

# **Celliant Blood Flow Studies**

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## **Celliant Blood Flow Studies**

**Objective:** To evaluate changes in peripheral blood flow in the hands and feet of persons with diabetes when Celliant gloves and stockings are worn. We expect that patients that wear the Celliant garments will have an increase in local tissue perfusion compared to baseline and control garments. The study outcomes are transcutaneous oxygen and laser Doppler flowometry measurements over the course of one hour while the study subjects wear Celliant garments and placebo garments.

**Study Design:** This will be a double blind evaluation of changes in peripheral perfusion. Subjects will act as their own controls. We plan to enroll 20 subjects with a history of diabetes and vascular impairment. Subjects will be evaluated for baseline blood flow status. They will then have transcutaneous oxygen (Perimed Inc. North Royalton, Ohio, PF5040 transcutaneous module) and laser Doppler flowometry measurements (PF5010 Laser Doppler Perfusion module) with stockings and gloves made with and without Celliant. Measurements will be made prior to wearing the garments and continuously over a one hour period. We will analyze data at ten minute intervals. The tester and subject will be blinded to the study garment. Garments will be randomly selected and tested from a computer generated randomization list. We will take measurements of both the hand and foot with study subjects wearing Celliant versus standard fiber gloves and stockings.

The diagnosis of diabetes mellitus will be based on World Health Organization criteria.<sup>8</sup> For the purposes of this study, the diagnosis of peripheral vascular disease will be a transcutaneous oxygen measurement > 30mm Hg taken at the transmetatarsal level on the day of enrollment.<sup>5,9</sup>

### **Inclusion Criteria:**

1. Diagnosis of Diabetes Mellitus by the World Health Organization Criteria
2. Patient 18 -80 years old.

Exclusion Criteria:

1. Patient currently being treated by dialysis, or having serum creatinine greater than or equal to 3.0 mg/dl.
2. Patient known to be an active alcohol or substance abuser for the six months prior to the start of the study.
3. Patient currently receiving systemic corticosteroids in a dose equivalent to greater than or equal to 10 mg of prednisone per day.
4. Patient currently receiving immunosuppressive agents.
5. Patient currently receiving radiation therapy.
6. Patient currently receiving cytotoxic agents.
7. Patient currently receiving antiviral agents.
8. Patient having history of widespread malignant or systemically immunocompromising disease.
9. Patient is a female who is breast feeding, pregnant, or attempting to become pregnant.
10. Patient has other conditions considered by the investigator to be sound reasons for disqualification (e.g., acute illness or exacerbation of chronic illness, lack of motivation, and history of poor compliance).
11. Amputation proximal to Lisfranc's (tarsometatarsal) joint or if amputation/surgical debridement has destroyed the venous plexus of the plantar arch.
12. Acute deep venous thrombosis.
13. Active congestive heart failure.
14. Uncontrolled osteomyelitis.
15. Vascular surgery in the past 4 weeks.
16. Patient has a full thickness skin ulcer.

The dynamic non-invasive vascular assessment will consist of transcutaneous oxygen pressure (TcPO<sub>2</sub>) measurement, and laser Doppler flowmetric measurement. We will use the PeriFlux 5000 System. It is a multifunctional system that incorporates four functional units that combine transcutaneous oxygen and laser Doppler function units.

The transcutaneous oxygen electrodes are warmed to 44°C and allowed to equilibrate on the skin for 5 minutes (until stable values are achieved). The resultant values are measured in mmHg.<sup>5,9</sup> The laser Doppler monitor will be used to continuously measure tissue blood perfusion (PF5010 Laser Doppler Perfusion module). The application is non-invasive. Two stick-on probes similar to standard EKG probes are applied to the skin. In the tissue, the laser light is scattered and Doppler shifted by interaction with the moving blood cells according to the well-known Doppler principle. The sampling depth is on the order of 200-500 micrometers. A fraction of the backscattered light is detected by a remotely positioned photo detector.

We will measure transcutaneous oxygen and laser Doppler flowometry measurements continuously during the one hour evaluation period and record values for 60 seconds at ten minute intervals on the dorsum of the foot and hand. In addition, we will measure a two minute interval at the conclusion of each data collection period to compare the change in blood flow parameters in placebo and Celliant treatment groups.

