

Lampiran 1

Hasil Perhitungan Skrining Foto Toraks Microsoft Excel

No	Peneliti	Sensitivitas	Kuadrat sen-mean	Standar deviasi	95% CI
1	Telisinghe, <i>et al.</i> , 2014	70,6000%	0,8836%	0,3192%	0,0213%
2	Leung C. <i>et al.</i> , 2005	100,0000%	4,0000%	0,7010%	0,0482%
3	Sanchez, <i>et al.</i> , 2013	40,1200%	15,9041%	0,6063%	0,0181%
4	Pelissari D. M. <i>et al.</i> , 2018	91,1600%	1,2455%	0,1098%	0,0021%
5	Sanchez, <i>et al.</i> , 2005	100,0000%	4,0000%	0,6181%	0,0375%
Jumlah		4,02	0,2603	2,3545%	0,1272%
Rata-rata		80,38%	0,0521		
Standar Deviasi		0,228149649			

No	Peneliti	Spesifitas	Kuadrat spe-mean	Standar deviasi	95% CI
1	Telisinghe, <i>et al.</i> , 2014	92,20%	0,0004%	0,0068%	0,0005%
2	Leung C. <i>et al.</i> , 2005	94,65%	0,0702%	0,0929%	0,0064%
3	Sanchez, <i>et al.</i> , 2013	100,00%	0,6400%	0,1216%	0,0036%
4	Pelissari D. M. <i>et al.</i> , 2018	84,48%	0,5655%	0,0740%	0,0014%
5	Sanchez, <i>et al.</i> , 2005	88,25%	0,1406%	0,1159%	0,0070%
Jumlah		4,60	0,0142	0,4112%	0,0189%
Rata-rata		91,92%	0,0028335		
Standar Deviasi		0,053224077			

No	Peneliti	PPV	Kuadrat PPV - mean	Standar deviasi	95% CI
1	Telisinghe, <i>et al.</i> , 2014	27,00%	0,8859%	0,3196%	1,7997%
2	Leung C. <i>et al.</i> , 2005	18,87%	3,0772%	0,6148%	1,2982%
3	Sanchez, <i>et al.</i> , 2013	100,00%	40,4343%	0,9668%	2,9808%
4	Pelissari D. M. <i>et al.</i> , 2018	9,48%	7,2533%	0,2650%	0,1829%
5	Sanchez, <i>et al.</i> , 2005	26,71%	0,9413%	0,2998%	1,6198%
Jumlah		1,82	0,5259	2,4662%	7,8814%
Rata-rata		36,41%	0,105184054		
Standar Deviasi		0,324320911			

No	Peneliti	NPV	Kuadrat NPV- mean	Standar deviasi	95% CI
1	Telisinghe, <i>et al.</i> , 2014	98,70%	0,0028%	0,0181%	6,5790%
2	Leung C. <i>et al.</i> , 2005	100,00%	0,0100%	0,0350%	6,8799%
3	Sanchez, <i>et al.</i> , 2013	97,65%	0,0250%	0,0241%	2,9107%
4	Pelissari D. M. <i>et al.</i> , 2018	99,81%	0,0033%	0,0057%	1,9253%
5	Sanchez, <i>et al.</i> , 2005	100,00%	0,0100%	0,0309%	6,0643%
Jumlah		4,96	0,0005	0,1138%	24,3593%
Rata-rata		99,2320%	0,0001		
Standar Deviasi		0,009273058			

Lampiran 2

Hasil Perhitungan Skrining Gejala Microsoft Excel

No	Peneliti	Sensitivitas	Kuadrat sen-mean	Standar deviasi	95% CI
1	Telisinghe, <i>et al.</i> , 2014	38,20%	0,03345241	0,6212%	0,0414%
2	Leung C. <i>et al.</i> , 2005	40,00%	0,02719201	0,5780%	0,0398%
3	Sanchez, <i>et al.</i> , 2013	55,09%	0,000196	0,0213%	0,0006%
4	Pelissari D. M. <i>et al.</i> , 2018	49,17%	0,00535824	0,0720%	0,0014%
5	Sanchez, <i>et al.</i> , 2005	100,00%	0,18931201	1,3447%	0,0815%
Jumlah		2,82	0,2555	2,6371%	0,1647%
Rata-rata		56,49%	0,0511		
Standar Deviasi		0,22605781			

