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## 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

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?

Ada pengaruh uji beda setelah di lakukan penyuluhan dengan kecemasan remaja menghadapi masa pubertas karena sebagian besar data mengalami penurunan

Karena dalam tes ini menilai sebelum dan sesudah di lakukan penyuluhan dan skala yang di gunakan nominal jadi uji bedanya menggunakan wilcoxon

### Ranks

		N	Mean Rank	Sum of Ranks
sesudah penyuluhan - sebelum penyuluhan	Negative Ranks	21 <sup>a</sup>	11.00	231.00
	Positive Ranks	0 <sup>b</sup>	.00	.00
	Ties	8 <sup>c</sup>		
	Total	29		

a. sesudah penyuluhan < sebelum penyuluhan

b. sesudah penyuluhan > sebelum penyuluhan

c. sesudah penyuluhan = sebelum penyuluhan

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

	sesudah penyuluhan - sebelum penyuluhan
Z	-4.017 <sup>b</sup>
Asymp. Sig. (2-tailed)	.000

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

Hasil Asymp. Sig. (2-tailed) 0.000 sehingga dapat dikatakan bahwa ada perbedaan kecemasan remaja dalam menghadapi pubertas sebelum dan sesudah diberikan penyuluhan

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

Uji beda yang di gunakan mann-Whitney Test

### Mann-Whitney Test

#### Ranks

	Kode	N	Mean Rank	Sum of Ranks
Nilai	1	29	37.60	1090.50
	2	29	21.40	620.50
Total		58		

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

	Nilai
Mann-Whitney U	185.500
Wilcoxon W	620.500
Z	-3.660
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Kode

Hasil Asymp. Sig. (2-tailed) 0.000 sehingga dapat di katakana bahwa ada pengaruh antar 2 variabel

**PERTANYAAN**

	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21
R1	1	4	2	1	1	2	1	1	1	1	2	4	4	4	3	1	4	2	1	4	2
R2	1	4	4	3	3	3	1	1	1	1	4	1	1	1	1	4	1	1	2	1	4
R3	4	3	3	4	4	1	2	3	3	4	4	1	2	2	4	1	4	3	4	2	3
R4	1	1	1	4	1	2	4	4	3	3	4	1	1	2	4	1	2	4	3	4	2
R5	1	4	3	4	3	2	4	1	4	4	3	1	1	2	3	4	4	3	4	1	2
R6	4	1	1	1	1	1	1	3	2	1	1	2	3	1	4	3	2	2	2	3	3
R7	4	1	4	4	4	2	4	2	3	1	1	2	2	2	3	2	1	1	3	4	1
R8	3	4	4	4	3	3	2	3	4	4	4	4	4	3	3	4	1	4	4	4	4
R9	1	1	4	4	4	4	3	3	4	3	3	1	1	2	3	2	3	3	3	2	3
R10	1	1	4	4	4	2	1	4	3	4	4	1	1	1	3	1	3	4	4	1	3
R11	3	4	3	4	4	4	1	4	4	4	3	1	2	2	1	2	4	3	4	4	4
R12	4	3	4	4	4	2	2	4	4	4	4	1	4	2	1	3	1	1	1	1	3
R13	2	4	4	4	4	1	2	3	3	4	4	1	2	2	2	2	3	3	1	2	1
R14	2	2	4	4	4	3	4	4	3	4	4	4	4	1	4	1	4	1	1	4	4
R15	4	3	2	1	3	3	2	1	2	1	3	2	3	1	1	2	1	3	3	4	1
R16	2	4	4	4	4	2	3	2	3	3	4	2	2	2	4	1	3	4	3	2	4
R17	2	4	4	4	4	2	3	3	3	3	3	1	2	2	4	1	3	4	3	2	4
R18	2	3	4	3	3	2	1	3	2	2	2	3	2	4	2	3	2	3	2	2	2
R19	1	1	3	3	2	4	4	2	1	2	3	1	4	3	1	1	1	3	1	3	2
R20	2	1	3	3	2	4	4	2	1	2	3	1	3	3	1	1	2	3	2	3	3
R21	1	1	4	1	1	4	2	1	1	1	3	1	1	1	1	1	1	3	1	2	3
R22	1	4	4	4	4	4	1	2	3	4	3	1	4	2	2	1	2	3	2	4	4
R23	2	4	2	4	4	4	4	1	2	2	4	1	2	3	3	1	1	2	2	4	2
R24	1	4	4	4	4	3	2	4	4	4	3	4	2	1	4	4	1	1	3	2	3
R25	4	4	3	2	2	3	4	4	4	3	3	1	3	3	4	4	4	4	1	2	4
R26	2	1	2	1	2	4	4	3	3	4	4	3	4	1	1	3	4	2	1	2	4
R27	1	3	4	4	3	4	4	3	3	4	3	2	1	3	2	3	4	2	4	2	4
R28	1	2	1	4	4	2	2	2	2	3	2	1	1	1	2	1	2	2	3	1	1
R29	1	4	4	4	4	2	2	4	4	4	3	1	1	1	4	1	4	4	4	2	1
R30	2	3	4	4	4	4	4	2	2	2	2	3	3	3	2	3	4	4	4	3	2

