

LAMPIRAN 1

ALAT DAN BAHAN PENELITIAN



(a)



(b)



(c)



(d)



(e)



(f)

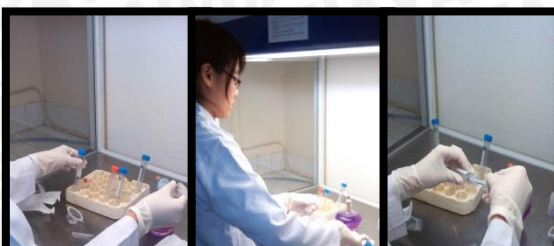


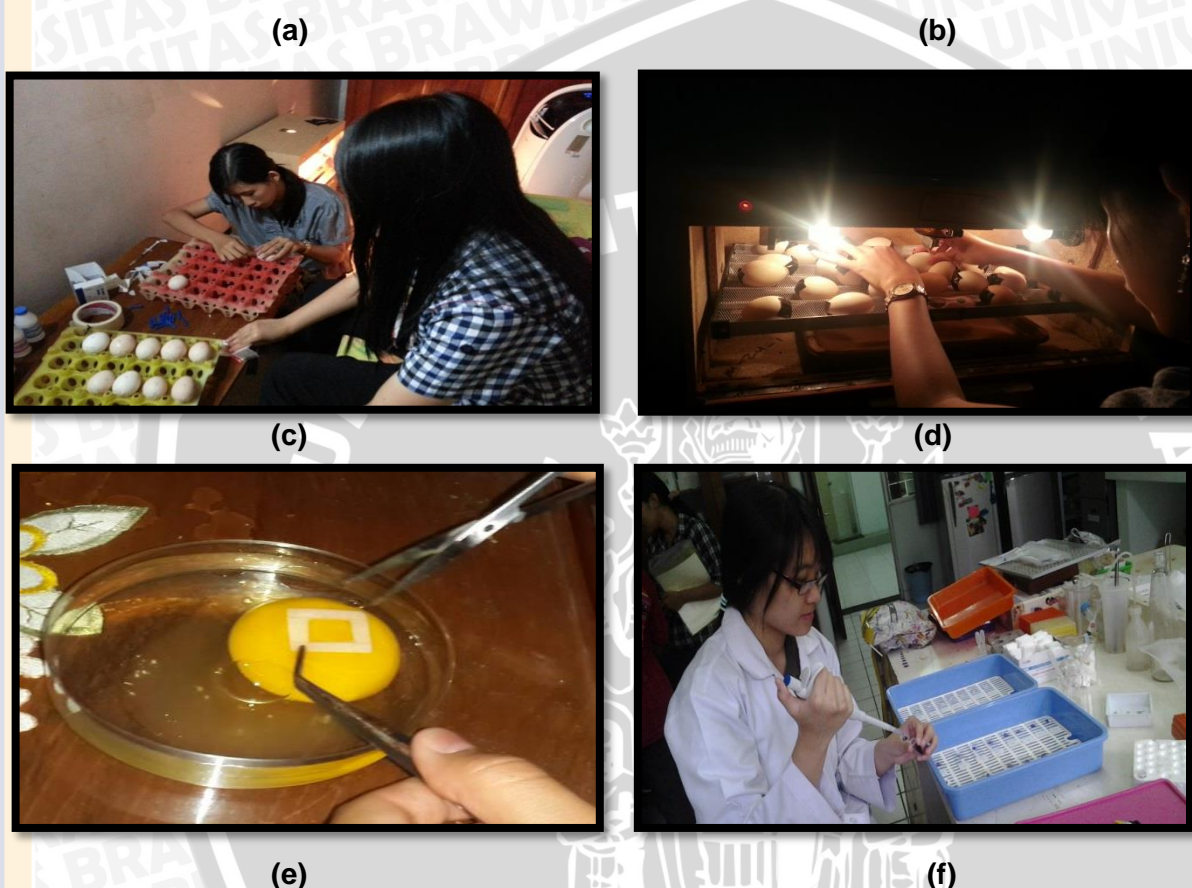
(g)