### **Results:**

We used a paired t-test to compare transcutaneous oxygen (TCOM) and laser Doppler (LD) values on the hand and foot. Transcutaneous oxygen measures the partial pressure of oxygen at the surface of the skin, and the laser Doppler measures capillary blood flow. As part of the descriptive evaluation of the data we, stratified TCOM and LD into three levels: increase when comparing Celliant to placebo, no change or a decrease when comparing Celliant to placebo. If there was less than a 4% change when the placebo vs. Celliant was used, this was determined to represent “no change”. TCOM’s in the hand showed 10 subjects with an increase, 4 unchanged and 6 with a decrease when using Celliant compared to the placebo garment. TCOM’s in the foot again showed 10 subjects with an increase when using Celliant, 4 were unchanged and 6 were decreased.

There was a statistically significant change in transcutaneous oxygen or the oxygen delivery to the skin in the hand and foot when using the paired t-test to compare data collected at time periods 40 and 50 minutes after initiation of testing. The Laser Doppler

studies did not show a difference in blood flow in placebo versus Celliant in either the hand or the foot. The significant changes observed are very compelling for this type of product. An 8-12% improvement in skin oxygenation could improve marginal circulation enough to improve wound healing or eliminate ischemic pain of the legs.

### All 10 Minute Interval Data (Paired)

#### Paired T-Test and CI: TCOM HAND-Placebo, TCOM HAND-Celliant

Paired T for TCOM HAND-Placebo - TCOM HAND-Celliant

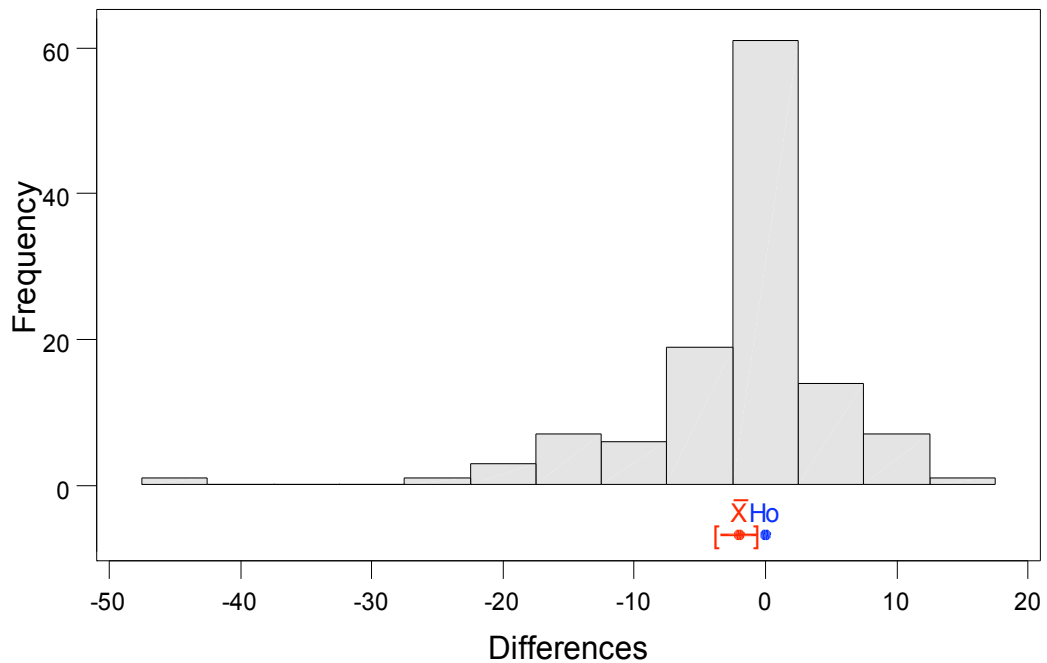
	N	Mean	St Dev	SE Mean
TCOM HAND-Pl	120	15.284	7.613	0.695
TCOM HAND-ho	120	17.323	10.505	0.959
Difference	120	-2.039	7.718	0.705

