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## A. Induksi periodontitis pada tikus wistar



Gambar 4. Penempatan Tikus dalam Kandang



Gambar 5.. Pengukuran BB tikus



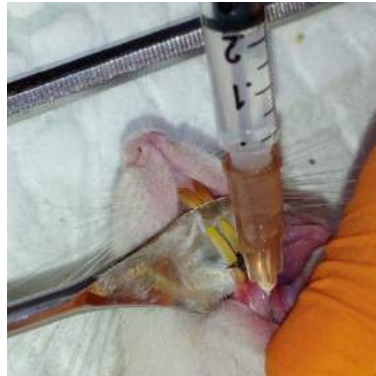
Gambar 6. General Anaestesi pada tikus



Gambar 7. Bakteri yang di induksikan pada gingiva tikus



Gambar 8. Proses dan hasil pemasangan silk ligature pada gigi anterior rahang bawah tikus



Gambar 9. Induksi bakteri propyromonas Gingivalis pada gingiva regio anterior tikus

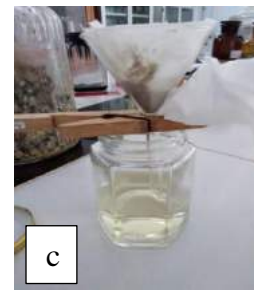
### B. Pembuatan ekstrak timun laut



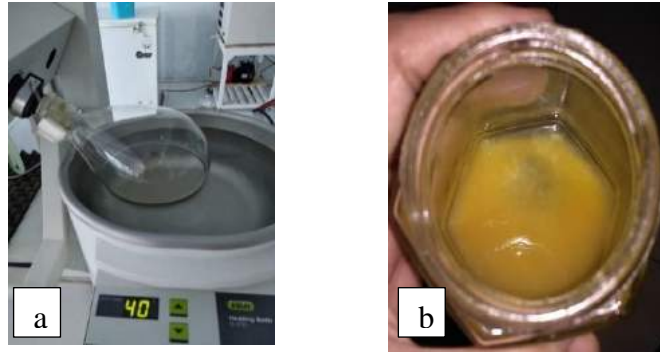
Gambar 10. Timun Laut yang telah dikeringkan



Gambar 11. Timun laut dipotong-potong 3x2 cm lalu ditimbang



Gambar 12. Proses pembuatan ekstrak a. proses maserasi, b dan c proses penyaringan ekstrak dengan menggunakan kertas Whatman.



Gambar 13. a. Proses Evaporator, b. ekstrak timun laut kental yang telah di angin-anginkan

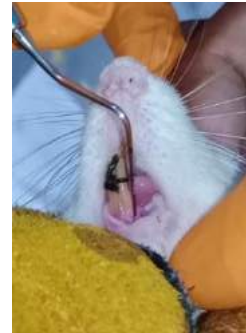
### C. Pelaksanaan Penelitian



Gambar 14. a. Proses anestesi pada paha tikus, b. skeling pada regio anterior



Gambar 15. Proses pemberian ekstrak pada tikus dengan menggunakan sonde yang diinjeksikan secara oral

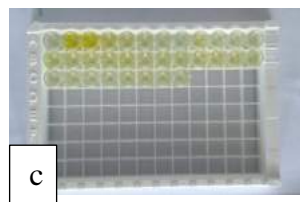


Gambar 16. Periodontitis pada tikus

Gambar 17. pengukuran resesi pada tikus



Gambar 18. Proses sacrifice dan penyimpanan hasil sacrifice pada botol kaca



Gambar 19. Proses kegiatan lab untuk membaca hasil sacrifice dengan Metode Elisa di lab RS UNHAS a. kit reagen IL-1 $\beta$ , b. Proses pewarnaan, c. Hasil pewarnaan, d. Alat Elisa Reader , e. Hasil pewarnaan dimasukan dalam Elisa Reader .





KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI  
UNIVERSITAS HASANUDDIN  
FAKULTAS KEDOKTERAN GIGI  
RUMAH SAKIT GIGI DAN MULUT  
KOMITE ETIK PENELITIAN KESEHATAN  
Sekretariat : Lantai 2, Gedung Lama RSGM Unhas  
Jl. Kande No. 5 Makassar  
Contact Person: drg. Muhammad Ikbal, Sp.Prof/Nur Aedah AR TELP. 08134297101/08114919191



### REKOMENDASI PERSETUJUAN ETIK

Nomor: 0106/PL.09/KEPK FKG-RSGM UNHAS/2020

Tanggal: 30 November 2020

Dengan ini menyatakan bahwa protokol dan dokumen yang berhubungan dengan protokol berikut ini telah mendapatkan persetujuan etik:

