



**CLINICAL STUDY
LED**



As a light specialist, Yperion sought to extend its scope in the cold light with LED technology, in order to offer to its partners a technology less seasonal and that can be used on a wider range of clients, with fewer constraints. Serenity skin aims to work on all aging signs, both in prevention and cure.

Each program seeks to address specific skin problems, while improving its texture and radiance.

This technology, based on light, enables to restart the process of cell renewal, which tends to slow down from age of 25.

4 essential criteria are required for optimal results:

- The number of diodes
- The choice of wavelengths
- The energy delivered
- The frequency of stimulation

NUMBER OF DIODES:

- 3 panels including
 - 1440 bicolor LED (blue / red)
 - 720 infra red LED

2160 diodes enabling to treat a large area and get the best results

THE CHOICE OF WAVELENGTHS : 3 wavelengths were selected:

- Wavelength 470 nm = fight against low mood due to the winter period / clean and healthy skin.
 - Fight against low mood due to the winter period: 1 person out of 5 suffers from low mood due to the winter period, because of lack of exposure to light. The solution: exposure to Serenity blue light.
 - Antiseptic / astringent: the combination between blue and red light provides an anti-inflammatory and anti-septic effect. They jointly can regulate sebum production and thus enable to get clear and healthy skin.
- Wavelength 625 nm = smoother and firmer skin

Due to external factors: sun, smoking, pollution and natural aging, the level of collagen decreases in the skin. This decrease is responsible for the sagging skin and the loss of elasticity. To prevent this phenomenon, the exposure to Serenity red light enables to:

 - Stimulate the production of elastin and collagen.
 - Chromostimulation by the red light stimulates the release of triphosphate of adenosine, the main carrier of the cell energy.

This is how the cells get back their elasticity and tone, different aging signs are greatly diminished. Redness is decongested, cell metabolism is boosted, and thus the complexion is more uniform, less reactive and more able to fight against external aggressions.

- Wavelength 880 nm = glowing and shiny skin

- Oxygenation of the cells: Serenity infrared LED light improves the lymphatic system activity.

After repeated exposures to the Serenity machine, the diameter of the vessels of the lymph and the flow of the lymph system can be multiplied by 2. The diameter of the veins and arteries is also increased, thereby improving the evacuation of toxins and the oxygenation of cells. Result: healthier, brighter and younger skin.

- Cell renewal activated: Serenity infrared LED light enables to increase circulation by boosting the formation of new capillaries, and thus replacing those that are damaged. The skin and the cells exposed to the LED infrared light grow 150% to 200% times faster than the skin and cells not exposed to the same light. Cell renewal is activated, the skin is more beautiful and more radiant

The choice and the alternation of colors in each program is specifically designed to optimize the results based on each client's skin problem.

ENERGY DELIVERED: Intensity issued: 192 J/cm²

THE FREQUENCY OF STIMULATION

The rapidity of the ignition frequency is above 100Hz. If the energy delivered by LED Technology the machine with is not accompanied by a sufficient stimulation frequency, the results of the skin care won't be optimized. If the frequency is below 25 Hz, the light won't be continuously delivered and the results will be minimal. .

