

LAMPIRAN 1

PERHITUNGAN DOSIS

Sisplatin

Dosis sisplatin untuk tikus = 7 mg/kg

$$\begin{aligned}\text{Dosis absolut pada tikut (BB } \pm 200 \text{ g)} &= 0.2 \times 7 \\ &= 1.4 \text{ mg}\end{aligned}$$

$$\begin{aligned}\text{Dosis mencit (BB } \pm 20 \text{ g)} &= 1.4 \times 0.14 \text{ (faktor konversi dari tikus ke mencit)} \\ &= 0.196 \text{ mg}\end{aligned}$$

Berat badan rata-rata mencit = 27.60 gram

$$\text{Untuk mencit 27.60 g, sisplatin yang diperlukan} = \frac{27.60}{20} \times 0.196 = 0.27048 \text{ mg}$$

Sediaan: *Cisplatin* DBL 25mg/50ml

Jadi, dalam 1 ml sediaan terdapat 0.5 mg sisplatin

$$\text{Volume yang disuntikkan} = \frac{0.27048}{0.5} \times 1 \text{ ml} = 0.541 \text{ ml}$$

Pasta Tomat

Berdasarkan jurnal “*Protective role of lycopene on cisplatin-induced changes in sperm characteristics, testicular damage and oxidative stress in rats*”, disebutkan bahwa dosis 4 mg/kg likopen untuk tikus dewasa *Sprague-Dawley* mampu memberi efek protektif terhadap spermitoksisitas yang diinduksi oleh sisplatin (Atessahin *et al*, 2006).

Dosis likopen tikus = 4 mg/kg

$$\begin{aligned}\text{Dosis absolut pada tikut (BB } \pm 200 \text{ g)} &= 0.2 \times 4 \\ &= 0.8 \text{ mg}\end{aligned}$$

$$\begin{aligned}\text{Dosis mencit (BB } \pm 20 \text{ g)} &= 0.8 \times 0.14 \text{ (faktor konversi dari tikus ke mencit)} \\ &= 0.112 \text{ mg}\end{aligned}$$

(Paget and Barnes, 1964)

Berat badan rata-rata mencit = 27.60 gram

Untuk mencit 27.60 g, likopen yang diperlukan = $\frac{27.60}{20} \times 0.112 = 0.155$ mg

(dijadikan dosis 2).

Sediaan likopen yang digunakan berupa pasta tomat Hunt's. Menurut data USDA tahun 2006 dalam 100 gram pasta tomat terdapat 28.8 mg likopen.

Jadi, dalam 1 gram pasta tomat terdapat 0.288 mg likopen.

Pasta Tomat Dosis 1 :

$$\frac{0.0775}{0.288} \times 1 \text{ gram} = 0.269 \text{ gram pasta tomat}$$

Pasta Tomat Dosis 2 :

$$\frac{0.155}{0.288} \times 1 \text{ gram} = 0.538 \text{ gram pasta tomat}$$

Pasta Tomat Dosis 3 :

$$\frac{0.31}{0.288} \times 1 \text{ gram} = 1.076 \text{ gram pasta tomat}$$

LAMPIRAN 2

ANALISIS DATA

KECEPATAN GERAK SPERMATOZOA

Oneway

Descriptives

Hasil								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kontrol	6	.028034	.0097504	.0039806	.017801	.038266	.0194	.0460
PT 1	6	.040176	.0064936	.0026510	.033361	.046990	.0316	.0514
PT 2	6	.042980	.0131864	.0053833	.029141	.056818	.0313	.0639
PT 3	6	.060902	.0114011	.0046545	.048937	.072867	.0460	.0765
Total	24	.043023	.0154922	.0031623	.036481	.049564	.0194	.0765

Test of Homogeneity of Variances

Hasil				
Levene Statistic	df1	df2	Sig.	
1.337	3	20	.290	

ANOVA

Hasil					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.003	3	.001	10.019	.000
Within Groups	.002	20	.000		
Total	.006	23			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Hasil
Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol	PT 1	-.0121419	.0060629	.220	-.029112	.004828
	PT 2	-.0149459	.0060629	.097	-.031915	.002024
	PT 3	-.0328683(*)	.0060629	.000	-.049838	-.015899
PT 1	PT 2	-.0028040	.0060629	.966	-.019774	.014166
	PT 3	-.0207264(*)	.0060629	.013	-.037696	-.003757
	Kontrol	.0121419	.0060629	.220	-.004828	.029112
PT 2	PT 1	.0028040	.0060629	.966	-.014166	.019774
	PT 3	-.0179224(*)	.0060629	.036	-.034892	-.000953
	Kontrol	.0149459	.0060629	.097	-.002024	.031915
PT 3	PT 1	.0207264(*)	.0060629	.013	.003757	.037696
	PT 2	.0179224(*)	.0060629	.036	.000953	.034892
	Kontrol	.0328683(*)	.0060629	.000	.015899	.049838

* The mean difference is significant at the .05 level.