No. Protokol	UH 17120390	No Protokol Sponsor	
Peneliti Utama	Drg. Wa Ode Anastasi Muliiani Izat	Sponsor	Pribadi
Judul Peneliti	Efektivitas ekstrak timun laut ( <i>holothuridae</i> sp.) terhadap ekspresi interleukin-1 $\beta$ (il-1 $\beta$ ) pada periodontitis (Penelitian pada Tikus Wistar)		
No. Versi Protokol	1	Tanggal Versi	12 November 2020
No. Versi Protokol		Tanggal Versi	
Tempat Penelitian	STIFA Makassar, RSP UNHAS, Klinik Hewan La Coste		
Dokumen Lain			
Jenis Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard	Masa Berlaku 30 November 2020-30 November 2021	Frekuensi Review Lanjutan
Ketua Komisi Etik Penelitian	Nama: Dr. drg. Marhamah, M.Kes	Tanda Tangan 	Tanggal
Sekretaris Komisi Etik Penelitian	Nama: drg. Muhammad Ikbal, Sp.Prof	Tanda Tangan 	Tanggal

#### Kewajiban peneliti utama:

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum diimplementasikan
- Menyerahkan laporan SAE ke Komisi Etik dalam 24 Jam dan dilengkapi dalam 7 hari dan lapor SUSAR dalam 72 jam setelah peneliti utama menerima laporan.
- Menyerahkan laporan kemajuan (*progress report*) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah.
- Menyerahkan laporan akhir setelah penelitian berakhir.
- Melaporkan penyimpangan dari protokol yang disetujui (*protocol deviation/violation*)
- Mematuhi semua aturan yang berlaku.

MEANS TABLES=Resesi BY Kelompok BY Pengamatan

**Case Processing Summary**

	Included		Cases Excluded		Total	
	N	Percent	N	Percent	N	Percent
Resesi * Kelompok * Pengamatan	36	100.0%	0	0.0%	36	100.0%

/CELLS=MEAN COUNT STDDEV.

**Means**

**Notes**

Output Created	03-DEC-2020 17:33:04	
Comments		
Input	Data	D:\Office\SPSS\Data 1 Residen Perio.sav
	Active Dataset	DataSet25
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	36
Missing Value Handling	Definition of Missing	For each dependent variable in a table, user-defined missing values for the dependent and all grouping variables are treated as missing.
	Cases Used	Cases used for each table have no missing values in any independent variable, and not all dependent variables have missing values.
Syntax	MEANS TABLES=Resesi BY Kelompok BY Pengamatan /CELLS=MEAN COUNT STDDEV.	
Resource	Processor Time	00:00:00.06
s	Elapsed Time	00:00:00.04

[DataSet25] D:\Office\SPSS\Data 1 Residen Perio.sav

**Report**

Resesi

Kelompok	Pengamatan	Mean	N	Std. Deviation
----------	------------	------	---	----------------



Kontrol	H0	.0000	6	.00000
	H3	1.5000	6	.44721
	H7	1.9333	6	.41312
	Total	1.1444	18	.91409
Perlakuan	H0	.0000	6	.00000
	H3	1.5000	6	.44721
	H7	1.5000	6	.44721
	Total	1.0000	18	.80440
Total	H0	.0000	12	.00000
	H3	1.5000	12	.42640
	H7	1.7167	12	.46872
	Total	1.0722	36	.85176

EXAMINE VARIABLES=Resesi BY Kelompok  
/PLOT BOXPLOT STEMLEAF NPLOT  
/COMPARE GROUPS  
/STATISTICS DESCRIPTIVES  
/CINTERVAL 95  
/MISSING LISTWISE  
/NOTOTAL.

#### Explore

#### Notes

Output Created		03-DEC-2020 17:33:41
Comments		
Input	Data	D:\Office\SPSS \Data 1 Residen Perio.sav
	Active Dataset	DataSet25
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	36
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.

Cases Used		Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=Re sesi BY Kelompok /PLOT BOXPLOT STEMLEAF NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:02.27
	Elapsed Time	00:00:03.05

**Kelompok**

**Case Processing Summary**

	Kelompok	Valid		Cases Missing		Total	
		N	Percent	N	Percent	N	Percent
Resesi	Kontrol	18	100.0%	0	0.0%	18	100.0%
	Perlakuan	18	100.0%	0	0.0%	18	100.0%