No	Peneliti	Spesifitas	Kuadrat spe-mean	Standar deviasi	95% CI
1	Telisinghe, <i>et al.</i> , 2014	65,80%	0,0187964	0,4656%	0,0310%
2	Leung C. <i>et al.</i> , 2005	100,00%	0,0420	0,7182%	0,0494%
3	Sanchez, <i>et al.</i> , 2013	100,00%	0,04198401	0,3115%	0,0093%
4	Pelissari D. M. <i>et al.</i> , 2018	78,94%	0,000033	0,0056%	0,0001%
5	Sanchez, <i>et al.</i> , 2005	52,80%	0,0713	0,8255%	0,0501%
Jumlah		397,54%	0,1741	2,3264%	0,1399%
Rata-rata		79,51%	0,0348279		
Standar Deviasi		0,186622254			

No	Peneliti	PPV	Kuadrat PPV - mean	Standar deviasi	95% CI
1	Telisinghe, <i>et al.</i> , 2014	4,40%	0,147886394	1,3060%	0,0871%
2	Leung C. <i>et al.</i> , 2005	100,00%	0,3265	2,0029%	0,1378%

3	Sanchez, <i>et al.</i> , 2013	100,00%	0,326543674	0,8688%	0,0259%
4	Pelissari D. M. <i>et al.</i> , 2018	4,00%	0,1510	0,3824%	0,0074%
5	Sanchez, <i>et al.</i> , 2005	5,88%	0,1367	1,1427%	0,0693%
Jumlah		214,28%	1,0887	0,0570	0,3274%
Rata-rata		42,86%	0,217735014		
Standar Deviasi		0,466620847			

No	Peneliti	NPV	Kuadrat NPV-mean	Standar deviasi	95% CI
1	Telisinghe, <i>et al.</i> , 2014	96,30%	0,0497%	0,0757%	6,4191%
2	Leung C. <i>et al.</i> , 2005	99,26%	0,0053%	0,0256%	6,8290%
3	Sanchez, <i>et al.</i> , 2013	98,23%	0,0009%	0,0046%	2,9280%
4	Pelissari D. M. <i>et al.</i> , 2018	98,86%	0,0011%	0,0032%	1,9070%
5	Sanchez, <i>et al.</i> , 2005	100,00%	0,0216%	0,0454%	6,0643%
Jumlah		100,00%	0,0216%	0,0454%	6,0643%
Rata-rata		492,65%	0,0787%		
Standar Deviasi		98,53%	0,0157%		

Lampiran 3

Sensitivitas Gabungan

No	Studi	N	Skrining Foto Toraks			Skrining Gejala		
			Stdev	CI	Sensitivitas (95% CI)	Stdev	CI	Sensitivitas (95% CI)
1	Telisinghe, et al., 2014	867	0,3192%	0,0213%	70,6% (70,5787% - 70,6213%)	0,6212%	0,0414%	38,20% (38,1586% - 38,2414%)
2	Leung C. et al., 2005	814	0,7010%	0,0482%	100% (99,9518% - 100,0482%)	0,5780%	0,0398%	40,00% (39,9602% - 40,0398%)
3	Sanchez, et al., 2013	4.326	0,6063%	0,0181%	40,12% (40,1019% - 40,1381%)	0,0213%	0,0006%	55,09% (55,0894% - 55,0906%)
4	Pelissari D. M. et al., 2018	10.326	0,1098%	0,0021%	91,16% (91,1579% - 91,1621%)	0,0720%	0,0014%	49,17% (49,1686% - 49,1714%)
5	Sanchez, et al., 2005	1.037	0,6181%	0,0375%	100% (99,9625% - 100,0375%)	1,3447%	0,0815%	100,00% (99,9185% - 100,0815%)
	Total	17.380	2,3545%	0,1272%	80,38% (80,3506% - 80,4014%)	2,6371%	0,1647%	56,49% (56,4591% - 56,5249%)

- $F = \frac{2,6371}{2,3545} = 1,1$

$$F \text{ tabel} = (\alpha 0,05; \frac{nA-1}{nB-1}) = \alpha 0,05; \frac{4}{4} = 6,39$$

F hitung < f tabel, maka data homogen.