95% CI for mean difference: (-3.434, -0.644)

T-Test of mean difference = 0 (vs not = 0): T-Value = -2.89 P-Value = 0.005

### Histogram of Differences

(with Ho and 95% t-confidence interval for the mean)



## All 10 Minute Interval Data (Paired)

### Paired T-Test and CI: TCOM FOOT-Placebo, TCOM FOOT-Celliant

Paired T for TCOM FOOT-Placebo - TCOM FOOT-Celliant

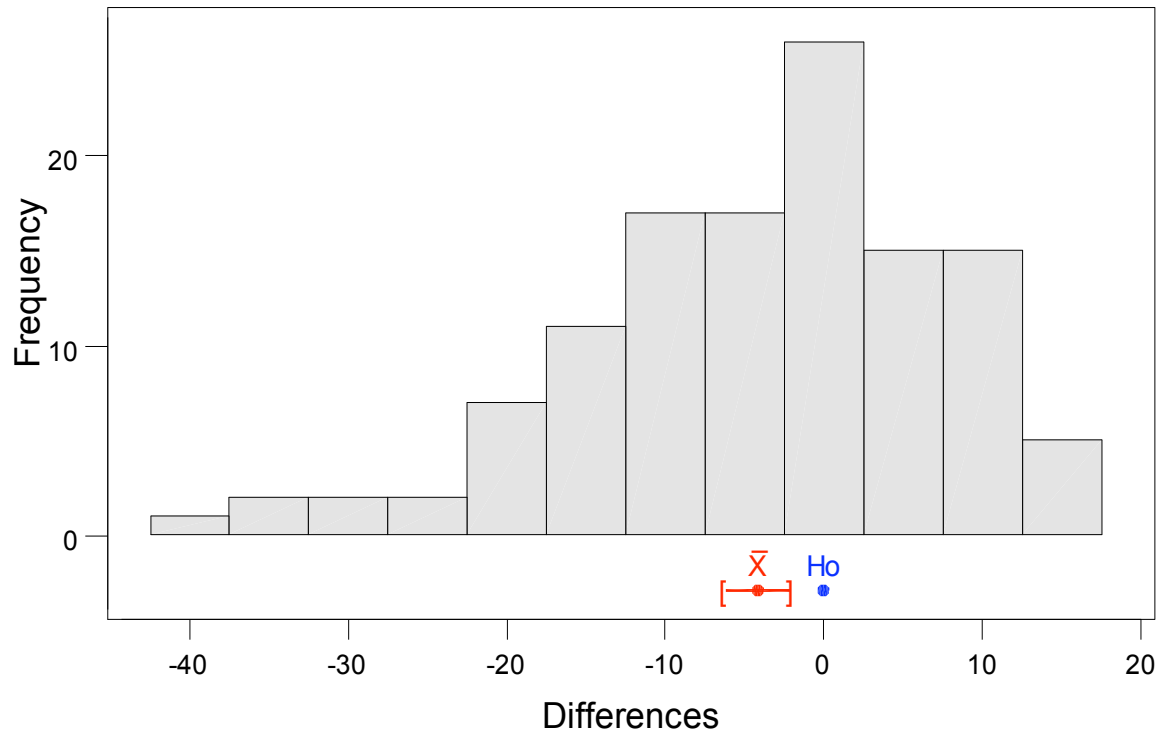
	N	Mean	St Dev	SE Mean
TCOM FOOT-pl	120	52.22	20.39	1.86
TCOM FOOT-ho	120	56.35	20.01	1.83
Difference	120	-4.13	11.25	1.03

95% CI for mean difference: (-6.16, -2.10)

T-Test of mean difference = 0 (vs not = 0): T-Value = -4.02 P-Value = 0.000

## Histogram of Differences

(with Ho and 95% t-confidence interval for the mean)