**Descriptives**

Kelompok	Statistic	Std. Error
----------	-----------	------------

Resesi	Kontrol	Mean		1.1444	.21545
		95% Confidence Interval for Mean	Lower Bound	.6899	
			Upper Bound	1.5990	
		5% Trimmed Mean		1.1327	
		Median		1.5000	
		Variance		.836	
		Std. Deviation		.91409	
		Minimum		.00	
		Maximum		2.50	
		Range		2.50	
	Interquartile Range		2.00		
	Skewness		-.227	.536	
	Kurtosis		-1.534	1.038	
	Perlakuan	Mean		1.0000	.18960
		95% Confidence Interval for Mean	Lower Bound	.6000	
			Upper Bound	1.4000	
		5% Trimmed Mean		1.0000	
		Median		1.0000	
		Variance		.647	
		Std. Deviation		.80440	
Minimum			.00		
Maximum			2.00		
Range			2.00		
Interquartile Range		1.63			
Skewness		-.191	.536		
Kurtosis		-1.560	1.038		

		Tests of Normality					
		Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Kelompok	Statistic	df	Sig.	Statistic	df	Sig.
Resesi	Kontrol	.228	18	.014	.855	18	.010
	Perlakuan	.226	18	.015	.833	18	.005

a. Lilliefors Significance Correction

```
USE ALL.
COMPUTE filter_$=(Kelompok = 1).
VARIABLE LABELS filter_$ 'Kelompok = 1 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.
```

NPAR TESTS  
 /K-W=Resesi BY Pengamatan(1 3)  
 /MISSING ANALYSIS.

**NPar Tests**

Notes		
Output Created		03-DEC-2020 17:35:04
Comments		
Input	Data	D:\Office\SPSS\Data 1 Residen Perio.sav
	Active Dataset	DataSet25
	Filter	Kelompok = 1 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	18
	Missing Value Handling	Definition of Missing
Cases Used		Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /K-W=Resesi BY Pengamatan(1 3) /MISSING ANALYSIS.
Resources	Processor Time	00:00:00.05
	Elapsed Time	00:00:00.04
	Number of Cases Allowed <sup>a</sup>	224694

a. Based on availability of workspace memory.

**Kruskal-Wallis Test**

		Ranks	
	Pengamatan	N	Mean Rank
Resesi	H0	6	3.50
	H3	6	11.00
	H7	6	14.00
	Total	18	

**Test Statistics<sup>a,b</sup>**

Resesi	
Kruskal-Wallis H	12.986
df	2
Asymp. Sig.	.002

- a. Kruskal Wallis Test
- b. Grouping Variable: Pengamatan

DATASET ACTIVATE DataSet25.  
 NPAR TESTS  
 /M-W= Resesi BY Pengamatan(1 2)  
 /MISSING ANALYSIS.

**NPar Tests**

**Notes**

Output Created	03-DEC-2020 17:35:41	
Comments		
Input	Data	D:\Office\SPSS\Data 1 Residen Perio.sav
	Active Dataset	DataSet25
	Filter	Kelompok = 1 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	18
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax	NPAR TESTS /M-W= Resesi BY Pengamatan(1 2) /MISSING ANALYSIS.	
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02
	Number of Cases Allowed <sup>a</sup>	224694

- a. Based on availability of workspace memory.

**Mann-Whitney Test**

		Ranks		
	Pengamatan	N	Mean Rank	Sum of Ranks
Resesi	H0	6	3.50	21.00
	H3	6	9.50	57.00

Total	12		
-------	----	--	--

### Test Statistics<sup>a</sup>

	Resesi
Mann-Whitney U	.000
Wilcoxon W	21.000
Z	-3.095
Asymp. Sig. (2-tailed)	.002
Exact Sig. [2*(1-tailed Sig.)]	.002 <sup>b</sup>

a. Grouping Variable: Pengamatan

b. Not corrected for ties.

DATASET ACTIVATE DataSet25.

NPART TESTS

/M-W= Resesi BY Pengamatan(1 3)

/MISSING ANALYSIS.

### NPar Tests

Notes		
Output Created		03-DEC-2020 17:35:41
Comments		
Input	Data	D:\Office\SPSS\Data 1 Residen Perio.sav
	Active Dataset	DataSet25
	Filter	Kelompok = 1 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPART TESTS /M-W= Resesi BY Pengamatan(1 3) /MISSING ANALYSIS.
Resources	Processor Time	00:00:00.05
	Elapsed Time	00:00:00.03
	Number of Cases Allowed <sup>a</sup>	224694

a. Based on availability of workspace memory.

### Mann-Whitney Test

#### Ranks

	Pengamatan	N	Mean Rank	Sum of Ranks
Resesi	H0	6	3.50	21.00
	H7	6	9.50	57.00
	Total	12		

#### Test Statistics<sup>a</sup>

Resesi	
Mann-Whitney U	.000
Wilcoxon W	21.000
Z	-3.083
Asymp. Sig. (2-tailed)	.002
Exact Sig. [2*(1-tailed Sig.)]	.002 <sup>b</sup>

a. Grouping Variable: Pengamatan

b. Not corrected for ties.

DATASET ACTIVATE DataSet25.

