Models to obtain residuals after accounting for Donor

The Mixed Procedure
Day=3

Model Information

Data Set	WORK.RNA
Dependent Variable	log10MSRNAresting
Covariance Structure	Diagonal
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Residual

Dimensions

Covariance Parameters	1
Columns in X	7
Columns in Z	0
Subjects	1
Max Obs per Subject	36

Number of Observations

Number of Observations Read	42
Number of Observations Used	36
Number of Observations Not Used	6

Covariance Parameter Estimates

Cov Parm	Estimate
Residual	0.4423

Fit Statistics

-2 Res Log Likelihood	71.4
AIC (Smaller is Better)	73.4
AICC (Smaller is Better)	73.6
BIC (Smaller is Better)	74.8

Solution for Fixed Effects

Effect	Donor	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept		2.0095	0.2715	30	7.40	<.0001	0.05	1.4550	2.5639
Donor	LKA001	0.09761	0.3840	30	0.25	0.8011	0.05	-0.6865	0.8817
Donor	LKA002	-0.7349	0.3840	30	-1.91	0.0652	0.05	-1.5190	0.04926
Donor	LKA004	-1.3276	0.3840	30	-3.46	0.0017	0.05	-2.1117	-0.5434
Donor	LKA006	-1.3667	0.3840	30	-3.56	0.0013	0.05	-2.1509	-0.5826
Donor	LKA009	-0.9167	0.3840	30	-2.39	0.0235	0.05	-1.7009	-0.1326
Donor	LKA012	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
Donor	5	30	5.46	0.0011

Models to obtain residuals after accounting for Donor

The Mixed Procedure
Day=3

Model Information

Data Set	WORK.RNA
Dependent Variable	log10MSRNAtotal
Covariance Structure	Diagonal
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Residual

Dimensions

Covariance Parameters	1
Columns in X	7
Columns in Z	0
Subjects	1
Max Obs per Subject	36

Number of Observations

Number of Observations Read	42
Number of Observations Used	36
Number of Observations Not Used	6

Covariance Parameter Estimates

Cov Parm	Estimate
Residual	0.6426

Fit Statistics

-2 Res Log Likelihood	82.6
AIC (Smaller is Better)	84.6
AICC (Smaller is Better)	84.8
BIC (Smaller is Better)	86.0

Solution for Fixed Effects

Effect	Donor	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept		1.7802	0.3273	30	5.44	<.0001	0.05	1.1118	2.4486
Donor	DARE2208	-0.5028	0.4628	30	-1.09	0.2860	0.05	-1.4480	0.4425
Donor	LKA001	-0.1800	0.4628	30	-0.39	0.7001	0.05	-1.1252	0.7652
Donor	LKA002	-1.0548	0.4628	30	-2.28	0.0300	0.05	-2.0000	-0.1095
Donor	LKA004	-1.5227	0.4628	30	-3.29	0.0026	0.05	-2.4679	-0.5775
Donor	LKA006	-1.2064	0.4628	30	-2.61	0.0141	0.05	-2.1516	-0.2612
Donor	LKA009	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
Donor	5	30	3.45	0.0140

Models to obtain residuals after accounting for Donor

The Mixed Procedure
Day=3

Model Information

Data Set	WORK.RNA
Dependent Variable	log10SNRNAresting
Covariance Structure	Diagonal
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Residual

Dimensions

Covariance Parameters	1
Columns in X	7
Columns in Z	0
Subjects	1
Max Obs per Subject	36

Number of Observations

Number of Observations Read	42
Number of Observations Used	36
Number of Observations Not Used	6

Covariance Parameter Estimates

Cov Parm	Estimate
Residual	0.3714

Fit Statistics

-2 Res Log Likelihood	66.2
AIC (Smaller is Better)	68.2
AICC (Smaller is Better)	68.3
BIC (Smaller is Better)	69.6

Solution for Fixed Effects

Effect	Donor	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept		2.5662	0.2488	30	10.32	<.0001	0.05	2.0581	3.0743
Donor	LKA001	-0.04099	0.3518	30	-0.12	0.9080	0.05	-0.7595	0.6775
Donor	LKA002	-0.3069	0.3518	30	-0.87	0.3900	0.05	-1.0254	0.4117
Donor	LKA004	-1.2216	0.3518	30	-3.47	0.0016	0.05	-1.9402	-0.5031
Donor	LKA006	-0.9810	0.3518	30	-2.79	0.0091	0.05	-1.6995	-0.2624
Donor	LKA009	0.2868	0.3518	30	0.82	0.4214	0.05	-0.4318	1.0053
Donor	LKA012	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
Donor	5	30	5.75	0.0008

Models to obtain residuals after accounting for Donor

The Mixed Procedure
Day=3

Model Information

Data Set	WORK.RNA
Dependent Variable	log10SNRNAtotal
Covariance Structure	Diagonal
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Residual

Dimensions

Covariance Parameters	1
Columns in X	7
Columns in Z	0
Subjects	1
Max Obs per Subject	36