## All 10 Minute Interval Data (Paired)

### Paired T-Test and CI: LASER HAND-Placebo, LASER HAND-Celliant

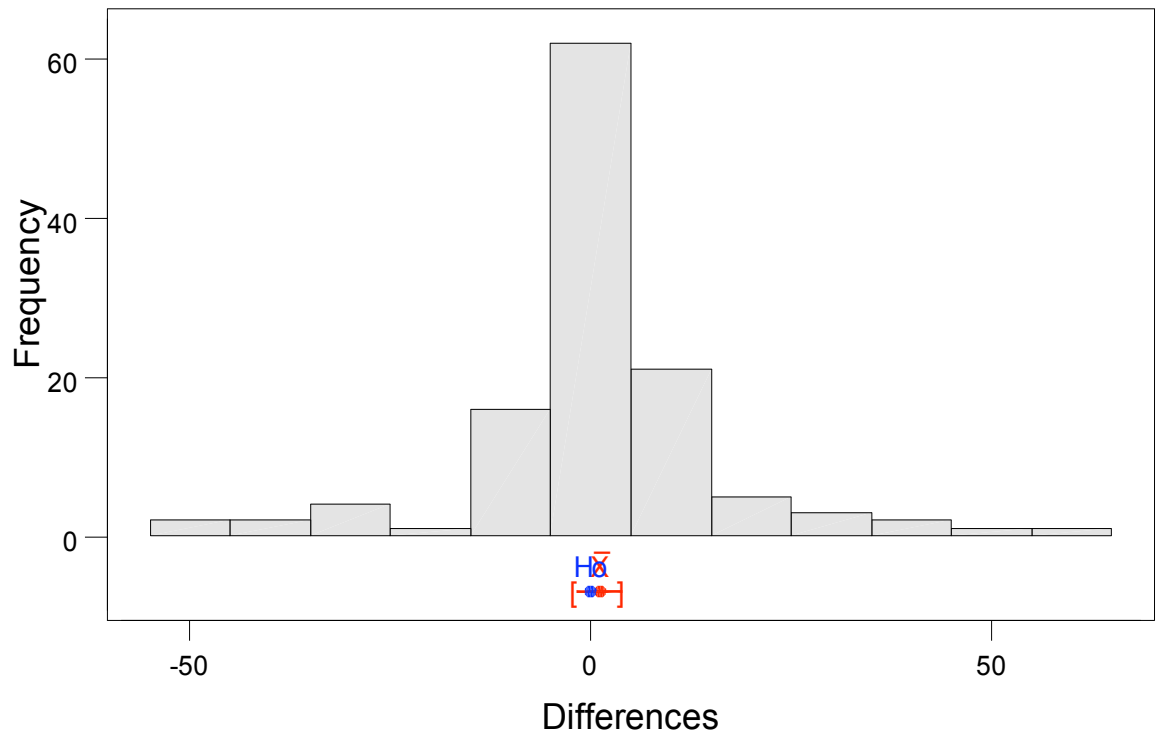
Paired T for LASER HAND-Placebo - LASER HAND-Celliant

	N	Mean	St Dev	SE Mean
LASER HAND-p	120	35.00	28.84	2.63
LASER HAND-h	120	33.91	25.62	2.34
Difference	120	1.09	15.67	1.43

95% CI for mean difference: (-1.74, 3.92)