NPAR TESTS

/M-W= Resesi BY Pengamatan(2 3)

/MISSING ANALYSIS.

#### NPar Tests

#### Notes

Output Created	03-DEC-2020 17:35:41	
Comments		
Input	Data	D:\Office\SPSS\Data 1 Residen Perio.sav
	Active Dataset	DataSet25
	Filter	Kelompok = 1 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	18
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax	NPAR TESTS /M-W= Resesi BY Pengamatan(2 3) /MISSING ANALYSIS.	
Resources	Processor Time	00:00:00.05
	Elapsed Time	00:00:00.04
	Number of Cases Allowed <sup>a</sup>	224694

a. Based on availability of workspace memory.

**Mann-Whitney Test**

		Ranks		
	Pengamatan	N	Mean Rank	Sum of Ranks
Resesi	H3	6	5.00	30.00
	H7	6	8.00	48.00
	Total	12		

**Test Statistics<sup>a</sup>**

		Resesi
Mann-Whitney U		9.000
Wilcoxon W		30.000
Z		-1.481
Asymp. Sig. (2-tailed)		.139
Exact Sig. [2*(1-tailed Sig.)]		.180 <sup>b</sup>

a. Grouping Variable: Pengamatan

b. Not corrected for ties.

```
USE ALL.
COMPUTE filter_$=(Kelompok = 2).
VARIABLE LABELS filter_$ 'Kelompok = 2 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.
NPAR TESTS
  /K-W=Resesi BY Pengamatan(1 3)
  /MISSING ANALYSIS.
```

**NPar Tests**

Notes		
Output Created		03-DEC-2020 17:35:55
Comments		
Input	Data	D:\Office\SPSS\Data 1 Residen Perio.sav
	Active Dataset	DataSet25
	Filter	Kelompok = 2 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.



Cases Used		Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax	NPAR TESTS /K-W=Resesi BY Pengamatan(1 3) /MISSING ANALYSIS.	
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02
	Number of Cases Allowed <sup>a</sup>	224694

a. Based on availability of workspace memory.

#### Kruskal-Wallis Test

		Ranks	
	Pengamatan	N	Mean Rank
Resesi	H0	6	3.50
	H3	6	12.50
	H7	6	12.50
	Total	18	

#### Test Statistics<sup>a,b</sup>

		Resesi
Kruskal-Wallis H		12.186
df		2
Asymp. Sig.		.002

a. Kruskal Wallis Test

b. Grouping Variable: Pengamatan

DATASET ACTIVATE DataSet25.  
NPAR TESTS  
/M-W= Resesi BY Pengamatan(1 2)  
/MISSING ANALYSIS.

#### NPar Tests

Notes		
Output Created	03-DEC-2020 17:35:58	
Comments		
Input	Data	D:\Office\SPSS\Data 1 Residen Perio.sav
	Active Dataset	DataSet25
	Filter	Kelompok = 2 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	18

Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= Resesi BY Pengamatan(1 2) /MISSING ANALYSIS.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.01
	Number of Cases Allowed <sup>a</sup>	224694

a. Based on availability of workspace memory.

#### Mann-Whitney Test

		Ranks		
	Pengamatan	N	Mean Rank	Sum of Ranks
Resesi	H0	6	3.50	21.00
	H3	6	9.50	57.00
	Total	12		

#### Test Statistics<sup>a</sup>

	Resesi
Mann-Whitney U	.000
Wilcoxon W	21.000
Z	-3.095
Asymp. Sig. (2-tailed)	.002
Exact Sig. [2*(1-tailed Sig.)]	.002 <sup>b</sup>

a. Grouping Variable: Pengamatan

b. Not corrected for ties.

DATASET ACTIVATE DataSet25.  
 NPAR TESTS  
 /M-W= Resesi BY Pengamatan(1 3)  
 /MISSING ANALYSIS.

#### NPar Tests

Notes		
Output Created		03-DEC-2020 17:35:58
Comments		
Input	Data	D:\Office\SPSS\Data 1 Residen Perio.sav

	Active Dataset	DataSet25
	Filter	Kelompok = 2 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	18
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= Resesi BY Pengamatan(1 3) /MISSING ANALYSIS.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.01
	Number of Cases Allowed <sup>a</sup>	224694

a. Based on availability of workspace memory.

#### Mann-Whitney Test

		Ranks		
	Pengamatan	N	Mean Rank	Sum of Ranks
Resesi	H0	6	3.50	21.00
	H7	6	9.50	57.00
	Total	12		

#### Test Statistics<sup>a</sup>

		Resesi
Mann-Whitney U		.000
Wilcoxon W		21.000
Z		-3.095
Asymp. Sig. (2-tailed)		.002
Exact Sig. [2*(1-tailed Sig.)]		.002 <sup>b</sup>

a. Grouping Variable: Pengamatan

b. Not corrected for ties.