- Nilai T test

$$T = \frac{80,38 - 56,49}{0,99} = \frac{23,89}{0,99} = 24,13$$

$$T \text{ tabel} = \alpha 0,05; n1+n2-2 = \alpha 0,05; 8 = 2,30$$

T hitung > t tabel, maka ada perbedaan signifikan.

Lampiran 4

Spesifitas Gabungan

No	Studi	N	Skrining Foto Toraks			Skrining Gejala		
			Stdev	CI	Spesifitas (95% CI)	Stdev	CI	Spesifitas (95% CI)
1	Telisinghe, et al., 2014	867	0,0068%	0,0005%	92,20% (92,1995% - 92,2005%)	0,4656%	0,0310%	65,80% (65,7690% - 65,8310%)
2	Leung C. et al., 2005	814	0,0929%	0,0064%	94,65% (94,6436% - 94,6564%)	0,7182%	0,0494%	100,00% (99,9506% - 100,0494%)
3	Sanchez, et al., 2013	4.326	0,1216%	0,0036%	100,00% (99,9964% - 100,0036%)	0,3115%	0,0093%	100,00% (99,9907% - 100,0093%)
4	Pelissari D. M. et al., 2018	10.326	0,0740%	0,0014%	84,48% (84,4786% - 84,4814%)	0,0056%	0,0001%	78,94% (78,9399% - 78,9401%)
5	Sanchez, et al., 2005	1.037	0,1159%	0,0070%	88,25% (88,2430% - 88,2570%)	0,8255%	0,0501%	52,80% (52,7499% - 52,8501%)
	Total	17.380	0,4112%	0,0189%	91,92% (91,9122% - 91,9198%)	2,3264%	0,1399%	79,51% (79,48% - 79,5360%)

- $F = \frac{2,3264}{0,4112} = 5,65$

$$F \text{ tabel} = (\alpha 0,05; \frac{nA-1}{nB-1}) = \alpha 0,05; \frac{4}{4} = 6,39$$

F hitung < f tabel, maka data homogen.

- Nilai T test

$$T = \frac{91,92 - 79,51}{0,74} = \frac{12,41}{0,74} = 16,77$$

$$T \text{ tabel} = \alpha 0,05; n1+n2-2 = \alpha 0,05; 8 = 2,30$$

T hitung > t tabel, maka ada perbedaan signifikan.

Lampiran 5

PPV Gabungan

No	Studi	N	Skrining Foto Toraks			Skrining Gejala		
			Stdev	CI	PPV (95% CI)	Stdev	CI	PPV(95% CI)
1	Telisinghe, et al., 2014	867	0,3196 %	1,7997%	27,00% (25,2003% - 28,7997%)	1,3060%	0,0871%	4,40% (4,3129% - 4,4871%)
2	Leung C. et al., 2005	814	0,6148 %	1,2982%	18,87% (17,5718% - 20,1682%)	2,0029%	0,1378%	100,00% (99,8622% - 100,1378%)
3	Sanchez, et al., 2013	4.326	0,9668 %	2,9808%	100,00% (97,0192% - 102,9808%)	0,8688%	0,0259%	100,00% (99,9741% - 100,0259%)
4	Pelissari D. M. et al., 2018	10.326	0,2650 %	0,1829%	9,48% (9,2971% - 9,6629%)	0,3824%	0,0074%	4,00% (3,9926% - 4,0074%)
5	Sanchez, et al., 2005	1.037	0,2998 %	1,6198%	26,71% (25,0902% - 28,3298%)	1,1427%	0,0693%	5,88% (5,8107% - 5,9493%)
	Total	17.380	2,4662 %	7,8814%	36,41% (34,8357% - 37,9883%)	0,1546%	0,3274%	42,86% (42,7905% - 42,9215%)

- $F = \frac{2,4662}{0,1546} = 15,95$

$$F \text{ tabel} = (\alpha 0,05; \frac{nA-1}{nB-1}) = \alpha 0,05; \frac{4}{4} = 6,39$$

F hitung > f tabel, maka data tidak homogen.