T-Test of mean difference = 0 (vs. not = 0): T-Value = 0.76 P-Value = 0.447

**Histogram of Differences**  
(with Ho and 95% t-confidence interval for the mean)



## All 10 Minute Interval Data (Paired)

### Paired T-Test and CI: LASER FOOT-Placebo, LASER FOOT-Celliant

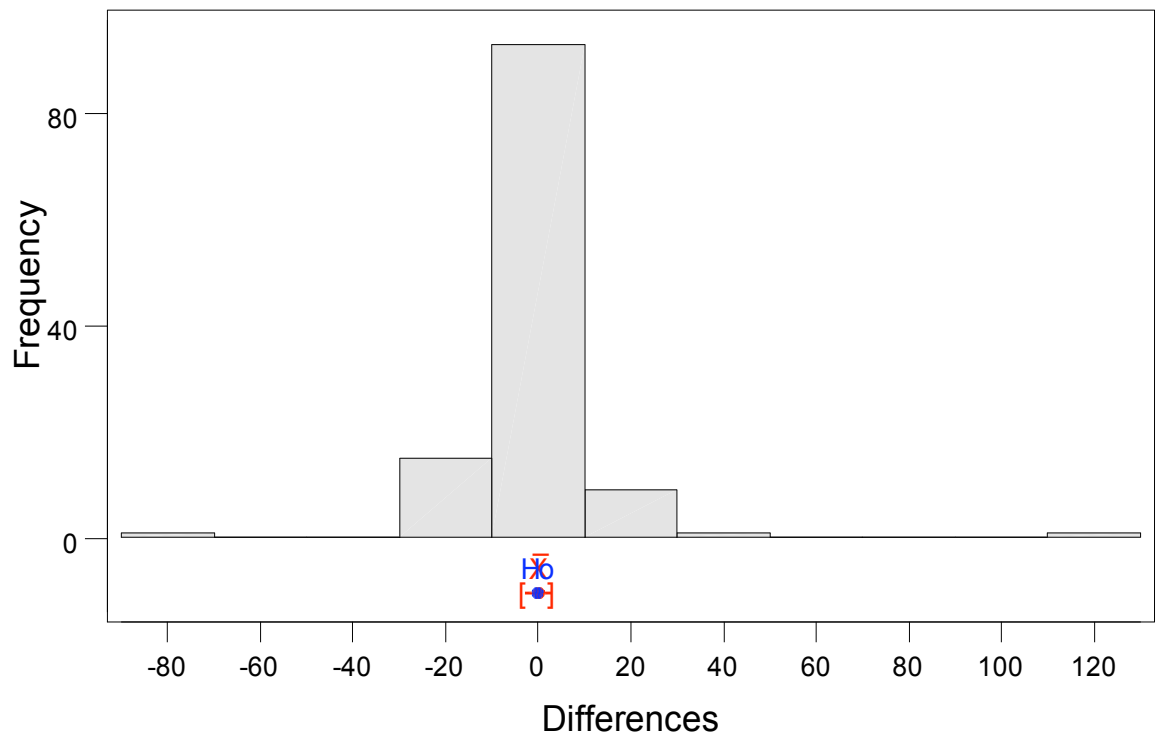
Paired T for LASER FOOT-Placebo - LASER FOOT-Celliant

	N	Mean	St Dev	SE Mean
LASER FOOT-p	120	49.68	21.12	1.93
LASER FOOT-h	120	49.64	19.55	1.78
Difference	120	0.04	15.79	1.44

95% CI for mean difference: (-2.81, 2.90)