DATASET ACTIVATE DataSet25.  
 NPAR TESTS  
 /M-W= Resesi BY Pengamatan(2 3)  
 /MISSING ANALYSIS.

#### NPar Tests

**Notes**

Output Created		03-DEC-2020 17:35:58
Comments		
Input	Data	D:\Office\SPSS\Data 1 Residen Perio.sav
	Active Dataset	DataSet25
	Filter	Kelompok = 2 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	18
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax	NPAR TESTS /M-W= Resesi BY Pengamatan(2 3) /MISSING ANALYSIS.	
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02
	Number of Cases Allowed <sup>a</sup>	224694

a. Based on availability of workspace memory.

**Mann-Whitney Test**

		Ranks		
	Pengamatan	N	Mean Rank	Sum of Ranks
Resesi	H3	6	6.50	39.00
	H7	6	6.50	39.00
	Total	12		

**Test Statistics<sup>a</sup>**

	Resesi
Mann-Whitney U	18.000

Wilcoxon W	39.000
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 <sup>b</sup>

a. Grouping Variable: Pengamatan

b. Not corrected for ties.

GET

FILE='D:\Office\SPSS\Data 2 Residen Perio.sav'.

DATASET NAME DataSet26 WINDOW=FRONT.

MEANS TABLES=IL\_IB BY Kelompok

/CELLS=MEAN STDDEV.

### Means

Notes			
Output Created		03-DEC-2020 17:36:47	
Comments			
Input	Data	D:\Office\SPSS\Data 2 Residen Perio.sav	
	Active Dataset	DataSet26	
	Filter	<none>	
	Weight	<none>	
	Split File	<none>	
	N of Rows in Working Data File		24
Missing Value Handling	Definition of Missing	For each dependent variable in a table, user-defined missing values for the dependent and all grouping variables are treated as missing.	
	Cases Used	Cases used for each table have no missing values in any independent variable, and not all dependent variables have missing values.	
Syntax		MEANS TABLES=IL_IB BY Kelompok /CELLS=MEAN STDDEV.	
Resources	Processor Time		00:00:00.02
	Elapsed Time		00:00:00.01

[DataSet26] D:\Office\SPSS\Data 2 Residen Perio.sav

### Case Processing Summary

	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
IL_IB * Kelompok	24	100.0%	0	0.0%	24	100.0%

**Report**

IL\_IB

Kelompok	Mean	Std. Deviation
Kontrol	833.6479	181.44645
Perlakuan	856.3929	110.16023
Total	845.0204	147.25651

```
EXAMINE VARIABLES=IL_IB
/PLOT BOXPLOT STEMLEAF NPLOT
/COMPARE GROUPS
/STATISTICS DESCRIPTIVES
/CINTERVAL 95
/MISSING LISTWISE
/NOTOTAL.
```

**Explore**

**Notes**

Output Created	03-DEC-2020 17:37:01	
Comments		
Input	Data	D:\Office\SPSS\Data 2 Residen Perio.sav
	Active Dataset	DataSet26
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	24
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax	EXAMINE VARIABLES=IL_IB /PLOT BOXPLOT STEMLEAF NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.	
Resources	Processor Time	00:00:01.27
	Elapsed Time	00:00:01.50

**Case Processing Summary**

	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
IL_IB	24	100.0%	0	0.0%	24	100.0%

### Descriptives

		Statistic	Std. Error
IL_IB	Mean	845.0204	30.05861
	95% Confidence Interval for Mean	Lower Bound	782.8394
		Upper Bound	907.2013
	5% Trimmed Mean	850.5698	
	Median	864.9684	
	Variance	21684.479	
	Std. Deviation	147.25651	
	Minimum	529.61	
	Maximum	1056.22	
	Range	526.61	
	Interquartile Range	240.90	
	Skewness	-.610	.472
	Kurtosis	-.392	.918

### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
IL_IB	.135	24	.200*	.950	24	.266

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

T-TEST GROUPS=Kelompok(1 2)  
 /MISSING=ANALYSIS  
 /VARIABLES=IL\_IB  
 /CRITERIA=CI(.95).

