0.65 [0.50, 0.85]

C

M-H. Random, 95% C 1.00 [0.45, 2.23] 1.00 [0.45, 2.23] 5.00 [0.31, 79.94] 3.00 [0.14, 65.90]
1.00 [0.45, 2.23] 5.00 [0.31, 79.94]
1.00 [0.45, 2.23] 5.00 [0.31, 79.94]
3.00 [0.14, 65,90]
6.00 [0.78, 46.42]
4.90 [1.15, 20.93]
2.10 [0.67, 6.61]

В

	Experimental			Control				Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV. Random, 95% CI
1.4.1 physician improvemen	nt score(f	facial	vitiligo	)				
Kanokrungsee S et al, 2016	2.2	1.8	12	2.2	1.9	12	9.5%	0.00 [-1.48, 1.48]
Subtotal (95% CI)			12			12	9.5%	0.00 [-1.48, 1.48]
Heterogeneity: Not applicable								
Test for overall effect: Z = 0.0	0 (P = 1.0	00)						
1.4.2 physician improvemen	nt score(	refrac	tory vi	tiligo)				
Shin J et al, 2011	0.9	1.1	10	0.2	0.4	10	39.6%	0.70 [-0.03, 1.43]
Vachiramon V et al, 2015	1.4	1.4	26	0.5	0.9	26	50.9%	0.90 [0.26, 1.54]
Subtotal (95% CI)			36			36	90.5%	0.81 [0.33, 1.29]
Heterogeneity: Tau <sup>2</sup> = 0.00; C	chi <sup>2</sup> = 0.16	6, df =	1 (P =	0.69); F	= 09	6		
Test for overall effect: Z = 3.3	2 (P = 0.0	0009)		13501				
Total (95% CI)			48			48	100.0%	0.74 [0.28, 1.19]
Heterogeneity: Tau <sup>2</sup> = 0.00: C	hi <sup>2</sup> = 1 21	df =	2 (P =	0.55): 1	$= 0^{\circ}$	1/0		Sancon Code San Print

Experimental Control Risk Ratio Events Total Events Total Weight M-H, Random, 95% Cl Study or Subgroup 1.2.1 <=25% re-pigmentation(facial vitiligo) Kanokrungsee S et al, 2016 Subtotal (95% CI) 0.80 [0.28, 2.27] 0.80 [0.28, 2.27] 4 12 Total events 5 Heterogeneity: Not applicable Test for overall effect: Z = 0.42 (P = 0.68) 1.2.2 <=25% re-pigmentation(refractory vitiligo) Cunha PR et al, 2016 0.56 [0.22, 1.40] 8.1% 2 0.71 [0.47, 1.09] 0.61 [0.42, 0.89] 0.64 [0.49, 0.85] Shin J et al, 2011 Vachiramon V et al, 2015 10 10 10 38.4% 47.2% 14 26 23 26 40 Subtotal (95% CI) 40 93.7% 37 Total events Heterogeneity: Tau<sup>2</sup> = 0.00; Chi<sup>2</sup> = 0.43, df = 2 (P = 0.81); I<sup>2</sup> = 0%

Total (95% CI) 52 52 100.0% 42

Heterogeneity:  $Tau^2 = 0.00$ ;  $Chi^2 = 0.57$ , df = 3 (P = 0.90);  $I^2 = 0\%$ Test for overall effect: Z = 3.17 (P = 0.002)

Test for overall effect: Z = 3.16 (P = 0.002)

Test for overall effect: Z = 3.17 (P = 0.002)

Test for subgroup differences:  $Chi^2 = 0.15$ , df = 1 (P = 0.69),  $I^2 = 0\%$ 

Test for subgroup differences:  $Chi^2 = 1.05$ , df = 1 (P = 0.31),  $I^2 = 4.5\%$ 

	Experimental			Control				Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV. Random, 95% CI
1.5.1 Patients' overall satisf	action(fa	cial v	itiligo)					
Kanokrungsee S et al, 2016	8	2.8	14	7.7	2.5	12	17.2%	0.30 [-1.74, 2.34]
Subtotal (95% CI)			14			12	17.2%	0.30 [-1.74, 2.34]
Heterogeneity: Not applicable								
Test for overall effect: Z = 0.2	9 (P = 0.7)	77)						
1.5.2 Patients' overall satisf	action(re	fracto	ry vitil	igo)				
Shin J et al, 2011	1.7	1.6	10	0.4	0.7	10	52.6%	1.30 [0.22, 2.38]
Vachiramon V et al, 2015	5.7	2.9	26	3.5	2.6	26	30.2%	2.20 [0.70, 3.70]
Subtotal (95% CI)			36			36	82.8%	1.61 [0.73, 2.49]
Heterogeneity: Tau <sup>2</sup> = 0.00; C	$hi^2 = 0.91$	, df =	1 (P =	0.34); 1	= 09	%		
Test for overall effect: Z = 3.6	0 (P = 0.0)	0003)						
Total (95% CI)			50			48	100.0%	1.40 [0.53, 2.27]
Heterogeneity: Tau <sup>2</sup> = 0.07; C	hi <sup>2</sup> = 2.25	5, df =	2 (P =	0.32); 1	= 11	1%		
Test for overall effect: Z = 3.1	5 (P = 0.0	002)						
Test for subgroup differences	: Chi2 = 1	.34, df	= 1 (P	= 0.25)	,  2 =	25.2%		

Fig S3. Efficacy of fractional carbon dioxide (CO<sub>2</sub>) laser add-on to vitiligo. (A) Treatment success greater than 50% re-pigmentation rate, (B) physician improvement score, (C) re-pigmentation rate 25% or less, (D) patient's overall satisfaction. [Control] represents conventional treatment alone; [Experimental] denotes fractional CO2 laser add-on to conventional therapy. CI: confidence interval.