												Correlations	
		P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	
P1	Pearson Correlation	1	.028	-.121	-.189	.050	-.279	-.015	.172	.206	-.121	-.1	
	Sig. (2-tailed)		.883	.524	.317	.792	.135	.939	.362	.274	.524	.4	
	N	30	30	30	30	30	30	30	30	30	30	30	
P2	Pearson Correlation	.028	1	.270	.255	.381*	-.118	-.256	-.062	.306	.267	.2	
	Sig. (2-tailed)	.883		.149	.173	.038	.535	.173	.746	.100	.154	.2	
	N	30	30	30	30	30	30	30	30	30	30	30	
P3	Pearson Correlation	-.121	.270	1	.430*	.512**	.148	-.060	.168	.280	.275	.1	
	Sig. (2-tailed)	.524	.149		.018	.004	.436	.754	.375	.133	.141	.2	
	N	30	30	30	30	30	30	30	30	30	30	30	
P4	Pearson Correlation	-.189	.255	.430*	1	.754**	-.084	.162	.336	.498**	.582**	.2	
	Sig. (2-tailed)	.317	.173	.018		.000	.660	.392	.069	.005	.001	.1	
	N	30	30	30	30	30	30	30	30	30	30	30	
P5	Pearson Correlation	.050	.381*	.512**	.754**	1	-.062	-.061	.212	.478**	.483**	.1	
	Sig. (2-tailed)	.792	.038	.004	.000		.745	.748	.261	.008	.007	.2	
	N	30	30	30	30	30	30	30	30	30	30	30	
P6	Pearson Correlation	-.279	-.118	.148	-.084	-.062	1	.331	-.198	-.154	-.054	.1	
	Sig. (2-tailed)	.135	.535	.436	.660	.745		.074	.294	.417	.778	.5	
	N	30	30	30	30	30	30	30	30	30	30	30	
P7	Pearson Correlation	-.015	-.256	-.060	.162	-.061	.331	1	-.036	.075	.057	.1	
	Sig. (2-tailed)	.939	.173	.754	.392	.748	.074		.850	.692	.766	.5	
	N	30	30	30	30	30	30	30	30	30	30	30	
P8	Pearson Correlation	.172	-.062	.168	.336	.212	-.198	-.036	1	.661**	.644**	.2	
	Sig. (2-tailed)	.362	.746	.375	.069	.261	.294	.850		.000	.000	.2	
	N	30	30	30	30	30	30	30	30	30	30	30	
P9	Pearson Correlation	.206	.306	.280	.498**	.478**	-.154	.075	.661**	1	.768**	.2	
	Sig. (2-tailed)	.274	.100	.133	.005	.008	.417	.692	.000		.000	.1	
	N	30	30	30	30	30	30	30	30	30	30	30	
P10	Pearson Correlation	-.121	.267	.275	.582**	.483**	-.054	.057	.644**	.768**	1	.53	