### T-Test

### Notes

Output Created	03-DEC-2020 17:37:30	
Comments		
Input	Data	D:\Office\SPSS\Data 2 Residen Perio.sav
	Active Dataset	DataSet26
	Filter	<none>

	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	24
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=Kelompok(1 2) /MISSING=ANALYSIS /VARIABLES=IL_IB /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.13

Group Statistics					
	Kelompok	N	Mean	Std. Deviation	Std. Error Mean
IL_IB	Kontrol	12	833.6479	181.44645	52.37908
	Perlakuan	12	856.3929	110.16023	31.80052

Independent Samples Test											
		Levene's Test for Equality of Variances		t-test for Equality of Means						95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper	
IL_IB	Equal variances assumed	4.560	.044	-.371	22	.714	-22.74500	61.27676	-149.82522	104.33522	
	Equal variances not assumed			-.371	18.139	.715	-22.74500	61.27676	-151.41192	105.92192	

MEANS TABLES=IL\_IB BY Kelompok BY Pengamatan  
/CELLS=MEAN STDDEV.

### Means

Notes		
Output Created		03-DEC-2020 17:37:44
Comments		
Input	Data	D:\Office\SPSS\Data 2 Residen Perio.sav
	Active Dataset	DataSet26



	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	24
Missing Value Handling	Definition of Missing	For each dependent variable in a table, user-defined missing values for the dependent and all grouping variables are treated as missing.
	Cases Used	Cases used for each table have no missing values in any independent variable, and not all dependent variables have missing values.
Syntax		MEANS TABLES=IL_IB BY Kelompok BY Pengamatan /CELLS=MEAN STDDEV.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02

#### Case Processing Summary

	Included		Cases Excluded		Total	
	N	Percent	N	Percent	N	Percent
IL_IB * Kelompok * Pengamatan	24	100.0%	0	0.0%	24	100.0%

#### Report

IL_IB			
Kelompok	Pengamatan	Mean	Std. Deviation
Kontrol	H3	807.0537	211.25874
	H7	860.2421	161.56279
	Total	833.6479	181.44645
Perlakuan	H3	939.3257	69.63429
	H7	773.4600	73.08776
	Total	856.3929	110.16023
Total	H3	873.1897	165.11253
	H7	816.8510	127.85473
	Total	845.0204	147.25651

USE ALL.  
COMPUTE filter\_\$(Kelompok = 1).

```

VARIABLE LABELS filter_$ 'Kelompok = 1 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.
EXAMINE VARIABLES=IL_IB
/PLOT BOXPLOT STEMLEAF NPLOT
/COMPARE GROUPS
/STATISTICS DESCRIPTIVES
/CINTERVAL 95
/MISSING LISTWISE
/NOTOTAL.

```

### Explore

Notes		
Output Created		03-DEC-2020 17:38:02
Comments		
Input	Data	D:\Office\SPSS\Data 2 Residen Perio.sav
	Active Dataset	DataSet26
	Filter	Kelompok = 1 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=IL_IB /PLOT BOXPLOT STEMLEAF NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:01.30
	Elapsed Time	00:00:01.42

### Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
IL_IB	12	100.0%	0	0.0%	12	100.0%

### Descriptives

		Statistic	Std. Error	
IL_IB	Mean	833.6479	52.37908	
	95% Confidence Interval for Mean	Lower Bound	718.3623	
		Upper Bound	948.9334	
	5% Trimmed Mean	839.0179		
	Median	886.8135		
	Variance	32922.815		
	Std. Deviation	181.44645		
	Minimum	529.61		
	Maximum	1041.03		
	Range	511.41		
	Interquartile Range	341.39		
	Skewness	-.602	.637	
	Kurtosis	-1.162	1.232	

### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
IL_IB	.172	12	.200*	.898	12	.150

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

```
T-TEST GROUPS=Pengamatan(1 2)
/MISSING=ANALYSIS
/VARIABLES=IL_IB
/CRITERIA=CI(.95).
```

### T-Test

#### Notes

Output Created	03-DEC-2020 17:38:15	
Comments		
Input	Data	D:\Office\SPSS\Data 2 Residen Perio.sav
	Active Dataset	DataSet26
	Filter	Kelompok = 1 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	12

Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=Pengamatan(1 2) /MISSING=ANALYSIS /VARIABLES=IL_IB /CRITERIA=CI(.95).
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.03

**Group Statistics**

	Pengamatan	N	Mean	Std. Deviation	Std. Error Mean
IL_IB	H3	6	807.0537	211.25874	86.24602
	H7	6	860.2421	161.56279	65.95773

**Independent Samples Test**

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
IL_IB	Equal variances assumed	.721	.416	-.490	10	.635	-53.18842	108.57623	-295.11134	188.73450
	Equal variances not assumed			-.490	9.358	.636	-53.18842	108.57623	-297.38028	191.00345

```

USE ALL.
COMPUTE filter_$(Kelompok = 2).
VARIABLE LABELS filter_$(Kelompok = 2 (FILTER)).
VALUE LABELS filter_$(0 'Not Selected' 1 'Selected').
FORMATS filter_$(f1.0).
FILTER BY filter_$.
EXECUTE.
EXAMINE VARIABLES=IL_IB
/PLOT BOXPLOT STEMLEAF NPLOT
/COMPARE GROUPS
/STATISTICS DESCRIPTIVES
/CINTERVAL 95
/MISSING LISTWISE
/NOTOTAL.

