2. Personal history of hypertrophic scar.

-1.25 inch-1) It is accomplished by Patient Satisfaction Score (PSS), where all participants in the study are given questionnaire to evaluate their response after one month of the last laser session, they have been asked to choose one of four choices to answer the appreciation question.

-1.5 inch-A. The three dermatologists assess the photos individually by choosing one of percentages (0-100%) to indicate the rate of regimentation for each lesion for all of the participants.

B. All the patients completed the three sessions of laser therapy. They visited the clinic every two weeks after each laser session for follow up and photography. One month after the last laser session, photographs were taken to all treated patches to be used in the assessment.

-1.75 incha. After all assessors completed their assessment, results taken and were scored into numbers to be analyzed statistically, as shown in table 2.1. **Table 2.1** Characteristics of the Participants in the Study

Item	Pt.1	Pt.2	Pt.3	Pt.4	Pt.5	Pt.6
Age(yr.)	35	50	25	36	34	65
Sex	Male	Male	Female	Female	Female	Male
Age of onset of	5-6	10	11	11-12	32	64
vitiligo (yr.)						
Type of vitiligo	Focal	Generaliz	Generaliz	Acrof-	Generalize	Segmen
		ed	ed	acial	d	tal
Skin phototype	III	III	IV-V	III-IV	III	IV
Duration of	30	40	14	25	2	1
vitiligo (yr.)						
Number of	1	1	3	4	5	3
treated Vetiligo						
patches						
Race	Thai	Thai	Thai	Thai	Thai	Thai

This is a prospective randomized controlled bilateral left-right comparison trial. It was performed in accordance with Good Clinical Practice. The treatment protocol has been reviewed with each patient who then signed the informed consent. The research was accomplished at Mae Fah Luang University Hospital, Bangkok (Outpatient department).

According to the Clinical Assessment of Repigmentation degree, the mean results of the three dermatologists assessment showed 14 patches (82%) out of the 17 patches were given score 1 which means 1%-24% repigmentation, while only 3 patches (18%) were given 0 score, 6 his means that carbon dioxide laser has achieved mild repigmentation effect in vitiligo patches.

One patient noticed repigmentation in areas not treated by laser, she claimed that repigmenation started to occur in her neck and chest during period of the study, this encouraging news need to be verified in the light of any immunological effects of carbon dioxide laser or it is just an accidental event or something else. But we know that Vitiligo is known as a slowly responding disease so three months of laser sessions may be not enough to achieve complete clinical improvement in repigmentation.

Item	Feature		
Laser type	RF CO2 ALL METAL SEALED TYPE		
Laser power	up to 30 watt		
Laser mode	TEMoo (10.6 μm)		
Pulse duration	100-5000 µs		
Repetition	0.2-1 s/single		
Overlap	1-10 TH		
Distance	0.1-2 mm		
Treatment area	1*1 - 20*20 mm		
Text	Text		

Table 2.2 The Features of the CICU RF Laser Device

Table 2.2 (continued)

Item	Feature		
Pixel quantity	up to 40,401		
Pixel size	> 100 micron		
Cooling	Air Cooling		
Optical guide	Articulated arm		

Note Pt. for (patient), CAR for (Clinical Assessment of the Repigmentation)





Figure 2.1 CICU RF CO2 Laser Device Spacing 24 pt

After this relatively short period of follow up, the results, in conclusion, showed patient satisfaction score 16.7% (1 patient) were really satisfied, 66.7% (4 patients) were slightly satisfied and 16.7% (1 patient) with poor satisfaction.