Gambar 1 (a) alat dan bahan preparasi Genistein; (b) alat dan bahan injeksi; (c) alat bahan imunohistokimia; (d) inkubator; (e) vortex; (f) mikroskop kamera; (g) alat bahan proses mounting

LAMPIRAN 2

DOKUMENTASI KEGIATAN



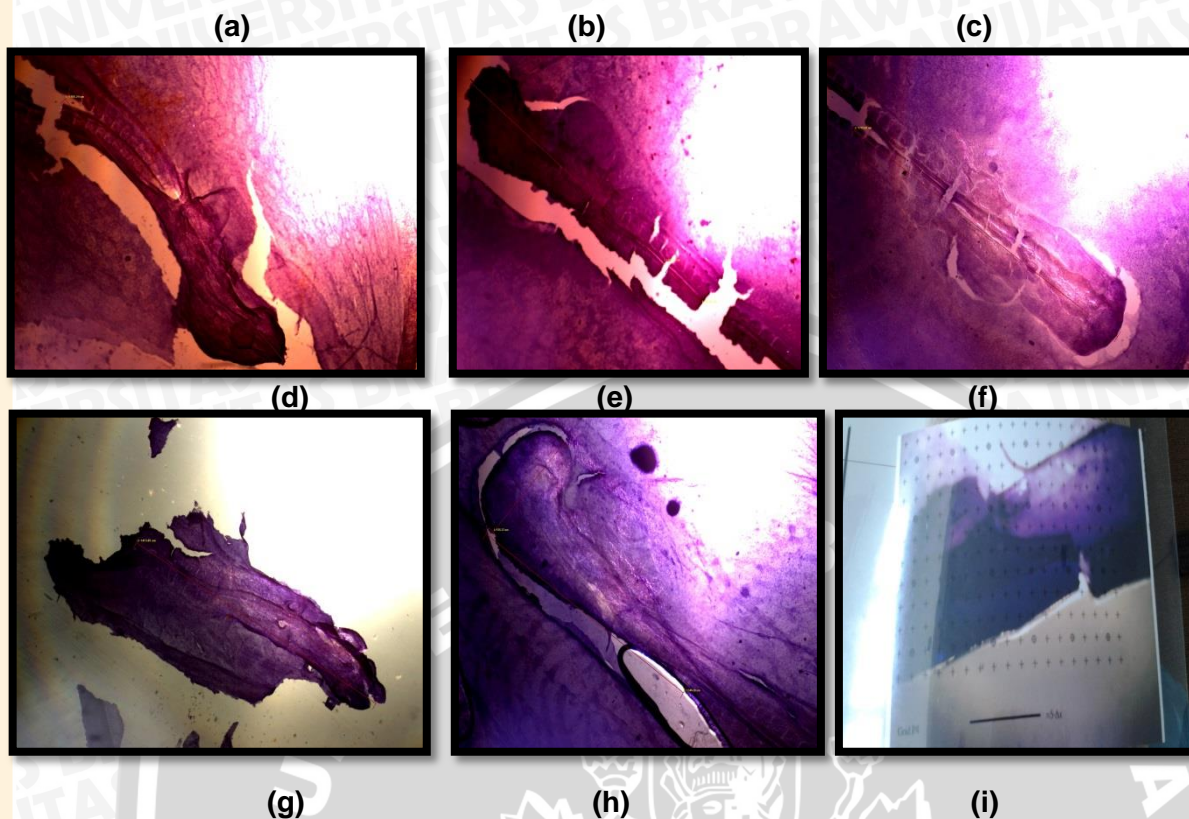


Gambar 2 (a) latihan pengambilan telur; (b)preparasi Genistein; (c)Injeksi telur; (d)memasukkan ke inkubator; (e)Pengambilan embrio dengan kertas saring; (f)Pengecatan imunohistokimia

