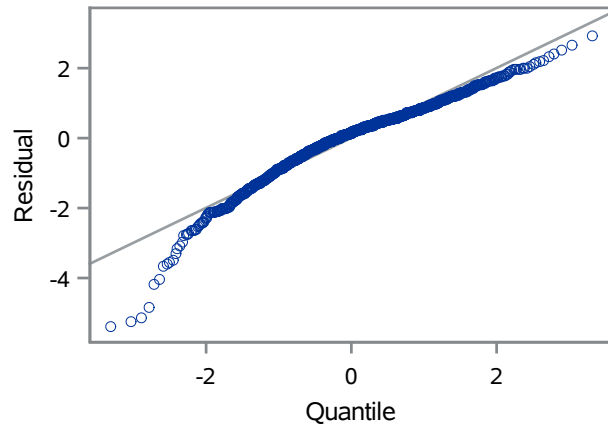
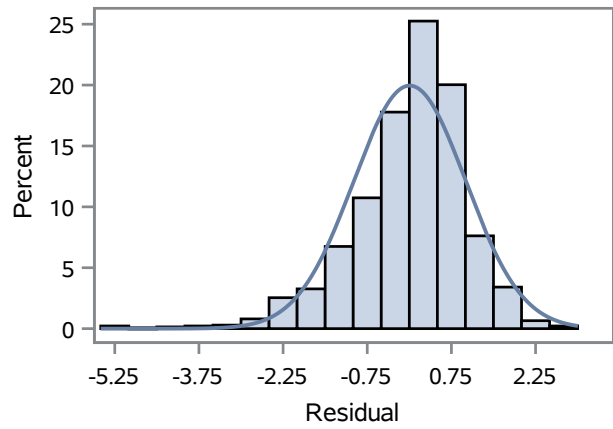
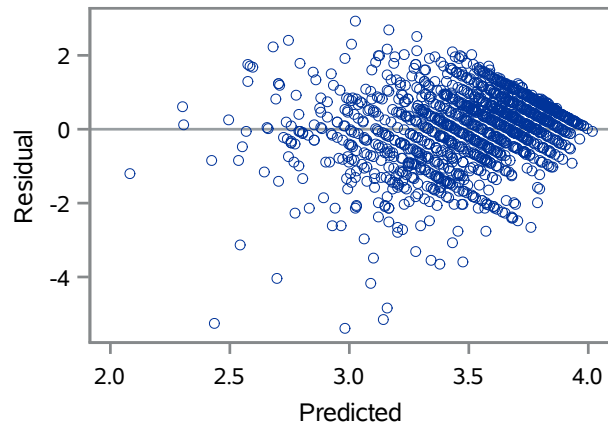
Conditional Residuals for ATTDEV



Residual Statistics	
Observations	1378
Minimum	-1.538
Mean	6E-16
Maximum	0.7255
Std Dev	0.2769
Fit Statistics	
Objective	1078.1
AIC	1086.1
AICC	1086.1
BIC	1099.5

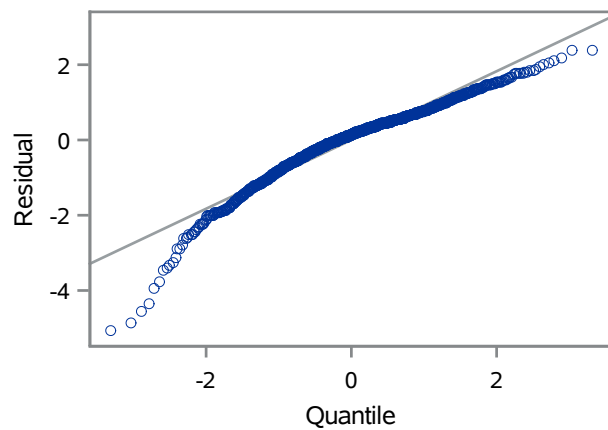
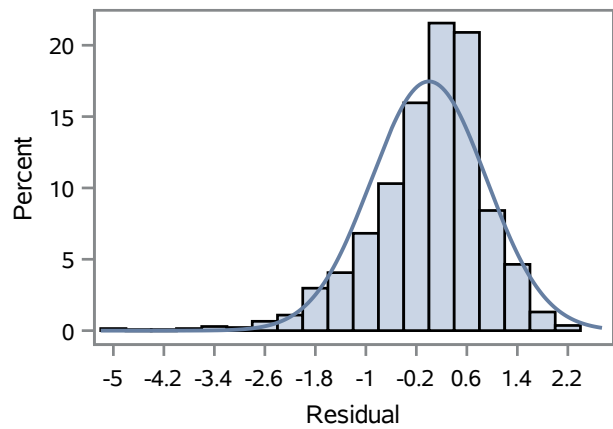
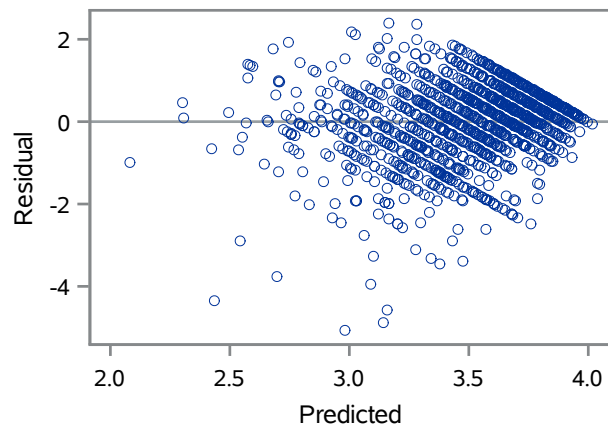
Analysis Via the Linear Mixed Model

