

EVALUASI PRAKTIKUM BIOSTATISTIK

(PART 2)

DOSEN PENGAMPU : SHOLAIKHAH SULISTYONINGTYAS

1. Kerjakan Soal Sesuai dengan analisi yang dibutuhkan
2. Baca dengan teliti setiap Pertanyaan yang ada
3. Kerjakan Sesuai Perintah dengan Aplikasi SPSS
4. Setelah selesai mengolah data , berilah penjelasan mengenai hasil output yang diperoleh
5. **Jika hanya menampilkan output tanpa menyampaikn hasilnya, maka mendapatkan nilai 0**

SOAL

Hasil Pre		Hasil post	
Total	Kode	Total	Kode
60	2	44	1
52	1	49	1
76	2	46	1
69	2	44	1
74	2	43	1
53	1	48	1
61	2	45	1
89	2	78	2
74	2	52	1
72	2	45	1
83	2	50	1
70	2	44	1
66	2	43	1

78	2	78	2
64	2	52	1
79	2	79	2
77	2	77	2
64	2	52	1
67	2	45	1
62	2	52	1
51	1	51	1
77	2	77	2
70	2	43	1
79	2	79	2
82	2	82	2
71	2	50	1
79	2	52	1
54	2	47	1
71	2	71	2

Kode

1 : Tidak Cemas

2.: cemas

NAMA : MURSALIIN

NIM : 1910106054

KELAS : B1

Pertanyaan :

1. Bagaimanakah pengaruh penyuluhan terhadap kecemasan remaja dalam menghadapi masa pubertas?? Uji apakah yang tepat untuk mengetahui pengaruh atau uji beda pada kasus diatas?

Melakukan Uji Normalitas

One-Sample Kolmogorov-Smirnov Test

		Unstandardized Residual
N		29
Normal Parameters ^{a,b}	Mean	.0000000
	Std. Deviation	11.51850778
Most Extreme Differences	Absolute	.136
	Positive	.136
	Negative	-.133
Test Statistic		.136
Asymp. Sig. (2-tailed)		.181 ^c

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

Dari table tersebut didapatkan hasil 0,181 artinya Normal karena nilai signifikansi lebih dari 0,05 maka nilai residual berdistribusi normal

Melakukab Uji T-Test

Group Statistics

	kode2	N	Mean	Std. Deviation	Std. Error Mean
PRE	1	21	66.29	8.962	1.956
	2	8	79.00	5.099	1.803
POST	1	21	47.48	3.516	.767
	2	8	77.63	3.114	1.101

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
PRE	Equal variances assumed	4.066	.054	-3.760	27	.001	-12.714	3.381	-19.652	-5.776
	Equal variances not assumed			-4.780	22.340	.000	-12.714	2.660	-18.225	-7.203
POST	Equal variances assumed	3.041	.093	-21.241	27	.000	-30.149	1.419	-33.061	-27.237
	Equal variances not assumed			-22.467	14.272	.000	-30.149	1.342	-33.022	-27.276

Dari hasil table tersebut ada pengaruh sebelum dan sesudah melakukan penyuluhan dikarenakan sig 2 tailed <0,05

2. Data diatas dinyatakan tidak berdistribusi normal maka uji apa yang digunakan untuk mengetahui adakah pengaruh dari ke2 variabel tersebut??

Ranks

		N	Mean Rank	Sum of Ranks
POST - PRE	Negative Ranks	21 ^a	11.00	231.00
	Positive Ranks	0 ^b	.00	.00
	Ties	8 ^c		
	Total	29		

- a. POST < PRE
- b. POST > PRE
- c. POST = PRE

Test Statistics^a

POST - PRE	
Z	-4.017 ^b
Asymp. Sig. (2-tailed)	.000

- a. Wilcoxon Signed Ranks Test
- b. Based on positive ranks.

Dari table tersebut didapatkan hasil sig 2tailed <0,05 ada pengaruh penyuluhan terhadap kecemasan

PERTANYAAN

	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27
R1	1	4	2	1	1	2	1	1	1	1	2	4	4	4	3	1	4	2	1	4	2	2	3	4	3	1	1
R2	1	4	4	3	3	3	1	1	1	1	4	1	1	1	1	4	1	1	2	1	4	1	1	1	1	1	4
R3	4	3	3	4	4	1	2	3	3	4	4	1	2	2	4	1	4	3	4	2	3	3	4	1	1	2	4