	Sig. (2-tailed)	.524	.154	.141	.001	.007	.778	.766	.000	.000		.0
	N	30	30	30	30	30	30	30	30	30	30	
P11	Pearson Correlation	-.138	.200	.199	.275	.197	.101	.102	.217	.253	.535**	
	Sig. (2-tailed)	.468	.289	.293	.142	.296	.595	.591	.250	.178	.002	
	N	30	30	30	30	30	30	30	30	30	30	
P12	Pearson Correlation	.033	.105	.079	-.187	-.087	.041	-.020	.069	.004	-.024	-.1
	Sig. (2-tailed)	.862	.583	.678	.321	.649	.830	.915	.716	.983	.898	.4
	N	30	30	30	30	30	30	30	30	30	30	
P13	Pearson Correlation	.378*	.031	-.067	-.312	-.171	.182	.049	.018	-.095	-.017	.0
	Sig. (2-tailed)	.040	.873	.725	.093	.366	.336	.797	.924	.618	.930	1.0
	N	30	30	30	30	30	30	30	30	30	30	
P14	Pearson Correlation	.031	.235	.063	.055	-.173	.151	.195	-.157	-.168	-.151	-.1
	Sig. (2-tailed)	.871	.212	.740	.773	.362	.425	.302	.408	.375	.425	.3
	N	30	30	30	30	30	30	30	30	30	30	
P15	Pearson Correlation	.061	.176	-.027	.274	.124	-.501**	.114	.374*	.428*	.224	-.0
	Sig. (2-tailed)	.750	.351	.888	.143	.515	.005	.550	.042	.018	.235	.9
	N	30	30	30	30	30	30	30	30	30	30	
P16	Pearson Correlation	.227	.281	.156	-.092	-.060	.041	-.005	.100	.324	.080	-.0
	Sig. (2-tailed)	.228	.133	.409	.628	.752	.828	.980	.599	.081	.673	.7
	N	30	30	30	30	30	30	30	30	30	30	
P17	Pearson Correlation	-.084	.184	.034	.077	.096	-.087	.167	.298	.322	.441*	.0
	Sig. (2-tailed)	.659	.329	.860	.687	.613	.649	.378	.110	.082	.015	.8
	N	30	30	30	30	30	30	30	30	30	30	
P18	Pearson Correlation	-.078	.104	.059	.097	-.058	-.027	.049	.122	.153	.163	.1
	Sig. (2-tailed)	.684	.584	.757	.609	.763	.886	.799	.521	.420	.389	.4
	N	30	30	30	30	30	30	30	30	30	30	
P19	Pearson Correlation	-.039	.175	.121	.520**	.424*	-.093	-.039	.131	.402*	.300	-.0

	Sig. (2-tailed)	.837	.354	.523	.003	.020	.626	.839	.490	.028	.107	.7
	N	30	30	30	30	30	30	30	30	30	30	30
P20	Pearson Correlation	.227	-.025	-.239	-.111	-.177	.269	.123	-.107	-.133	-.254	-.1
	Sig. (2-tailed)	.227	.897	.203	.558	.350	.150	.518	.573	.483	.175	.3
	N	30	30	30	30	30	30	30	30	30	30	30
P21	Pearson Correlation	.033	.128	.289	.003	-.030	.341	-.020	.268	.212	.315	.37
	Sig. (2-tailed)	.862	.499	.121	.989	.874	.065	.915	.152	.260	.090	.0
	N	30	30	30	30	30	30	30	30	30	30	30
P22	Pearson Correlation	.135	-.017	-.140	.029	-.071	.043	-.055	.387*	.341	.318	.3
	Sig. (2-tailed)	.477	.928	.462	.878	.710	.822	.773	.035	.065	.087	.1
	N	30	30	30	30	30	30	30	30	30	30	30
ptotal	Pearson Correlation	.190	.451*	.403*	.527**	.460*	.099	.224	.555**	.750**	.702**	.3
	Sig. (2-tailed)	.313	.012	.027	.003	.010	.603	.234	.001	.000	.000	.0
	N	30	30	30	30	30	30	30	30	30	30	30

\*. Correlation is significant at the 0.05 level (2-tailed).

\*\* . Correlation is significant at the 0.01 level (2-tailed).

Dari uji validitas di atas di dapatkan 10 pertanyaan tidak valid karna hasil sig 2-tailed nya lebih dari 0,05 yang terdapat pada pertanyaan nomor 1,6,7,11,12,13,14,16,17 dan 18

## UJI REABILITAS

### Case Processing Summary

		N	%
Cases	Valid	30	100.0
	Excluded <sup>a</sup>	0	.0

Total	30	100.0
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a. Listwise deletion based on all variables in the procedure.

### Reliability Statistics

Cronbach's Alpha	N of Items
.715	22

Dari hasil uji reabilitas dari jumlah nilai 30 semua di nyatakan valid dan dari 22 pertanyaan semua dinyatakan reabel karena nilai Alpa 0,715 yang artinya nilai alpa lebih dari 0,6 atau mendekati 1.