➤ Sylvie B. : Age: 54 years old, Light complexion, 5 sessions: Once a week

LEFT VIEW



PICTURE BEFORE



PICTURE AFTER

RIGHT VIEW



PICTURE BEFORE



PICTURE AFTER

FRONT VIEW



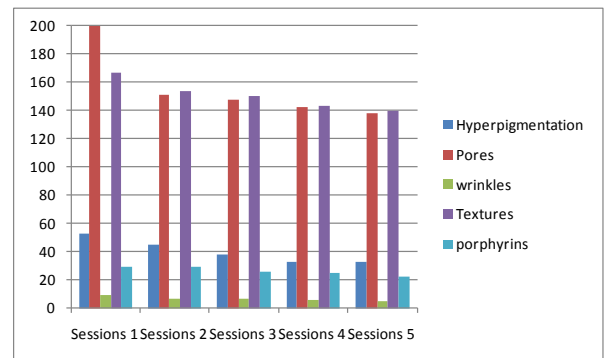
PICTURE BEFORE



PICTURE AFTER

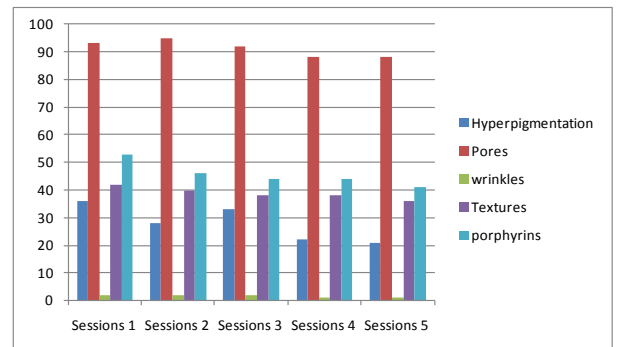
RESULTS SYNTHESIS

left view	session 1	session 2	session 3	sessions 4	sessions 5
Hyperpigmentation	53	45	38	33	33
Pores	203	151	148	142	138
wrinkles	9	7	7	6	5
Textures	167	154	150	143	140
porphyrins	29	29	26	25	22
UV Hyperpigmentation	83	80	82	80	78



Left view Synthesis

right view	session 1	session 2	session 3	session 4	session 5
Hyperpigmentation	36	28	33	22	21
Pores	93	95	92	88	88
wrinkles	2	2	2	1	1
Textures	42	40	38	38	36
porphyrins	53	46	44	44	41
UV Hyperpigmentation	193	170	94	88	82



