Univariate Analysis of Variance

Notes

Output Created		10-JAN-2021 19:47:17
Comments		
Input	Data	D:¥ELEX2020¥2020-2021¥Data¥Input¥Data 6.2 Anava2.sav
	Active Dataset	DataSet3
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	60
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA Berat BY Jenis Tipe /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /POSTHOC=Jenis Tipe(TUKEY LSD) /PLOT=PROFILE(Tipe*Jenis) TYPE=LINE ERRORBAR=NO MEANREFERENCE=YES YAXIS=AUTO /PRINT DESCRIPTIVE HOMOGENEITY /CRITERIA=ALPHA(.01) /DESIGN=Jenis Tipe.
Resources	Processor Time	00:00:00.16
	Elapsed Time	00:00:00.11

Warnings

Post hoc tests are not performed for Jenis Diet because there are fewer than three groups.

Between-Subjects Factors

		Value Label	N
Jenis Diet	1	Tinggi	30
	2	Rendah	30
Tipe Diet	1	Daging sapi	20
	2	Daging babi	20
	3	Sereal	20

Descriptive Statistics

Dependent Variable: Kenaikan Berat Badan

Jenis Diet	Tipe Diet	Mean	Std. Deviation	N
Tinggi	Daging sapi	100.00	15.136	10
	Daging babi	99.50	10.916	10
	Sereal	85.90	15.022	10
	Total	95.13	14.908	30
Rendah	Daging sapi	79.20	13.887	10
	Daging babi	78.70	16.547	10
	Sereal	83.90	15.709	10
	Total	80.60	15.069	30
Total	Daging sapi	89.60	17.712	20
	Daging babi	89.10	17.320	20
	Sereal	84.90	14.994	20
	Total	87.87	16.570	60

Levene's Test of Equality of Error Variances[a]

Dependent Variable: Kenaikan Berat Badan

F	df1	df2	Sig.
.451	5	54	.811

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.[a]

a. Design: Intercept + Jenis + Tipe

Tests of Between-Subjects Effects

Dependent Variable: Kenaikan Berat Badan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	3434.800[a]	3	1144.933	5.023	.004
Intercept	463233.067	1	463233.067	2032.339	.000
Jenis	3168.267	1	3168.267	13.900	.000
Tipe	266.533	2	133.267	.585	.561
Error	12764.133	56	227.931		
Total	479432.000	60			
Corrected Total	16198.933	59			

a. R Squared = .212 (Adjusted R Squared = .170)

Post Hoc Tests

Tipe Diet

Multiple Comparisons

Dependent Variable: Kenaikan Berat Badan

	(I) Tipe Diet	(J) Tipe Diet	Mean Difference (I-J)	Std. Error	Sig.	99% Confidence Interval Lower Bound	
Tukey HSD	Daging sapi	Daging babi	.50	4.774	.994	-14.00	
		Sereal	4.70	4.774	.590	-9.80	
	Daging babi	Daging sapi	-.50	4.774	.994	-15.00	
		Sereal	4.20	4.774	.655	-10.30	
	Sereal	Daging sapi	-4.70	4.774	.590	-19.20	

		Daging babi	-4.20	4.774	.655	-18.70	
LSD	Daging sapi	Daging babi	.50	4.774	.917	-12.23	
		Sereal	4.70	4.774	.329	-8.03	
	Daging babi	Daging sapi	-.50	4.774	.917	-13.23	
		Sereal	4.20	4.774	.383	-8.53	
	Sereal	Daging sapi	-4.70	4.774	.329	-17.43	
		Daging babi	-4.20	4.774	.383	-16.93	

Homogeneous Subsets

Kenaikan Berat Badan

	Tipe Diet	N	Subset 1
Tukey HSD[a,b]	Sereal	20	84.90
	Daging babi	20	89.10
	Daging sapi	20	89.60
	Sig.		.590

Means for groups in homogeneous subsets are displayed.

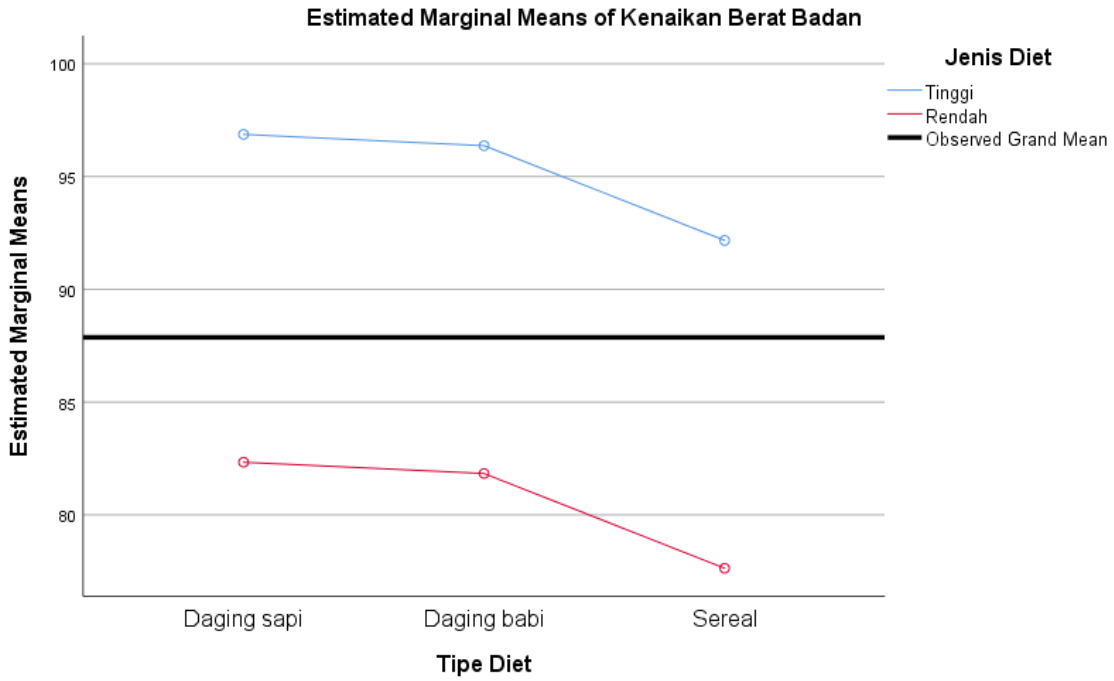
Based on observed means.

The error term is Mean Square(Error) = 227.931.

a. Uses Harmonic Mean Sample Size = 20.000.

b. Alpha = .01.

Profile Plots


Estimated Marginal Means of Kenaikan Berat Badan
Jenis Diet
Tinggi
Rendah
Observed Grand Mean
Estimated Marginal Means
100
95
90
85
80
Daging sapi
Daging babi
Sereal
Tipe Diet