LAMPIRAN 3

HASIL PENGAMATAN EMBRIO AYAM





Gambar 3 (a) embrio ayam hidup; (b) embrio ayam mati; (c) embrio ayam kontrol dengan hanya ditempel albumin; (d) hasil pengecatan imunohistokimia kontrol; (e) hasil pengecatan imunohistokimia dosis 5 $\mu$ M; (f) hasil pengecatan imunohistokimia dosis 10 $\mu$ M; (g) hasil pengecatan imunohistokimia dosis 20 $\mu$ M; (h) hasil pengecatan imunohistokimia dosis 40 $\mu$ M(warna coklat nampak sedikit); (i) penghitungan titik reaksi (+) dengan kertas sterologi

LAMPIRAN 4

DATA STATISTIK UJI CROSSTABS DENGAN ANALISIS CHI SQUARE PADA SURVIVAL RATE EMBRIO AYAM UMUR 48 JAM

survival rate \* dosis Crosstabulation

		dosis					Total
		kontrol	dosis 5	dosis 10	dosis 20	dosis 40	
survival rate	Count	0	3	5	3	4	15
	mati Expected Count	2,0	3,7	3,4	3,4	2,5	15,0
	% within dosis	0,0%	11,5%	20,8%	12,5%	22,2%	14,2%
	hidup Count	14	23	19	21	14	91
	Expected Count	12,0	22,3	20,6	20,6	15,5	91,0
	% within dosis	100,0%	88,5%	79,2%	87,5%	77,8%	85,8%

	Count	14	26	24	24	18	106
Total	Expected Count	14,0	26,0	24,0	24,0	18,0	106,0
	% within dosis	100,0%	100,0%	100,0%	100,0%	100,0%	100,0%

#### Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4,355 <sup>a</sup>	4	,360
Likelihood Ratio	6,117	4	,191
Linear-by-Linear Association	2,347	1	,126
N of Valid Cases	106		

a. 5 cells (50,0%) have expected count less than 5. The minimum expected count is 1,98.

#### Symmetric Measures

	Value	Asymp. Std. Error <sup>a</sup>	Approx. T <sup>b</sup>	Approx. Sig.
Interval by Interval Pearson's R	-,150	,084	-1,542	,126 <sup>c</sup>
Ordinal by Ordinal Spearman Correlation	-,147	,085	-1,512	,134 <sup>c</sup>
N of Valid Cases	106			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

### LAMPIRAN 5

### DATA STATISTIK UJI ONE-WAY ANOVA PADA JUMLAH SOMIT

#### Descriptives

jumlah somit

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
					kontrol	7		
dosis 5	7	15,29	1,976	,747	13,46	17,11	13	18
dosis 10	6	13,00	2,683	1,095	10,18	15,82	8	15
dosis 20	6	12,67	4,885	1,994	7,54	17,79	7	18
Dosis 40	6	14,50	5,718	2,335	8,50	20,50	4	20
Total	32	14,16	3,620	,640	12,85	15,46	4	20

#### Test of Homogeneity of Variances

jumlah somit

Levene Statistic	df1	df2	Sig.
2,613	4	27	,058

**ANOVA**

jumlah somit

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	35,957	4	8,989	,656	,628
Within Groups	370,262	27	13,713		
Total	406,219	31			

**Multiple Comparisons**

Dependent Variable: jumlah somit

LSD

(I) dosis	(J) dosis	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
kontrol	dosis 5	-,286	1,979	,886	-4,35	3,78
	dosis 10	2,000	2,060	,340	-2,23	6,23
	dosis 20	2,333	2,060	,267	-1,89	6,56
dosis 5	5	,500	2,060	,810	-3,73	4,73
	kontrol	,286	1,979	,886	-3,78	4,35
	dosis 10	2,286	2,060	,277	-1,94	6,51
dosis 5	dosis 20	2,619	2,060	,214	-1,61	6,85
	5	,786	2,060	,706	-3,44	5,01
	kontrol	-2,000	2,060	,340	-6,23	2,23
dosis 10	dosis 5	-2,286	2,060	,277	-6,51	1,94
	dosis 20	,333	2,138	,877	-4,05	4,72
	5	-1,500	2,138	,489	-5,89	2,89
dosis 20	kontrol	-2,333	2,060	,267	-6,56	1,89
	dosis 5	-2,619	2,060	,214	-6,85	1,61
	dosis 10	-,333	2,138	,877	-4,72	4,05
5	5	-1,833	2,138	,399	-6,22	2,55
	kontrol	-,500	2,060	,810	-4,73	3,73
	dosis 5	-,786	2,060	,706	-5,01	3,44
	dosis 10	1,500	2,138	,489	-2,89	5,89
	dosis 20	1,833	2,138	,399	-2,55	6,22