Homogenous Subsets

Hasil

Tukey HSD

Kelompok	Subset for alpha = .05		
	N	1	2
Kontrol	6	.028034	
PT 1	6	.040176	
PT 2	6	.042980	
PT 3	6		.060902
Sig.		.097	1.000

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

JUMLAH SPERMATOZOA

One way

Descriptives

Hasil								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kontrol	6	1481250	654776.202	267311.26	794104.517	2168395.48	930000.0	2437500
PT 1	6	2788750	794425.500	324322.85	1955051.567	3622448.43	1702500	3840000
PT 2	6	2853750	249367.951	101804.04	2592054.385	3115445.62	2565000	3262500
PT 3	6	4030000	976114.747	398497.18	3005630.395	5054369.60	3262500	5910000
Total	24	2788437.5	1140195.162	232741.36	2306975.309	3269899.69	930000.0	5910000

Test of Homogeneity of Variances

Hasil				
Levene Statistic	df1	df2	Sig.	
1.674	3	20	.204	

ANOVA

Hasil					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.0E+013	3	6.509E+012	12.548	.000
Within Groups	1.0E+0.13	20	5.187E+011		
Total	3.0E+013	23			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Hasil
Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol	PT 1	-1307500.0(*)	415815.2	.024	-2471340.44	-143659.5636
	PT 2	-1372500.00(*)	415815.2	.017	-2536340.44	-208659.5636
	PT 3	-2548750.0(*)	415815.2	.000	-3712590.44	-1384909.5636
PT 1	Kontrol	1307500.00(*)	415815.2	.024	143659.564	2471340.4364
	PT 2	-65000.000	415815.2	.999	-1228840.44	1098840.4364
	PT 3	-1241250.0 (*)	415815.2	.034	-2405090.44	-77409.5636
PT 2	Kontrol	1372500.00(*)	415815.2	.017	208659.5636	2536340.4364
	PT 1	65000.000	415815.2	.999	-1098840.44	1228840.4364
	PT 3	-1176250.00(*)	415815.2	.047	-2340090.44	-12409.5636
PT 3	Kontrol	2548750.00(*)	415815.2	.000	1384909.5636	3712590.4364
	PT 1	1241250.00(*)	415815.2	.034	77409.5636	2405090.4364
	PT 2	1176250.00(*)	415815.2	.047	12409.5636	2340090.4364

* The mean difference is significant at the .05 level.

Homogeneous Subsets

Hasil

Tukey HSD

Kelompok	N	Subset for alpha = .05		
		1	2	3
Kontrol (-)	6	1481250		
PT 1	6		2788750	
PT 2	6		2853750	
PT 3	6			4030000
Sig.		1.000	.999	1.000

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

VIABILITAS SPERMATOZOA

One way

Descriptives

Hasil

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Kontrol	6	4.2500	1.86414	.76103	2.2937	6.2063	2.50	7.50
PT 1	6	7.5000	2.07364	.84656	5.3238	9.6762	4.50	10.50
PT 2	6	7.6667	2.35938	.96321	5.1907	10.1427	3.50	10.00
PT 3	6	13.3333	2.69568	1.10050	10.5044	16.1623	10.00	17.50
Total	24	8.1875	3.95302	.80691	6.5183	9.8567	2.50	17.50