```

**Explore**

**Notes**

Output Created	03-DEC-2020 17:38:26	
Comments		
Input	Data	D:\Office\SPSS\Data 2 Residen Perio.sav
	Active Dataset	DataSet26
	Filter	Kelompok = 2 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	12
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax	EXAMINE VARIABLES=IL_IB /PLOT BOXPLOT STEMLEAF NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.	
Resources	Processor Time	00:00:01.20
	Elapsed Time	00:00:01.36

**Case Processing Summary**

	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
IL_IB	12	100.0%	0	0.0%	12	100.0%

**Descriptives**

		Statistic	Std. Error
IL_IB	Mean	856.3929	31.80052
	95% Confidence Interval for Mean	Lower Bound	786.4004
		Upper Bound	926.3853
	5% Trimmed Mean	855.3667	
	Median	853.4233	

Variance	12135.277	
Std. Deviation	110.16023	
Minimum	675.04	
Maximum	1056.22	
Range	381.18	
Interquartile Range	142.26	
Skewness	-.022	.637
Kurtosis	-.057	1.232

#### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
IL_IB	.160	12	.200*	.974	12	.950

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

```
T-TEST GROUPS=Pengamatan(1 2)
/MISSING=ANALYSIS
/VARIABLES=IL_IB
/CRITERIA=CI(.95).
```

#### T-Test

#### Notes

Output Created	03-DEC-2020 17:38:33	
Comments		
Input	Data	D:\Office\SPSS\Data 2 Residen Perio.sav
	Active Dataset	DataSet26
	Filter	Kelompok = 2 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	12
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax	T-TEST GROUPS=Pengamatan(1 2) /MISSING=ANALYSIS /VARIABLES=IL_IB /CRITERIA=CI(.95).	

Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.06

**Group Statistics**

	Pengamatan	N	Mean	Std. Deviation	Std. Error Mean
IL_IB	H3	6	939.3257	69.63429	28.42808
	H7	6	773.4600	73.08776	29.83795

**Independent Samples Test**

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
IL_IB	Equal variances assumed	.107	.751	4.025	10	.002	165.86568	41.21237	74.03881	257.69256
	Equal variances not assumed			4.025	9.977	.002	165.86568	41.21237	74.00968	257.72168

MEANS TABLES=IL\_IB BY Pengamatan BY Kelompok  
/CELLS=MEAN STDDEV.

**Means**

**Notes**

Output Created	03-DEC-2020 17:39:01	
Comments		
Input	Data	D:\Office\SPSS\Data 2 Residen Perio.sav
	Active Dataset	DataSet26
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	24
Missing Value Handling	Definition of Missing	For each dependent variable in a table, user-defined missing values for the dependent and all grouping variables are treated as missing.

Cases Used		Cases used for each table have no missing values in any independent variable, and not all dependent variables have missing values.
Syntax		MEANS TABLES=IL_IB BY Pengamatan BY Kelompok /CELLS=MEAN STDDEV.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02

### Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
IL_IB * Pengamatan * Kelompok	24	100.0%	0	0.0%	24	100.0%

### Report

IL_IB	Pengamatan	Kelompok	Mean	Std. Deviation
H3		Kontrol	807.0	211.25874
			537	
		Perlakuan	939.3	69.63429
			257	
		Total	873.1	165.11253
			897	
H7		Kontrol	860.2	161.56279
			421	
		Perlakuan	773.4	73.08776
			600	
		Total	816.8	127.85473
			510	
Total		Kontrol	833.6	181.44645
			479	
		Perlakuan	856.3	110.16023
			929	



Total	845.0	147.25651
	204	

```

USE ALL.
COMPUTE filter_$=(Pengamatan = 1).
VARIABLE LABELS filter_$ 'Pengamatan = 1 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.
EXAMINE VARIABLES=IL_IB
/PLOT BOXPLOT STEMLEAF NPLOT
/COMPARE GROUPS
/STATISTICS DESCRIPTIVES
/CINTERVAL 95
/MISSING LISTWISE
/NOTOTAL.