**Tests of Normality**

	dosis	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
jumlah somit	kontrol	,108	7	,200 <sup>*</sup>	,978	7	,949
	dosis 5	,213	7	,200 <sup>*</sup>	,907	7	,376
	dosis 10	,312	6	,069	,793	6	,051
	dosis 20	,252	6	,200 <sup>*</sup>	,860	6	,188
	5	,298	6	,102	,861	6	,194

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

a. Lilliefors Significance Correction

**LAMPIRAN 6**

**DATA STATISTIK UJI CROSSTABS DENGAN ANALISIS CHI SQUARE PADA TAHAPAN PEMBENTUKAN PEMBULUH DARAH**

Perbandingan terbentuknya jantung atau mati pada kelompok kontrol dibandingkan paparan Genistein dosis 5µM.

**Case Processing Summary**

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
sirkulasi * dosis	17	100,0%	0	0,0%	17	100,0%

**sirkulasi \* dosis Crosstabulation**

		dosis		Total
		kontrol	dosis 5	
sirkulasi	Count	0	3	3
	Expected Count	1,2	1,8	3,0
	% within dosis	0,0%	30,0%	17,6%
jantung	Count	7	7	14
	Expected Count	5,8	8,2	14,0
	% within dosis	100,0%	70,0%	82,4%
Total	Count	7	10	17
	Expected Count	7,0	10,0	17,0
	% within dosis	100,0%	100,0%	100,0%



**Chi-Square Tests**

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson <i>Chi-Square</i>	2,550 <sup>a</sup>	1	,110		
Continuity Correction <sup>b</sup>	,903	1	,342		
Likelihood Ratio	3,627	1	,057		
Fisher's Exact Test				,228	,176
Linear-by-Linear Association	2,400	1	,121		
N of Valid Cases	17				

a. 2 cells (50,0%) have expected count less than 5. The minimum expected count is 1,24.

b. Computed only for a 2x2 table

**Symmetric Measures**

	Value	Asymp. Std. Error <sup>a</sup>	Approx. T <sup>b</sup>	Approx. Sig.
Interval by Interval Pearson's R	-,387	,123	-1,627	,125 <sup>c</sup>
Ordinal by Ordinal Spearman Correlation	-,387	,123	-1,627	,125 <sup>c</sup>
N of Valid Cases	17			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Perbandingan terbentuknya jantung atau mati pada kontrol dan Genistein dosis 10µM

**Case Processing Summary**

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
sirkulasi * dosis	20	100,0%	0	0,0%	20	100,0%

**sirkulasi \* dosis Crosstabulation**

		dosis		Total
		kontrol	dosis 10	
sirkulasi	Count	0	5	5
	Expected Count	2,0	3,0	5,0
	% within dosis	0,0%	41,7%	25,0%
jantung	Count	8	7	15
	Expected Count	6,0	9,0	15,0
	% within dosis	100,0%	58,3%	75,0%



Total	Count	8	12	20
	Expected Count	8,0	12,0	20,0
	% within dosis	100,0%	100,0%	100,0%

**Chi-Square Tests**

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson <i>Chi-Square</i>	4,444 <sup>a</sup>	1	,035		
Continuity Correction <sup>b</sup>	2,500	1	,114		
Likelihood Ratio	6,193	1	,013		
Fisher's Exact Test				,055	,051
Linear-by-Linear Association	4,222	1	,040		
N of Valid Cases	20				

a. 2 cells (50,0%) have expected count less than 5. The minimum expected count is 2,00.