Test of Homogeneity of Variances

Hasil

Levene Statistic	df1	df2	Sig.
.452	3	20	.719

ANOVA

Hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	256.365	3	85.455	16.586	.000
Within Groups	103.042	20	5.152		
Total	359.406	23			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Hasil
Tukey HSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol	PT 1	-3.25000	1.31048	.094	-6.9180	.4180
	PT 2	-3.41667	1.31048	.073	-7.0846	.2513
	PT 3	-9.08333(*)	1.31048	.000	-12.7513	-5.4154
PT 1	PT 2	-.16667	1.31048	.999	-3.8346	3.5013
	PT 3	-5.83333(*)	1.31048	.001	-9.5013	-2.1654
	Kontrol	3.25000	1.31048	.094	-.4180	6.9180
PT 2	PT 1	.16667	1.31048	.999	-3.5013	3.8346
	PT 3	-5.66667(*)	1.31048	.002	-9.3346	-1.9987
	Kontrol	3.41667	1.31048	.073	-.2513	7.0846
PT 3	PT 1	5.83333(*)	1.31048	.001	2.1654	9.5013
	PT 2	5.66667(*)	1.31048	.002	1.9987	9.3346
	Kontrol	9.08333(*)	1.31048	.000	5.4154	12.7513

* The mean difference is significant at the .05 level.

Homogeneous Subsets

Hasil

Tukey HSD

Kelompok	N	Subset for alpha = .05	
		1	2
Kontrol	6	4.2500	
PT 1	6	7.5000	
PT 2	6	7.6667	
PT 3	6		13.3333
Sig.		.073	1.000

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6.000.

LAMPIRAN 3

FOTO-FOTO PENELITIAN

Bahan

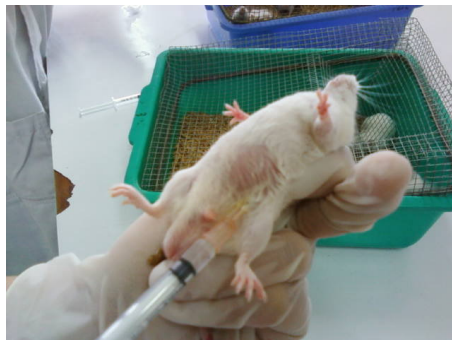
1. Pasta Tomat



2. Cisplatin



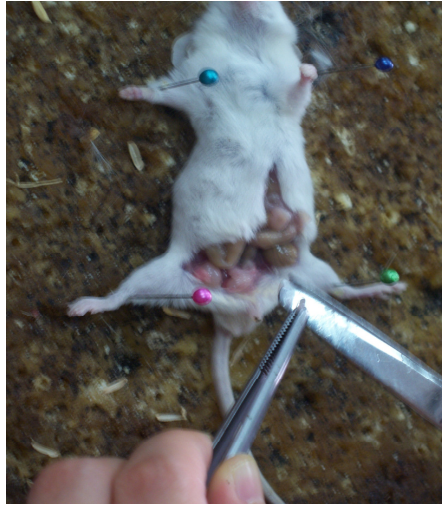
Injeksi Cisplatin Intraperitoneal pada Hewan Coba



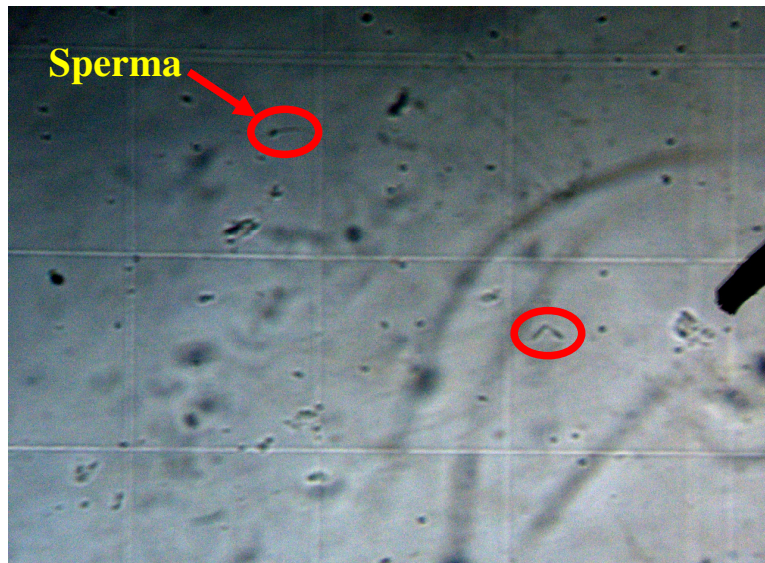
Pemberian Akuades/Pasta Tomat pada Hewan Coba



Pengambilan Data



Kecepatan Gerak dan Jumlah Spermatozoa



Viabilitas Spermatozoa



RIWAYAT HIDUP

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SLTP Don Bosco. Sorong 2001

SMU Santo Aloysius, Bandung 2004

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angkatan 2004