Conditional Studentized Residuals for ATTDEV



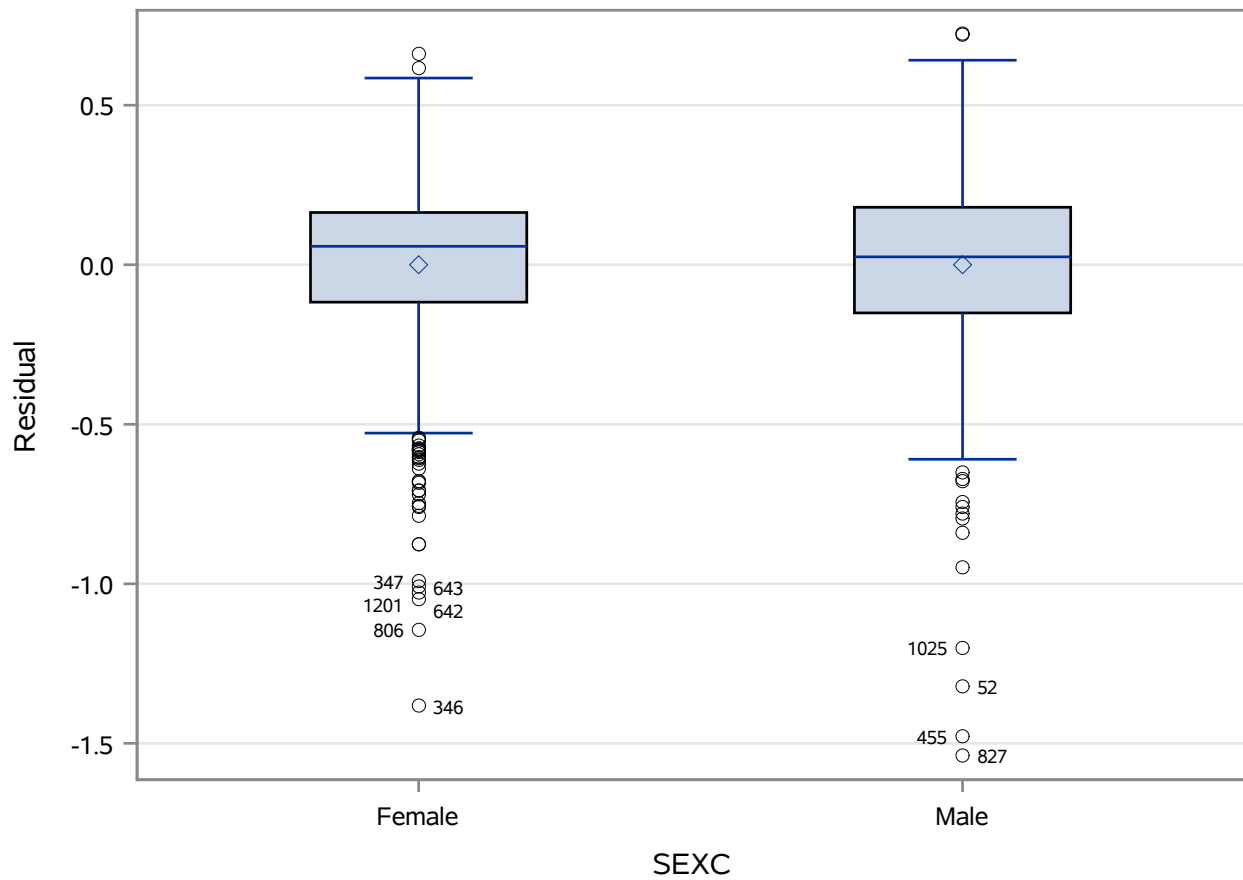
Residual Statistics	
Observations	1378
Minimum	-5.398
Mean	0.0066
Maximum	2.9276
Std Dev	0.9995
Fit Statistics	
Objective	1078.1
AIC	1086.1
AICC	1086.1
BIC	1099.5