b. Computed only for a 2x2 table

**Symmetric Measures**

	Value	Asymp. Std. Error <sup>a</sup>	Approx. T <sup>b</sup>	Approx. Sig.
Interval by Interval Pearson's R	-,471	,119	-2,268	,036 <sup>c</sup>
Ordinal by Ordinal Spearman Correlation	-,471	,119	-2,268	,036 <sup>c</sup>
N of Valid Cases	20			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Perbandingan jantung atau mati, kontrol dibandingkan dengan paparan Genistein dosis 20µM

**Case Processing Summary**

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
sirkulasi * dosis	15	100,0%	0	0,0%	15	100,0%

**sirkulasi \* dosis Crosstabulation**

		dosis		Total
		kontrol	dosis 20	
sirkulasi mati	Count	0	3	3
	Expected Count	1,6	1,4	3,0



	% within dosis	0,0%	42,9%	20,0%
	Count	8	4	12
jantung	Expected Count	6,4	5,6	12,0
	% within dosis	100,0%	57,1%	80,0%
	Count	8	7	15
Total	Expected Count	8,0	7,0	15,0
	% within dosis	100,0%	100,0%	100,0%

**Chi-Square Tests**

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson <i>Chi-Square</i>	4,286 <sup>a</sup>	1	,038		
Continuity Correction <sup>b</sup>	2,026	1	,155		
Likelihood Ratio	5,451	1	,020		
Fisher's Exact Test				,077	,077
Linear-by-Linear Association	4,000	1	,046		
N of Valid Cases	15				

a. 2 cells (50,0%) have expected count less than 5. The minimum expected count is 1,40.

b. Computed only for a 2x2 table

**Symmetric Measures**

	Value	Asymp. Std. Error <sup>a</sup>	Approx. T <sup>b</sup>	Approx. Sig.
Interval by Interval Pearson's R	-,535	,153	-2,280	,040 <sup>c</sup>
Ordinal by Ordinal Spearman Correlation	-,535	,153	-2,280	,040 <sup>c</sup>
N of Valid Cases	15			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Perbandingan terbentuknya jantung atau mati pada kontrol dan genistein dosis 40µM

**Case Processing Summary**

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
sirkulasi * dosis	20	100,0%	0	0,0%	20	100,0%

**sirkulasi \* dosis Crosstabulation**

	dosis		Total
	kontrol	dosis 40	

sirkulasi	Count	0	4	4
	Expected Count	1,6	2,4	4,0
	% within dosis	0,0%	33,3%	20,0%
jantung	Count	8	8	16
	Expected Count	6,4	9,6	16,0
	% within dosis	100,0%	66,7%	80,0%
Total	Count	8	12	20
	Expected Count	8,0	12,0	20,0
	% within dosis	100,0%	100,0%	100,0%

#### Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson <i>Chi-Square</i>	3,333 <sup>a</sup>	1	,068		
Continuity Correction <sup>b</sup>	1,576	1	,209		
Likelihood Ratio	4,740	1	,029		
Fisher's Exact Test				,117	,102
Linear-by-Linear Association	3,167	1	,075		
N of Valid Cases	20				

a. 2 cells (50,0%) have expected count less than 5. The minimum expected count is 1,60.

b. Computed only for a 2x2 table

#### Symmetric Measures

		Value	Asymp. Std. Error <sup>a</sup>	Approx. T <sup>b</sup>	Approx. Sig.
Interval by Interval	Pearson's R	-,408	,114	-1,897	,074 <sup>c</sup>
Ordinal by Ordinal	Spearman Correlation	-,408	,114	-1,897	,074 <sup>c</sup>
N of Valid Cases		20			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

### Two-Sample Kolmogorov-Smirnov Test

	dosis	N
Jantung	kontrol	12
	dosis 5	22
	Total	34

		jantung
Most Extreme Differences	Absolute	,348
	Positive	,348
	Negative	,000
Kolmogorov-Smirnov Z		,971