R4	1	1	1	4	1	2	4	4	3	3	4	1	1	2	4	1	2	4	3	4	2	4	4	3	1	3	2
R5	1	4	3	4	3	2	4	1	4	4	3	1	1	2	3	4	4	3	4	1	2	1	4	1	2	4	4
R6	4	1	1	1	1	1	1	3	2	1	1	2	3	1	4	3	2	2	2	3	3	3	2	1	1	2	2
R7	4	1	4	4	4	2	4	2	3	1	1	2	2	2	3	2	1	1	3	4	1	1	1	1	2	4	1
R8	3	4	4	4	3	3	2	3	4	4	4	4	4	3	3	4	1	4	4	4	4	4	4	2	2	3	1
R9	1	1	4	4	4	4	3	3	4	3	3	1	1	2	3	2	3	3	3	2	3	3	3	3	2	2	4
R10	1	1	4	4	4	2	1	4	3	4	4	1	1	1	3	1	3	4	4	1	3	4	4	3	2	1	4
R11	3	4	3	4	4	4	1	4	4	4	3	1	2	2	1	2	4	3	4	4	4	3	1	4	2	4	4
R12	4	3	4	4	4	2	2	4	4	4	4	1	4	2	1	3	1	1	1	1	3	2	2	2	4	1	2
R13	2	4	4	4	4	1	2	3	3	4	4	1	2	2	2	2	3	3	1	2	1	2	2	1	4	2	1
R14	2	2	4	4	4	3	4	4	3	4	4	4	4	1	4	1	4	1	1	4	4	1	1	1	4	1	4
R15	4	3	2	1	3	3	2	1	2	1	3	2	3	1	1	2	1	3	3	4	1	3	3	3	4	2	3
R16	2	4	4	4	4	2	3	2	3	3	4	2	2	2	4	1	3	4	3	2	4	3	3	3	3	3	2
R17	2	4	4	4	4	2	3	3	3	3	3	1	2	2	4	1	3	4	3	2	4	3	3	3	3	2	2
R18	2	3	4	3	3	2	1	3	2	2	2	3	2	4	2	3	2	3	2	2	2	1	3	2	2	3	1
R19	1	1	3	3	2	4	4	2	1	2	3	1	4	3	1	1	1	3	1	3	2	3	4	4	4	4	2
R20	2	1	3	3	2	4	4	2	1	2	3	1	3	3	1	1	2	3	2	3	3	1	1	2	4	3	2
R21	1	1	4	1	1	4	2	1	1	1	3	1	1	1	1	1	1	3	1	2	3	1	4	4	2	4	1
R22	1	4	4	4	4	4	1	2	3	4	3	1	4	2	2	1	2	3	2	4	4	3	4	4	3	2	2
R23	2	4	2	4	4	4	4	1	2	2	4	1	2	3	3	1	1	2	2	4	2	2	3	3	3	4	1
R24	1	4	4	4	4	3	2	4	4	4	3	4	2	1	4	4	1	1	3	2	3	3	2	3	2	4	3
R25	4	4	3	2	2	3	4	4	4	3	3	1	3	3	4	4	4	4	1	2	4	3	4	3	1	4	1
R26	2	1	2	1	2	4	4	3	3	4	4	3	4	1	1	3	4	2	1	2	4	3	4	3	1	4	1
R27	1	3	4	4	3	4	4	3	3	4	3	2	1	3	2	3	4	2	4	2	4	3	4	3	1	4	1
R28	1	2	1	4	4	2	2	2	2	3	2	1	1	1	2	1	2	2	3	1	1	1	4	4	2	2	1
R29	1	4	4	4	4	2	2	4	4	4	3	1	1	1	4	1	4	4	4	2	1	1	4	2	1	2	2
R30	2	3	4	4	4	4	4	2	2	2	2	3	3	3	2	3	4	4	4	3	2	2	2	2	3	3	2

8. Lakukan Uji validitas dan Reliabilitas pada Responden di atas.

		P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
P1	Pearson Correlation	1	.028	-.121	-.189	.050	-.279	-.015	.172	.206	-.121	-.138	.033
	Sig. (2-tailed)		.883	.524	.317	.792	.135	.939	.362	.274	.524	.468	.862

P4	Pearson Correlation	-.189	.255	.430*	1	.754**	-.084	.162	.336	.498**	.582**	.275	-.187
	Sig. (2-tailed)	.317	.173	.018		.000	.660	.392	.069	.005	.001	.142	.321
	N	30	30	30	30	30	30	30	30	30	30	30	30
P5	Pearson Correlation	.050	.381*	.512**	.754**	1	-.062	-.061	.212	.478**	.483**	.197	-.087
	Sig. (2-tailed)	.792	.038	.004	.000		.745	.748	.261	.008	.007	.296	.649
	N	30	30	30	30	30	30	30	30	30	30	30	30
P6	Pearson Correlation	-.279	-.118	.148	-.084	-.062	1	.331	-.198	-.154	-.054	.101	.041