Right view Synthesis

➤ Sylvie C. : Age : 49, Clear complexion, 10 sessions, Twice a week

LEFT VIEW



PICTURE BEFORE



PICTURE AFTER

RIGHT VIEW



PICTURE BEFORE



PICTURE AFTER

FRONT VIEW



PICTURE BEFORE

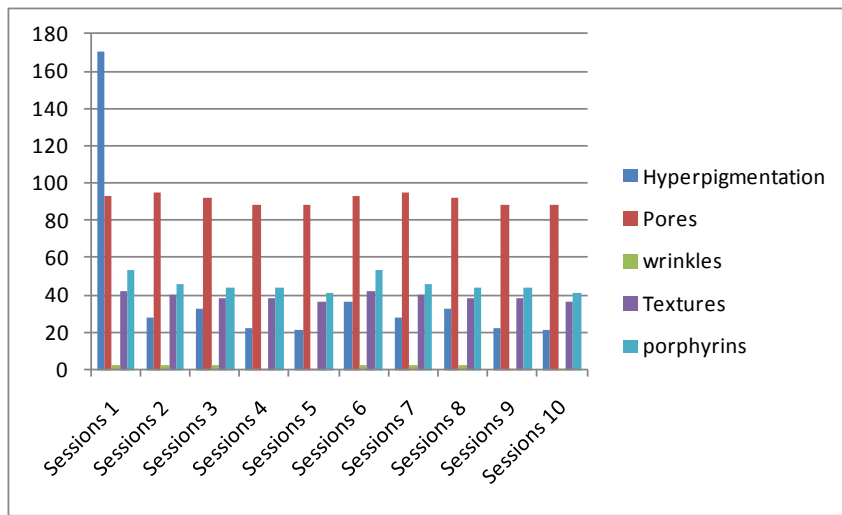


PICTURE AFTER

RESULTS SYNTHESIS

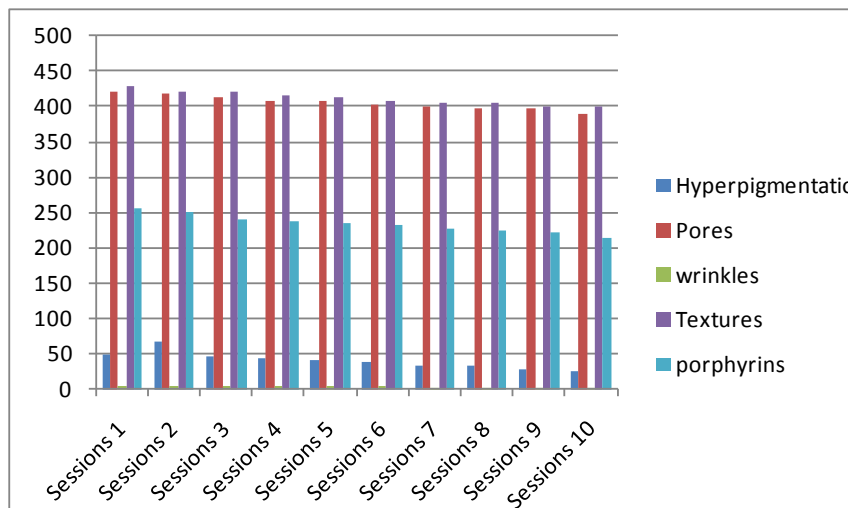
Left view Synthesis

left view	session 1	session 2	session 3	session 4	session 5	session 6	session 7	session 8	session 9	session 10
Hyperpigmentation	170	28	33	22	21	36	28	33	22	21
Pores	93	95	92	88	88	93	95	92	88	88
wrinkles	2	2	2	1	1	2	2	2	1	1
Textures	42	40	38	38	36	42	40	38	38	36
porphyrins	53	46	44	44	41	53	46	44	44	41
UV Hyperpigmentation	193	170	94	88	82	193	170	94	88	82



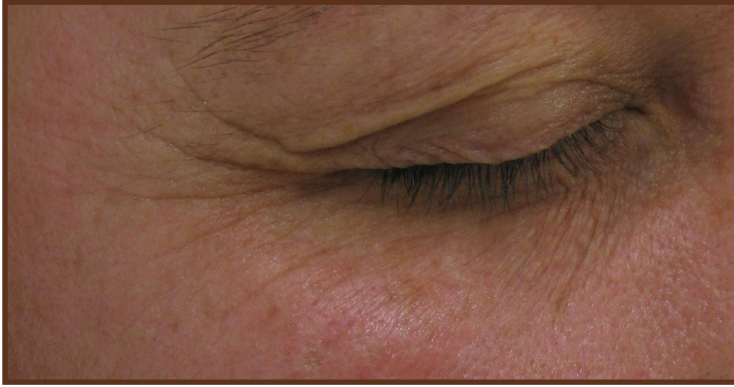
Right view Synthesis

right view	session 1	session 2	session 3	session 4	session 5	session 6	session 7	session 8	session 9	session 10
Hyperpigmentation	50	67	45	44	40	38	34	32	29	26
Pores	421	418	412	409	409	402	400	398	396	390
wrinkles	5	5	5	4	3	3	2	2	2	1
Textures	429	422	420	416	412	409	406	405	401	401
porphyrins	256	250	241	238	236	231	228	225	221	214
UV Hyperpigmentation	240	235	231	224	220	214	216	213	209	201