Asymp. Sig. (2-tailed)	,302
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a. Grouping Variable: dosis

		dosis	N
jantung	kontrol		12
	dosis 10		21
	Total		33

		jantung
Most Extreme Differences	Absolute	,333
	Positive	,333
	Negative	,000
Kolmogorov-Smirnov Z		,921
Asymp. Sig. (2-tailed)		,364

a. Grouping Variable: dosis

		dosis	N
jantung	kontrol		12
	dosis 20		17
	Total		29

		jantung
Most Extreme Differences	Absolute	,373
	Positive	,373
	Negative	,000
Kolmogorov-Smirnov Z		,988
Asymp. Sig. (2-tailed)		,283

a. Grouping Variable: dosis

		dosis	N
jantung	kontrol		12
	dosis 40		16
	Total		28

		jantung
Most Extreme Differences	Absolute	,167
	Positive	,167
	Negative	,000
Kolmogorov-Smirnov Z		,436
Asymp. Sig. (2-tailed)		,991

a. Grouping Variable: dosis

## Crosstabs

### Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
jantung * dosis	88	100,0%	0	0,0%	88	100,0%



jantung \* dosis Crosstabulation

		dosis					Total
		kontrol	dosis 40	dosis 20	dosis 10	dosis 5	
jantung	Count	4	8	12	14	15	53
	Expected Count	7,2	9,6	10,2	12,6	13,3	53,0
	% within dosis	33,3%	50,0%	70,6%	66,7%	68,2%	60,2%
	Count	8	8	5	7	7	35
	Expected Count	4,8	6,4	6,8	8,4	8,8	35,0
	% within dosis	66,7%	50,0%	29,4%	33,3%	31,8%	39,8%
Total	Count	12	16	17	21	22	88
	Expected Count	12,0	16,0	17,0	21,0	22,0	88,0
	% within dosis	100,0%	100,0%	100,0%	100,0%	100,0%	100,0%

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)	Point Probability
Pearson Chi-Square	6,029 <sup>a</sup>	4	,197	,200		
Likelihood Ratio	5,977	4	,201	,218		
Fisher's Exact Test	5,793			,213		
Linear-by-Linear Association	4,168 <sup>b</sup>	1	,041	,048	,025	,008
N of Valid Cases	88					

a. 1 cells (10,0%) have expected count less than 5. The minimum expected count is 4,77.

b. The standardized statistic is -2,042.

Symmetric Measures

		Value	Asymp. Std. Error <sup>a</sup>	Approx. T <sup>b</sup>	Approx. Sig.	Exact Sig.
Interval by Interval	Pearson's R	-,219	,105	-2,080	,040 <sup>c</sup>	,048
Ordinal by Ordinal	Spearman Correlation	-,208	,106	-1,968	,052 <sup>c</sup>	,053
N of Valid Cases		88				

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
tahapan vaskuler * dosis	106	100,0%	0	0,0%	106	100,0%



**tahapan vaskuler \* dosis Crosstabulation**

		dosis					Total	
		kontrol	dosis 40	dosis 20	dosis 10	dosis 5		
tahapan vaskuler	jantung	Count	8	8	5	7	7	35
		Expected Count	4,6	5,9	7,9	7,9	8,6	35,0
		% within dosis	57,1%	44,4%	20,8%	29,2%	26,9%	33,0%
	kapiler	Count	2	2	7	3	4	18
		Expected Count	2,4	3,1	4,1	4,1	4,4	18,0
		% within dosis	14,3%	11,1%	29,2%	12,5%	15,4%	17,0%
	mati	Count	4	8	12	14	15	53
		Expected Count	7,0	9,0	12,0	12,0	13,0	53,0
		% within dosis	28,6%	44,4%	50,0%	58,3%	57,7%	50,0%
Total		Count	14	18	24	24	26	106
		Expected Count	14,0	18,0	24,0	24,0	26,0	106,0
		% within dosis	100,0%	100,0%	100,0%	100,0%	100,0%	100,0%