	Sig. (2-tailed)	.135	.535	.436	.660	.745		.074	.294	.417	.778	.595	.830
	N	30	30	30	30	30	30	30	30	30	30	30	30
P7	Pearson Correlation	-.015	-.256	-.060	.162	-.061	.331	1	-.036	.075	.057	.102	-.020
	Sig. (2-tailed)	.939	.173	.754	.392	.748	.074		.850	.692	.766	.591	.915
	N	30	30	30	30	30	30	30	30	30	30	30	30
P8	Pearson Correlation	.172	-.062	.168	.336	.212	-.198	-.036	1	.661**	.644**	.217	.069
	Sig. (2-tailed)	.362	.746	.375	.069	.261	.294	.850		.000	.000	.250	.716

	N	30	30	30	30	30	30	30	30	30	30	30	30
P9	Pearson Correlation	.206	.306	.280	.498**	.478**	-.154	.075	.661**	1	.768**	.253	.004
	Sig. (2-tailed)	.274	.100	.133	.005	.008	.417	.692	.000		.000	.178	.983
	N	30	30	30	30	30	30	30	30	30	30	30	30
P10	Pearson Correlation	-.121	.267	.275	.582**	.483**	-.054	.057	.644**	.768**	1	.535**	-.024
	Sig. (2-tailed)	.524	.154	.141	.001	.007	.778	.766	.000	.000		.002	.898
	N	30	30	30	30	30	30	30	30	30	30	30	30
P11	Pearson Correlation	-.138	.200	.199	.275	.197	.101	.102	.217	.253	.535**	1	-.152

	Sig. (2-tailed)	.468	.289	.293	.142	.296	.595	.591	.250	.178	.002		.423
	N	30	30	30	30	30	30	30	30	30	30	30	30
P12	Pearson Correlation	.033	.105	.079	-.187	-.087	.041	-.020	.069	.004	-.024	-.152	1
	Sig. (2-tailed)	.862	.583	.678	.321	.649	.830	.915	.716	.983	.898	.423	
	N	30	30	30	30	30	30	30	30	30	30	30	30
P13	Pearson Correlation	.378*	.031	-.067	-.312	-.171	.182	.049	.018	-.095	-.017	.000	.469**
	Sig. (2-tailed)	.040	.873	.725	.093	.366	.336	.797	.924	.618	.930	1.000	.009

P16	Pearson Correlation	.227	.281	.156	-.092	-.060	.041	-.005	.100	.324	.080	-.073	.305
	Sig. (2-tailed)	.228	.133	.409	.628	.752	.828	.980	.599	.081	.673	.701	.101
	N	30	30	30	30	30	30	30	30	30	30	30	30
P17	Pearson Correlation	-.084	.184	.034	.077	.096	-.087	.167	.298	.322	.441*	.044	.068
	Sig. (2-tailed)	.659	.329	.860	.687	.613	.649	.378	.110	.082	.015	.819	.720
	N	30	30	30	30	30	30	30	30	30	30	30	30
P18	Pearson Correlation	-.078	.104	.059	.097	-.058	-.027	.049	.122	.153	.163	.141	-.264

P21	Pearson Correlation	.033	.128	.289	.003	-.030	.341	-.020	.268	.212	.315	.378*	.123
	Sig. (2-tailed)	.862	.499	.121	.989	.874	.065	.915	.152	.260	.090	.040	.516
	N	30	30	30	30	30	30	30	30	30	30	30	30
P22	Pearson Correlation	.135	-.017	-.140	.029	-.071	.043	-.055	.387*	.341	.318	.303	.040
	Sig. (2-tailed)	.477	.928	.462	.878	.710	.822	.773	.035	.065	.087	.103	.832
	N	30	30	30	30	30	30	30	30	30	30	30	30
P23	Pearson Correlation	-.285	-.011	-.190	-.089	-.211	-.014	.054	-.020	.129	.271	.177	-.177

Case Processing Summary

		N	%
Cases	Valid	30	76.9
	Excluded ^a	9	23.1
	Total	39	100.0

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

Cronbach's	
Alpha	N of Items
.673	28

Dari table tersebut, dari 27 pertanyaan yang diberikan pada responden, 28 pertanyaan yang valid, sehingga reliabilitas dilakukan pada 28 pertanyaan yang valid tersebut,