- Nilai T test

$$T = \frac{36,41 - 42,86}{0,68} = \frac{12,41}{0,68} = 9,48$$

$$T \text{ tabel} = \alpha 0,05; n1 - 1 = \alpha 0,05; 4 = 2,77$$

T hitung > t tabel, maka ada perbedaan signifikan

Lampiran 6

NPV Gabungan

No	Studi	Skrining Foto Toraks				Skrining Gejala		
		N	Stdev	CI	NPV (95% CI)	Stdev	CI	NPV (95% CI)
1	Telisinghe, et al., 2014	867	0,0181%	6,5790%	98,70% (92,1210% - 105,2790%)	0,0757%	6,4191%	96,30% (89,8809% - 102,7191%)
2	Leung C. et al., 2005	814	0,0350%	6,8799%	100,00% (93,1201% - 106,8799%)	0,0256%	6,8290%	99,26% (92,4310% - 106,0890%)
3	Sanchez, et al., 2013	4.326	0,0241%	2,9107%	97,65% (94,7393% - 100,5607%)	0,0046%	2,9280%	98,23% (95,3020% - 101,1580%)
4	Pelissari D. M. et al., 2018	10.326	0,0057%	1,9253%	99,81% (97,8847% - 101,7353%)	0,0032%	1,9070%	98,86% (96,9530% - 100,7670%)
5	Sanchez, et al., 2005	1.037	0,0309%	6,0643%	100,00% (93,9357% - 106,0643%)	0,0454%	6,0643%	100,00% (93,9357% - 106,0643%)
	Total	17.380	0,1138%	24,3593%	99,2320% (94,3601% - 104,1039%)	0,1546%	24,1473%	98,53% (93,7005% - 103,3595%)

- $F = \frac{0,1546}{0,1138} = 1,35$

$$F \text{ tabel} = (\alpha 0,05; \frac{nA-1}{nB-1}) = \alpha 0,05; \frac{4}{4} = 6,39$$

F hitung < f tabel, maka data homogen.

- Nilai T test

$$T = \frac{99,2320 - 98,53}{0,23} = \frac{0,702}{0,23} = 3,03$$

$$T \text{ tabel} = \alpha 0,05; n1+n2-2 = \alpha 0,05; 8 = 2,30$$

T hitung > t tabel, maka ada perbedaan signifikan

Lampiran 7

Surat Bebas Plagiarism

SURAT PERNYATAAN BEBAS PLAGIARISM

Saya yang bertanda tangan dibawah ini:

Nama : Monica She Queen

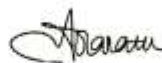
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Dengan ini menyatakan bahwa judul karya tulis ilmiah "Keakuratan Skrining Foto Toraks dibandingkan dengan Skrining Gejala dalam Mendeteksi Kasus Tuberkulosis Secara Aktif pada Narapidana di Lembaga Pemasyarakatan: *Systematic Review*" benar bebas dari plagiarism, dengan skor 21%. Apabila pernyataan ini terbukti tidak benar maka saya bersedia menerima sanksi sesuai ketentuan yang berlaku.

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Dosen Pembimbing



dr. Andriana Daud Laratu, SpRad

Jakarta, 12 Februari 2021



Monica She Queen

KEAKURATAN SKRINING
FOTO TORAKS
DIBANDINGKAN DENGAN
SKRINING GEJALA DALAM
MENDETEKSI KASUS
TUBERKULOSIS SECARA
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SYSTEMATIC REVIEW

by Monica She Queen

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