T-Test of mean difference = 0 (vs. not = 0): T-Value = 0.03 P-Value = 0.976

**Histogram of Differences**  
(with Ho and 95% t-confidence interval for the mean)





## Last Three Points of 10 Minute Interval Data (Paired)

### Paired T-Test and CI: TCOM HAND-Placebo, TCOM HAND-Celliant

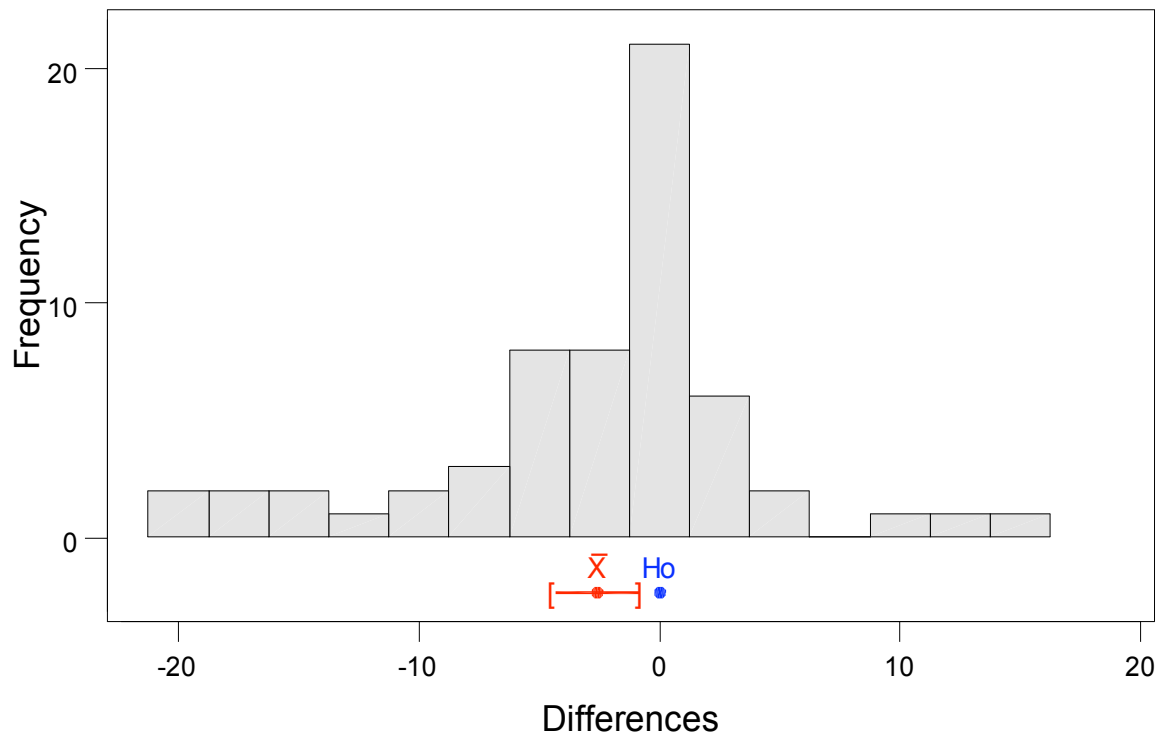
Paired T for TCOM HAND-Placebo - TCOM HAND-Celliant

	N	Mean	St Dev	SE Mean
TCOM HAND-Pl	60	14.62	7.08	0.91
TCOM HAND-ho	60	17.19	9.75	1.26
Difference	60	-2.572	6.784	0.876

95% CI for mean difference: (-4.325, -0.819)

T-Test of mean difference = 0 (vs. not = 0): T-Value = -2.94 P-Value = 0.005

**Histogram of Differences**  
(with Ho and 95% t-confidence interval for the mean)



## Last Three Points of 10 Minute Interval Data (Paired)

### Paired T-Test and CI: TCOM FOOT-Placebo, TCOM FOOT-Celliant

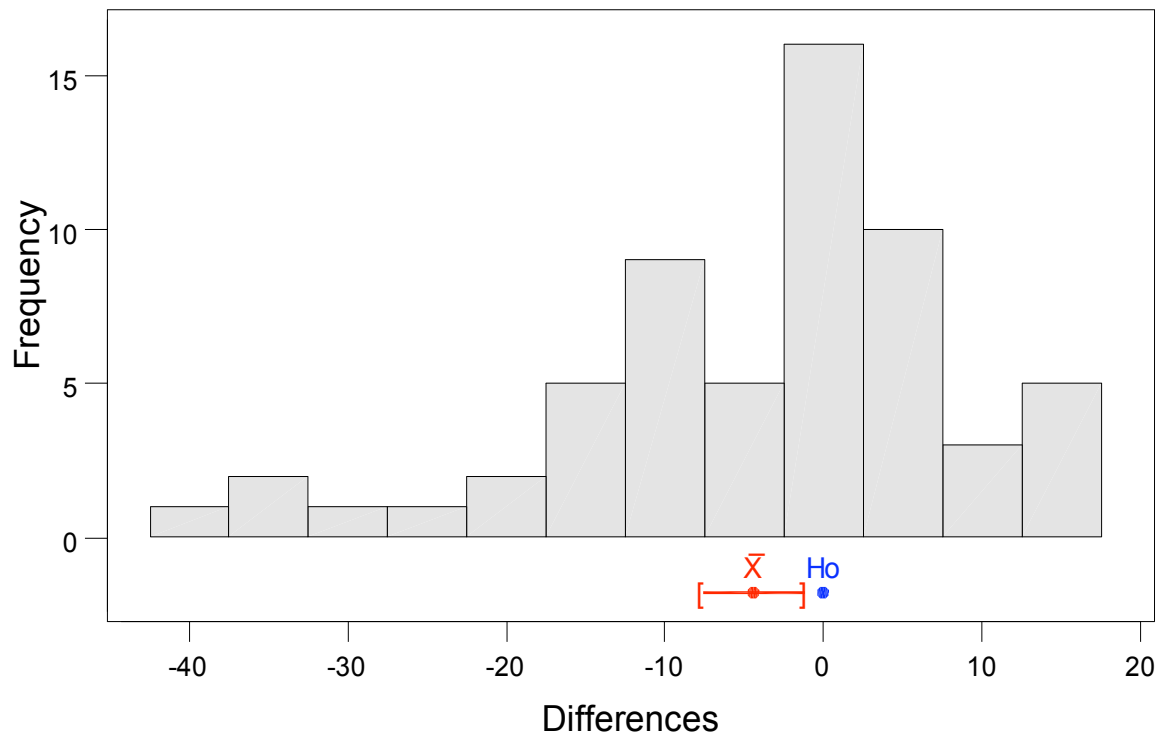
Paired T for TCOM FOOT-Placebo - TCOM FOOT-Celliant

