

Models to obtain residuals after accounting for Donor

The Mixed Procedure

Day=3

#### Model Information

**Data Set** WORK.RNA  
**Dependent Variable** log10MSRNARestingRatio  
**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** 30

#### Number of Observations

**Number of Observations Read** 35  
**Number of Observations Used** 30  
**Number of Observations Not Used** 5

#### Covariance Parameter Estimates

**Cov Parm** Estimate  
**Residual** 0.4167

#### Fit Statistics

**-2 Res Log Likelihood** 56.8

### Fit Statistics

AIC (Smaller is Better) 58.8

AICC (Smaller is Better) 58.9

BIC (Smaller is Better) 59.9

### Solution for Fixed Effects

Effect	Donor	Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
Intercept		0.6324	0.2887	24	2.19	0.0384	0.05	0.03665	1.2282
Donor	LKA001	0.08411	0.4082	24	0.21	0.8385	0.05	-0.7585	0.9267
Donor	LKA002	0.1746	0.4082	24	0.43	0.6727	0.05	-0.6680	1.0172
Donor	LKA004	-0.2014	0.4082	24	-0.49	0.6262	0.05	-1.0440	0.6411
Donor	LKA006	0.5001	0.4082	24	1.23	0.2325	0.05	-0.3425	1.3427
Donor	LKA009	0.3102	0.4082	24	0.76	0.4547	0.05	-0.5324	1.1528
Donor	LKA012	0	.	.	.	.	.	.	.

### Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
Donor	5	24	0.72	0.6165

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Day=3

**Model Information**

<b>Data Set</b>	WORK.RNA
<b>Dependent Variable</b>	log10MSRNAtotalRatio
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	7
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	30

**Number of Observations**

<b>Number of Observations Read</b>	35
<b>Number of Observations Used</b>	30
<b>Number of Observations Not Used</b>	5

**Covariance Parameter Estimates**

<b>Cov Parm</b>	<b>Estimate</b>
Residual	0.5844

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	64.9
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### Fit Statistics

AIC (Smaller is Better) 66.9

AICC (Smaller is Better) 67.1

BIC (Smaller is Better) 68.1

### Solution for Fixed Effects

Effect	Donor	Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
Intercept		0.9649	0.3419	24	2.82	0.0094	0.05	0.2593	1.6705
Donor	DARE2208	0.1826	0.4835	24	0.38	0.7090	0.05	-0.8153	1.1805
Donor	LKA001	0.02810	0.4835	24	0.06	0.9541	0.05	-0.9698	1.0260
Donor	LKA002	0.2669	0.4835	24	0.55	0.5861	0.05	-0.7310	1.2648
Donor	LKA004	-0.2947	0.4835	24	-0.61	0.5480	0.05	-1.2926	0.7032
Donor	LKA006	0.08493	0.4835	24	0.18	0.8620	0.05	-0.9130	1.0828
Donor	LKA009	0	.	.	.	.	.	.	.

### Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
Donor	5	24	0.32	0.8956

Models to obtain residuals after accounting for Donor

The Mixed Procedure  
Day=3

**Model Information**

**Data Set** WORK.RNA  
**Dependent Variable** log10SNRNRNARestingRatio  
**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** 30

**Number of Observations**

**Number of Observations Read** 35  
**Number of Observations Used** 30  
**Number of Observations Not Used** 5

**Covariance Parameter Estimates**

**Cov Parm** Estimate  
**Residual** 0.3778

**Fit Statistics**

**-2 Res Log Likelihood** 54.4

### Fit Statistics

AIC (Smaller is Better) 56.4

AICC (Smaller is Better) 56.6

BIC (Smaller is Better) 57.6

### Solution for Fixed Effects

Effect	Donor	Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
Intercept		0.8960	0.2749	24	3.26	0.0033	0.05	0.3287	1.4633
Donor	LKA001	-0.4144	0.3887	24	-1.07	0.2971	0.05	-1.2167	0.3880
Donor	LKA002	-0.2826	0.3887	24	-0.73	0.4743	0.05	-1.0849	0.5197
Donor	LKA004	-0.8438	0.3887	24	-2.17	0.0401	0.05	-1.6461	-0.04143
Donor	LKA006	-0.5550	0.3887	24	-1.43	0.1663	0.05	-1.3573	0.2474
Donor	LKA009	0.08268	0.3887	24	0.21	0.8334	0.05	-0.7196	0.8850
Donor	LKA012	0	.	.	.	.	.	.	.

### Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
Donor	5	24	1.60	0.1993

Models to obtain residuals after accounting for Donor

The Mixed Procedure

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**Model Information**

<b>Data Set</b>	WORK.RNA
<b>Dependent Variable</b>	log10SNRNRNAtotalRatio
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	7
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	30

**Number of Observations**

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**Covariance Parameter Estimates**

<b>Cov Parm</b>	<b>Estimate</b>
Residual	0.2216

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	41.6
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### Fit Statistics

AIC (Smaller is Better) 43.6

AICC (Smaller is Better) 43.8

BIC (Smaller is Better) 44.8

### Solution for Fixed Effects

Effect	Donor	Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
Intercept		0.6029	0.2105	24	2.86	0.0086	0.05	0.1684	1.0374
Donor	DARE2208	-0.2338	0.2977	24	-0.79	0.4399	0.05	-0.8483	0.3806
Donor	LKA001	-0.03033	0.2977	24	-0.10	0.9197	0.05	-0.6448	0.5841
Donor	LKA002	-0.6688	0.2977	24	-2.25	0.0341	0.05	-1.2833	-0.05438
Donor	LKA004	-0.5181	0.2977	24	-1.74	0.0946	0.05	-1.1326	0.09636
Donor	LKA006	-0.2149	0.2977	24	-0.72	0.4774	0.05	-0.8294	0.3996
Donor	LKA009	0	.	.	.	.	.	.	.

### Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
Donor	5	24	1.60	0.1977

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The Mixed Procedure  
Day=3

**Model Information**

**Data Set** WORK.RNA  
**Dependent Variable** log10USRNArestingRatio  
**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** 30

**Number of Observations**

**Number of Observations Read** 35  
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**Number of Observations Not Used** 5

**Covariance Parameter Estimates**

**Cov Parm** Estimate  
**Residual** 0.2000

**Fit Statistics**

**-2 Res Log Likelihood** 39.1

### Fit Statistics

AIC (Smaller is Better) 41.1

AICC (Smaller is Better) 41.3

BIC (Smaller is Better) 42.3

### Solution for Fixed Effects

Effect	Donor	Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
Intercept		0.8614	0.2000	24	4.31	0.0002	0.05	0.4486	1.2741
Donor	LKA001	-0.1522	0.2828	24	-0.54	0.5954	0.05	-0.7359	0.4315
Donor	LKA002	0.05565	0.2828	24	0.20	0.8457	0.05	-0.5281	0.6394
Donor	LKA004	-0.5859	0.2828	24	-2.07	0.0492	0.05	-1.1696	-0.00214
Donor	LKA006	-0.03926	0.2828	24	-0.14	0.8908	0.05	-0.6230	0.5445
Donor	LKA009	-0.2297	0.2828	24	-0.81	0.4247	0.05	-0.8134	0.3540
Donor	LKA012	0	.	.	.	.	.	.	.

### Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
Donor	5	24	1.36	0.2723

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<b>Dependent Variable</b>	log10USRNAtotalRatio
<b>Covariance Structure</b>	Diagonal
<b>Estimation Method</b>	REML
<b>Residual Variance Method</b>	Profile
<b>Fixed Effects SE Method</b>	Model-Based
<b>Degrees of Freedom Method</b>	Residual

**Dimensions**

<b>Covariance Parameters</b>	1
<b>Columns in X</b>	7
<b>Columns in Z</b>	0
<b>Subjects</b>	1
<b>Max Obs per Subject</b>	30

**Number of Observations**

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**Covariance Parameter Estimates**

<b>Cov Parm</b>	<b>Estimate</b>
Residual	0.2420

**Fit Statistics**

<b>-2 Res Log Likelihood</b>	43.7
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### Fit Statistics

AIC (Smaller is Better) 45.7

AICC (Smaller is Better) 45.9

BIC (Smaller is Better) 46.9

### Solution for Fixed Effects

Effect	Donor	Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
Intercept		0.8879	0.2200	24	4.04	0.0005	0.05	0.4339	1.3420
Donor	DARE2208	-0.06807	0.3111	24	-0.22	0.8287	0.05	-0.7102	0.5741
Donor	LKA001	-0.1109	0.3111	24	-0.36	0.7247	0.05	-0.7530	0.5313
Donor	LKA002	0.2907	0.3111	24	0.93	0.3595	0.05	-0.3515	0.9329
Donor	LKA004	-0.4208	0.3111	24	-1.35	0.1888	0.05	-1.0630	0.2213
Donor	LKA006	-0.04881	0.3111	24	-0.16	0.8767	0.05	-0.6910	0.5934
Donor	LKA009	0	.	.	.	.	.	.	.

### Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
Donor	5	24	1.07	0.4002

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

Day=3

Obs	N	IVar	JVar	Spearman Rank		Spearman 95%	Spearman 95%	Spearman P-Value
				Correlation		CI Lower	CI Upper	
1	30	log10MSRNARestingRatioR	log10SNRNARestingRatioR	0.575		0.271	0.775	0.0009
2	30	log10MSRNAtotalRatioR	log10SNRNAtotalRatioR	0.506		0.178	0.733	0.0044
3	30	log10SNRNARestingRatioR	log10USRNARestingRatioR	0.067		-0.300	0.417	0.72
2	30	log10SNRNAtotalRatioR	log10USRNAtotalRatioR	-0.041		-0.396	0.324	0.83