Number of Observations

Number of Observations Read	42
Number of Observations Used	36
Number of Observations Not Used	6

Covariance Parameter Estimates

Cov Parm	Estimate
Residual	0.2048

Fit Statistics

-2 Res Log Likelihood	48.3
AIC (Smaller is Better)	50.3
AICC (Smaller is Better)	50.5
BIC (Smaller is Better)	51.7

Solution for Fixed Effects

Effect	Donor	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept		3.2242	0.1847	30	17.45	<.0001	0.05	2.8470	3.6015
Donor	DARE2208	-0.6425	0.2613	30	-2.46	0.0199	0.05	-1.1761	-0.1090
Donor	LKA001	-0.1076	0.2613	30	-0.41	0.6834	0.05	-0.6412	0.4260
Donor	LKA002	-0.8900	0.2613	30	-3.41	0.0019	0.05	-1.4236	-0.3565
Donor	LKA004	-1.8525	0.2613	30	-7.09	<.0001	0.05	-2.3861	-1.3190
Donor	LKA006	-1.5999	0.2613	30	-6.12	<.0001	0.05	-2.1334	-1.0663
Donor	LKA009	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
Donor	5	30	16.91	<.0001

Models to obtain residuals after accounting for Donor

The Mixed Procedure
Day=3

Model Information

Data Set	WORK.RNA
Dependent Variable	log10USRNAresting
Covariance Structure	Diagonal
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Residual

Dimensions

Covariance Parameters	1
Columns in X	7
Columns in Z	0
Subjects	1
Max Obs per Subject	36

Number of Observations

Number of Observations Read	42
Number of Observations Used	36
Number of Observations Not Used	6

Covariance Parameter Estimates

Cov Parm	Estimate
Residual	0.2499

Fit Statistics

-2 Res Log Likelihood	54.3
AIC (Smaller is Better)	56.3
AICC (Smaller is Better)	56.4
BIC (Smaller is Better)	57.7

Solution for Fixed Effects

Effect	Donor	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept		2.7427	0.2041	30	13.44	<.0001	0.05	2.3259	3.1595
Donor	LKA001	0.4221	0.2886	30	1.46	0.1540	0.05	-0.1673	1.0115
Donor	LKA002	-0.5803	0.2886	30	-2.01	0.0534	0.05	-1.1697	0.009112
Donor	LKA004	-1.3049	0.2886	30	-4.52	<.0001	0.05	-1.8943	-0.7155
Donor	LKA006	-0.9447	0.2886	30	-3.27	0.0027	0.05	-1.5341	-0.3552
Donor	LKA009	0.2819	0.2886	30	0.98	0.3365	0.05	-0.3075	0.8713
Donor	LKA012	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
Donor	5	30	11.70	<.0001

Models to obtain residuals after accounting for Donor

The Mixed Procedure
Day=3

Model Information

Data Set	WORK.RNA
Dependent Variable	log10USRNAtotal
Covariance Structure	Diagonal
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Residual

Dimensions

Covariance Parameters	1
Columns in X	7
Columns in Z	0
Subjects	1
Max Obs per Subject	36

Number of Observations

Number of Observations Read	42
Number of Observations Used	36
Number of Observations Not Used	6

Covariance Parameter Estimates

Cov Parm	Estimate
Residual	0.3152

Fit Statistics

-2 Res Log Likelihood	61.2
AIC (Smaller is Better)	63.2
AICC (Smaller is Better)	63.4
BIC (Smaller is Better)	64.6

Solution for Fixed Effects

Effect	Donor	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper
Intercept		3.1174	0.2292	30	13.60	<.0001	0.05	2.6494	3.5855
Donor	DARE2208	-0.4778	0.3241	30	-1.47	0.1508	0.05	-1.1398	0.1841
Donor	LKA001	-0.4173	0.3241	30	-1.29	0.2077	0.05	-1.0793	0.2446
Donor	LKA002	-0.7203	0.3241	30	-2.22	0.0340	0.05	-1.3822	-0.05831
Donor	LKA004	-1.5940	0.3241	30	-4.92	<.0001	0.05	-2.2559	-0.9320
Donor	LKA006	-1.0980	0.3241	30	-3.39	0.0020	0.05	-1.7600	-0.4360
Donor	LKA009	0	.	.	.	.	.	.	.

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
Donor	5	30	6.00	0.0006

Correlations of residuals after accounting for Donor
Models did not account for Condition

Day=3

Obs	N	IVar	JVar	Spearman Rank Correlation	Spearman 95% CI Lower	Spearman 95% CI Upper	Spearman P-Value
1	36	log10MSRNArestingR	log10SNRNArestingR	0.626	0.374	0.792	4.5E-05
2	36	log10MSRNAtotalR	log10SNRNAtotalR	0.534	0.249	0.734	0.0008
3	36	log10SNRNArestingR	log10USRNArestingR	0.278	-0.055	0.556	0.10
4	36	log10SNRNAtotalR	log10USRNAtotalR	0.193	-0.145	0.490	0.26