	N	Mean	St Dev	St Dev	SE Mean
TCOM FOOT-pl	60	54.19	19.90	2.57	
TCOM FOOT-ho	60	58.57	21.29	2.75	
Difference	60	-4.38	12.27	1.58	

95% CI for mean difference: (-7.55, -1.21)

T-Test of mean difference = 0 (vs. not = 0): T-Value = -2.76 P-Value = 0.008

**Histogram of Differences**  
(with Ho and 95% t-confidence interval for the mean)



## Last Three Points of 10 Minute Interval Data (Paired)

### Paired T-Test and CI: LASER HAND-Placebo, LASER HAND-Celliant

Paired T for LASER HAND-Placebo - LASER HAND-Celliant

	N	Mean	St Dev	SE Mean
LASER HAND-p	60	33.52	28.32	3.66
LASER HAND-h	60	33.48	25.89	3.34
Difference	60	0.05	15.24	1.97

95% CI for mean difference: (-3.89, 3.98)

T-Test of mean difference = 0 (vs. not = 0): T-Value = 0.02 P-Value = 0.981

### Paired T-Test and CI: LASER FOOT-Placebo, LASER FOOT-Celliant

Paired T for LASER FOOT-Placebo - LASER FOOT-Celliant

	N	Mean	St Dev	SE Mean
LASER FOOT-p	60	49.90	19.48	2.51
LASER FOOT-h	60	51.56	21.49	2.77
Difference	60	-1.65	14.80	1.91

95% CI for mean difference: (-5.48, 2.17)