```

### Explore

Notes		
Output Created		03-DEC-2020 17:39:16
Comments		
Input	Data	D:\Office\SPSS\Data 2 Residen Perio.sav
	Active Dataset	DataSet26
	Filter	Pengamatan = 1 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=IL_IB /PLOT BOXPLOT STEMLEAF NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:01.36
	Elapsed Time	00:00:01.46

**Case Processing Summary**

	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
IL_IB	12	100.0%	0	0.0%	12	100.0%

**Descriptives**

		Statistic	Std. Error
IL_IB	Mean	873.1897	47.66388
	95% Confidence Interval for Mean	Lower Bound	768.2822
		Upper Bound	978.0972
	5% Trimmed Mean	882.1093	
	Median	908.8064	
	Variance	27262.148	
	Std. Deviation	165.11253	
	Minimum	529.61	
	Maximum	1056.22	
	Range	526.61	
	Interquartile Range	157.02	
	Skewness	-1.354	.637
	Kurtosis	1.106	1.232

**Tests of Normality**

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
IL_IB	.244	12	.046	.836	12	.025

a. Lilliefors Significance Correction

NPAR TESTS  
 /M-W= IL\_IB BY Kelompok(1 2)  
 /MISSING ANALYSIS.

**NPar Tests**

**Notes**

Output Created	03-DEC-2020 17:39:38	
Comments		
Input	Data	D:\Office\SPSS\Data 2 Residen Perio.sav
	Active Dataset	DataSet26
	Filter	Pengamatan = 1 (FILTER)
	Weight	<none>

	Split File	<none>
	N of Rows in Working Data File	12
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each test are based on all cases with valid data for the variable(s) used in that test.
Syntax		NPAR TESTS /M-W= IL_IB BY Kelompok(1 2) /MISSING ANALYSIS.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.01
	Number of Cases Allowed <sup>a</sup>	224694

a. Based on availability of workspace memory.

#### Mann-Whitney Test

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
IL_IB	Kontrol	6	5.67	34.00
	Perlakuan	6	7.33	44.00
	Total	12		

#### Test Statistics<sup>a</sup>

	IL_IB
Mann-Whitney U	13.000
Wilcoxon W	34.000
Z	-.801
Asymp. Sig. (2-tailed)	.423
Exact Sig. [2*(1-tailed Sig.)]	.485 <sup>b</sup>

a. Grouping Variable: Kelompok

b. Not corrected for ties.

```

USE ALL.
COMPUTE filter_$=(Pengamatan = 2).
VARIABLE LABELS filter_$ 'Pengamatan = 2 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.
EXAMINE VARIABLES=IL_IB
/PLOT BOXPLOT STEMLEAF NPLOT
/COMPARE GROUPS
/STATISTICS DESCRIPTIVES
/CINTERVAL 95
/MISSING LISTWISE

```

/NOTOTAL.

### Explore

Notes		
Output Created		03-DEC-2020 17:39:47
Comments		
Input	Data	D:\Office\SPSS\Data 2 Residen Perio.sav
	Active Dataset	DataSet26
	Filter	Pengamatan = 2 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=IL_IB /PLOT BOXPLOT STEMLEAF NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:01.20
	Elapsed Time	00:00:01.32

### Case Processing Summary

	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
IL_IB	12	100.0%	0	0.0%	12	100.0%

### Descriptives

		Statistic	Std. Error	
IL_IB	Mean	816.8510	36.90848	
	95% Confidence Interval for Mean	Lower Bound	735.6160	
		Upper Bound	898.0861	
	5% Trimmed Mean	815.1268		
	Median	831.8737		
	Variance	16346.831		
	Std. Deviation	127.85473		
	Minimum	623.71		
	Maximum	1041.03		
	Range	417.31		
	Interquartile Range	219.43		
	Skewness	.245	.637	
	Kurtosis	-.712	1.232	

#### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
IL_IB	.128	12	.200*	.966	12	.864

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction  
T-TEST GROUPS=Kelompok(1 2)  
/MISSING=ANALYSIS  
/VARIABLES=IL\_IB  
/CRITERIA=CI(.95).

#### Notes

Output Created	03-DEC-2020 17:40:20	
Comments		
Input	Data	D:\Office\SPSS\Data 2 Residen Perio.sav
	Active Dataset	DataSet26
	Filter	Pengamatan = 2 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	12
	Missing Value Handling	Definition of Missing
	Cases Used	Statistics for each analysis are based on the cases with no missing

**Group Statistics**

Kelompok	N	Mean	Std. Deviation	Std. Error Mean
Kontrol	6	860.242	161.5627	65.95773
Perlakuan	6	773.460	73.08776	29.83795

Syntax
--------

variable in the analysis. **T-Test**  
T-TEST GROUPS=Kelompok(1 2)  
/MISSING=ANALYSIS

**Independent Samples Test**

		Levene's Test for Equality of Variances				t-test for Equality of Means		95% Confidence Interval of the Difference		
IL_IB	Equal variances assumed	F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
	Equal variances assumed	3.538	.089	1.19	10	.258	86.78205	72.39286	-74.51929	248.08339
	Equal variances not assumed			1.19	6.964	.270	86.78205	72.39286	-84.57834	258.14244