**Chi-Square Tests**

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)	Point Probability
Pearson Chi-Square	9,543 <sup>a</sup>	8	,299	,305		
Likelihood Ratio	9,135	8	,331	,380		
Fisher's Exact Test	8,802			,353		
Linear-by-Linear Association	4,287 <sup>b</sup>	1	,038	,041	,021	,004
N of Valid Cases	106					

a. 6 cells (40,0%) have expected count less than 5. The minimum expected count is 2,38.

b. The standardized statistic is 2,070.

**Symmetric Measures**

		Value	Asymp. Std. Error <sup>a</sup>	Approx. T <sup>b</sup>	Approx. Sig.	Exact Sig.
Interval by Interval	Pearson's R	,202	,097	2,104	,038 <sup>c</sup>	,041
Ordinal by Ordinal	Spearman Correlation	,192	,097	1,991	,049 <sup>c</sup>	. <sup>d</sup>
N of Valid Cases		106				

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

d. Cannot be computed because there is insufficient memory.

**LAMPIRAN 7**  
**DATA STATISTIK UJI ONE-WAY ANOVA PADA PERSENTASE AREA EKSPRESI**  
**VEGFR-2**

**Descriptives**

persentase area

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
kontrol	7	61,7943	8,46365	3,19896	53,9667	69,6219	47,76	68,90
dosis 5	7	35,3743	7,91756	2,99256	28,0518	42,6968	26,22	47,61
dosis 10	7	30,3186	11,75094	4,44144	19,4508	41,1864	10,92	44,82
dosis 20	6	25,0633	3,31768	1,35444	21,5816	28,5450	21,42	31,11
dosis 40	6	28,0017	8,43769	3,44467	19,1468	36,8565	16,12	38,09
Total	33	36,6909	15,82848	2,75538	31,0784	42,3034	10,92	68,90

**Test of Homogeneity of Variances**

persentase area

Levene Statistic	df1	df2	Sig.
2,489	4	28	,066

**ANOVA**

persentase area

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5971,859	4	1492,965	20,437	,000
Within Groups	2045,443	28	73,052		
Total	8017,302	32			

**Post Hoc Tests**  
**Homogeneous Subsets**



persentase area

Tukey B<sup>a,b</sup>

dosis	N	Subset for alpha = 0.05	
		1	2
dosis 20	6	25,0633	
dosis 40	6	28,0017	
dosis 10	7	30,3186	
dosis 5	7	35,3743	
kontrol	7		61,7943

Means for groups in homogeneous subsets are displayed.

- a. Uses Harmonic Mean Sample Size = 6,563.
- b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Tests of Normality

	dosis	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
persentase area	kontrol	,248	7	,200*	,826	7	,073
	dosis 5	,193	7	,200*	,917	7	,450
	dosis 10	,173	7	,200*	,967	7	,879
	dosis 20	,268	6	,200*	,894	6	,341
	dosis 40	,160	6	,200*	,957	6	,795

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

a. Lilliefors Significance Correction

Descriptives

persentase area

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
dosis 20	6	25,0633	3,31768	1,35444	21,5816	28,5450	21,42	31,11
dosis 40	6	28,0017	8,43769	3,44467	19,1468	36,8565	16,12	38,09
Total	12	26,5325	6,30231	1,81932	22,5282	30,5368	16,12	38,09

Test of Homogeneity of Variances

persentase area

Levene Statistic	df1	df2	Sig.
8,024	1	10	,018

ANOVA

persentase area

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	25,901	1	25,901	,630	,446
Within Groups	411,009	10	41,101		
Total	436,910	11			

**Kruskal-Wallis Test**

Ranks			
	dosis	N	Mean Rank
persentase area	dosis 20	6	5,83
	dosis 40	6	7,17
	Total	12	

Test Statistics <sup>a,b</sup>	
	persentase area
Chi-Square	,410
df	1
Asymp. Sig.	,522

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