Conditional Pearson Residuals for ATTDEV

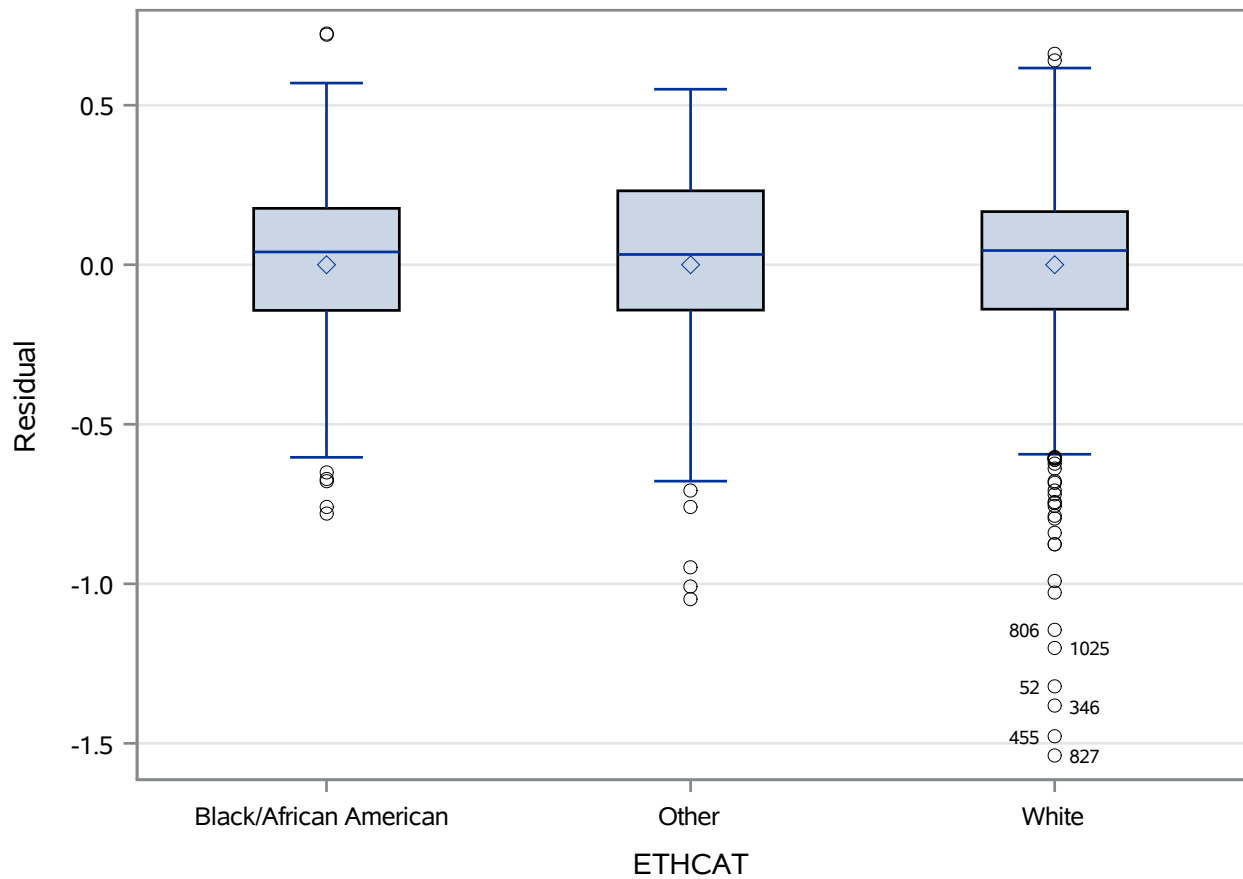


Residual Statistics	
Observations	1378
Minimum	-5.075
Mean	2E-15
Maximum	2.3938
Std Dev	0.9137
Fit Statistics	
Objective	1078.1
AIC	1086.1
AICC	1086.1
BIC	1099.5

Distribution of Conditional Residuals for ATTDEV



Distribution of Conditional Residuals for ATTDEV



Analysis Via the Linear Mixed Model

Distribution of Conditional Residuals for ATTDEV