✂ Pascal C. : Age : 48, Clear complexion, 10 sessions, Twice a week

LEFT VIEW



PICTURE BEFORE



PICTURE AFTER

RIGHT VIEW



PICTURE BEFORE

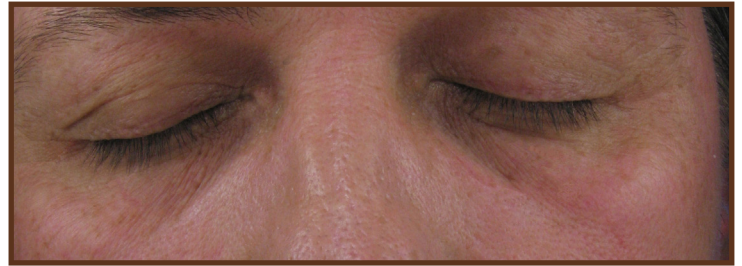


PICTURE AFTER

FRONT VIEW



PICTURE BEFORE

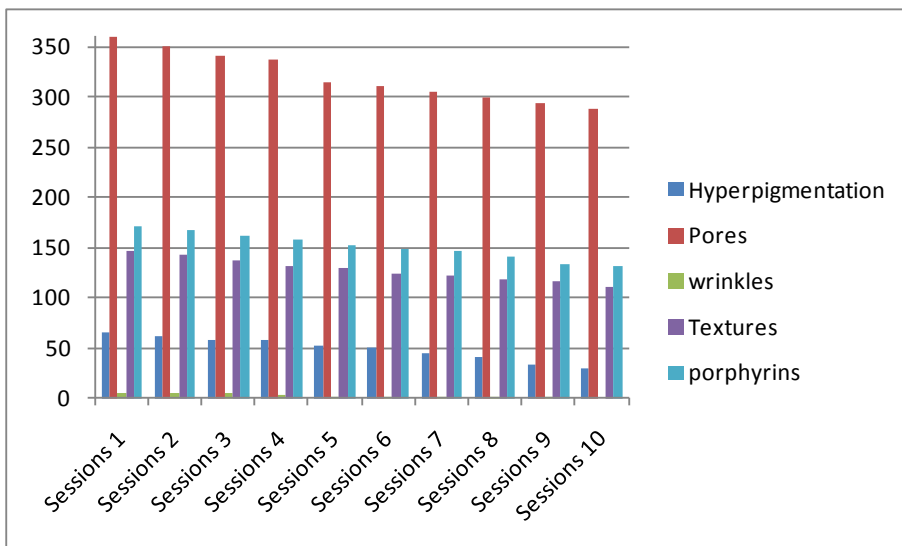


PICTURE AFTER

RESULTS SYNTHESIS

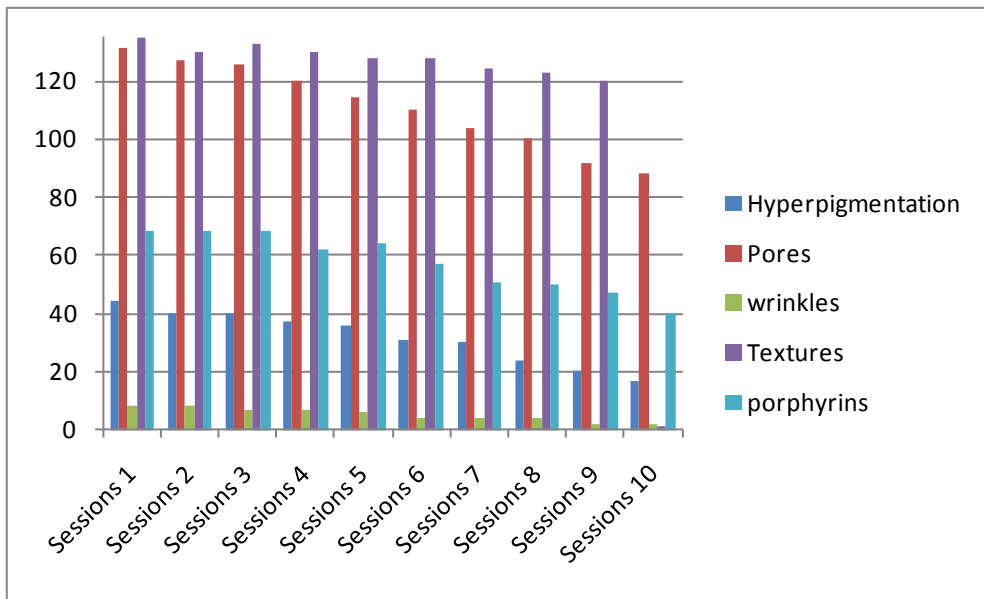
Left view Synthesis

left view	session 1	session 2	session 3	session 4	session 5	session 6	session 7	session 8	session 9	session 10
Hyperpigmentation	66	62	57	57	53	50	45	40	34	30
Pores	366	350	341	337	314	310	304	300	294	287
wrinkles	4	4	4	3	2	2	1	1	1	0
Textures	147	142	137	132	130	124	122	118	116	110
porphyrins	170	167	162	157	152	149	147	140	134	131
UV Hyperpigmentation	143	140	134	132	124	120	114	110	104	97



Right view Synthesis

right view	session 1	session 2	session 3	session 4	session 5	session 6	session 7	session 8	session 9	session 10
Hyperpigmentation	44	40	40	37	36	31	30	24	20	17
Pores	131	127	126	120	114	110	104	100	92	88
wrinkles	8	8	7	7	6	4	4	4	2	2
Textures	135	130	133	130	128	128	124	123	120	1
porphyrins	68	68	68	62	64	57	51	50	47	40
UV Hyperpigmentation	137	134	130	124	120	116	112	110	108	106



➤ Harry O. : Age :19, Clear complexion, 5 sessions : twice a week

LEFT VIEW

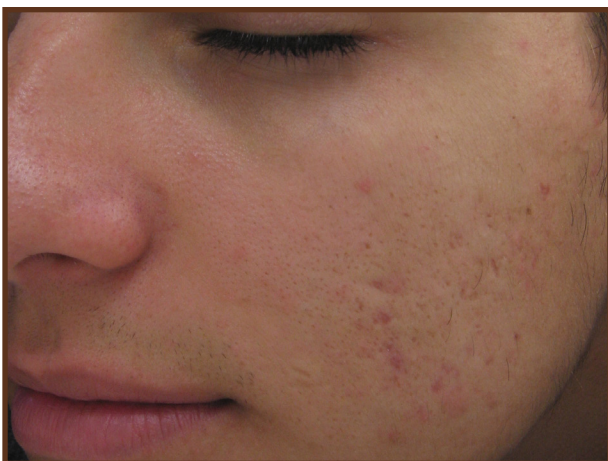


PICTURE BEFORE



PICTURE AFTER

RIGHT VIEW



PICTURE BEFORE



PICTURE AFTER

FRONT VIEW



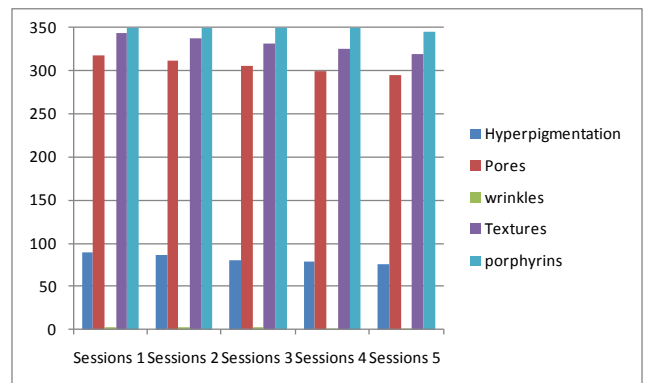
PICTURE BEFORE



PICTURE AFTER

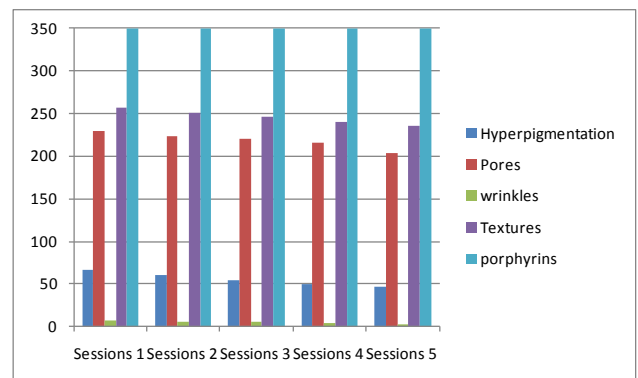
RESULTS SYNTHESIS

left view	session 1	session 2	session 3	session 4	session 5
Hyperpigmentation	90	87	80	78	75
Pores	317	312	306	300	295
wrinkles	2	2	2	1	1
Textures	343	338	332	326	320
porphyrins	366	362	361	351	345
UV Hyperpigmentation	82	74	67	59	52



Left view Synthesis

right view	session 1	session 2	session 3	session 4	session 5
Hyperpigmentation	66	60	54	50	46
Pores	229	224	221	216	204
wrinkles	7	6	6	4	3
Textures	257	251	246	240	235
porphyrins	407	400	382	372	370
UV Hyperpigmentation	50	45	42	39	30



Right view Synthesis