T-Test of mean difference = 0 (vs. not = 0): T-Value = -0.86 P-Value = 0.391

## Last Point of 10 Minute Interval Data (Paired)

### Paired T-Test and CI: TCOM HAND-Placebo, TCOM HAND-Celliant

Paired T for TCOM HAND-Placebo - TCOM HAND-Celliant

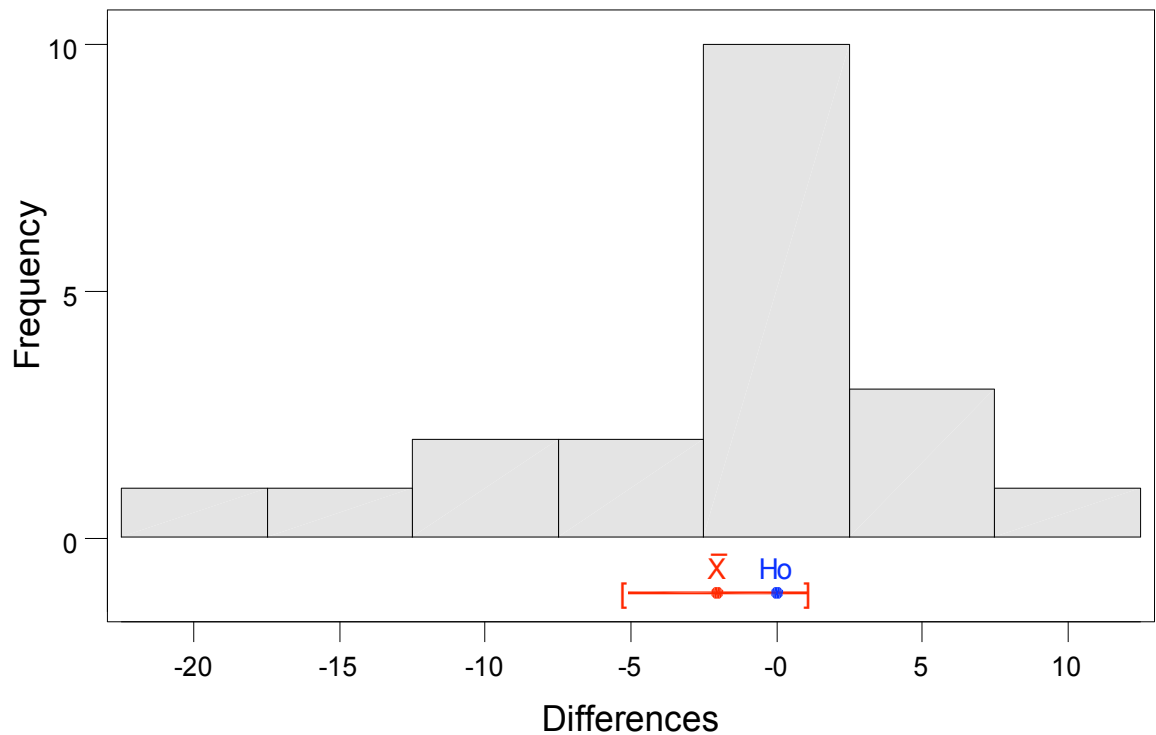
	N	Mean	St Dev	SE Mean
TCOM HAND-Pl	20	15.15	8.08	1.81
TCOM HAND-ho	20	17.17	10.17	2.28
Difference	20	-2.02	6.60	1.48

95% CI for mean difference: (-5.11, 1.07)

T-Test of mean difference = 0 (vs. not = 0): T-Value = -1.37 P-Value = 0.187

## Histogram of Differences

(with Ho and 95% t-confidence interval for the mean)



## Last Point of 10 Minute Interval Data (Paired)

### Paired T-Test and CI: TCOM FOOT-Placebo, TCOM FOOT-Celliant

Paired T for TCOM FOOT-Placebo - TCOM FOOT-Celliant

	N	Mean	S Dev	SE Mean
TCOM FOOT-pl	20	55.42	20.54	4.59
TCOM FOOT-ho	20	59.48	21.65	4.84
Difference	20	-4.05	11.61	2.60

95% CI for mean difference: (-9.49, 1.38)

T-Test of mean difference = 0 (vs. not = 0): T-Value = -1.56 P-Value = 0.135

### Paired T-Test and CI: LASER HAND-Placebo, LASER HAND-Celliant

Paired T for LASER HAND-Placebo - LASER HAND-Celliant

	N	Mean	St Dev	SE Mean
LASER HAND-p	20	33.87	26.02	5.82
LASER HAND-h	20	33.69	27.39	6.13
Difference	20	0.18	15.89	3.55

95% CI for mean difference: (-7.26, 7.62)

T-Test of mean difference = 0 (vs. not = 0): T-Value = 0.05 P-Value = 0.960

### Paired T-Test and CI: LASER FOOT-Placebo, LASER FOOT-Celliant

Paired T for LASER FOOT-Placebo - LASER FOOT-Celliant

	N	Mean	St Dev	SE Mean
LASER FOOT-p	20	52.52	22.57	5.05
LASER FOOT-h	20	54.97	27.41	6.13
Difference	20	-2.45	24.05	5.38

95% CI for mean difference: (-13.70, 8.80)

T-Test of mean difference = 0 (vs. not = 0): T-Value = -0.46 P-Value = 0.654

## 1<sup>st</sup> Half to 2<sup>nd</sup> Half of Test

### Paired T-Test and CI: 1 Celliant-TCOM Hand, 2 Celliant-TCOM Hand

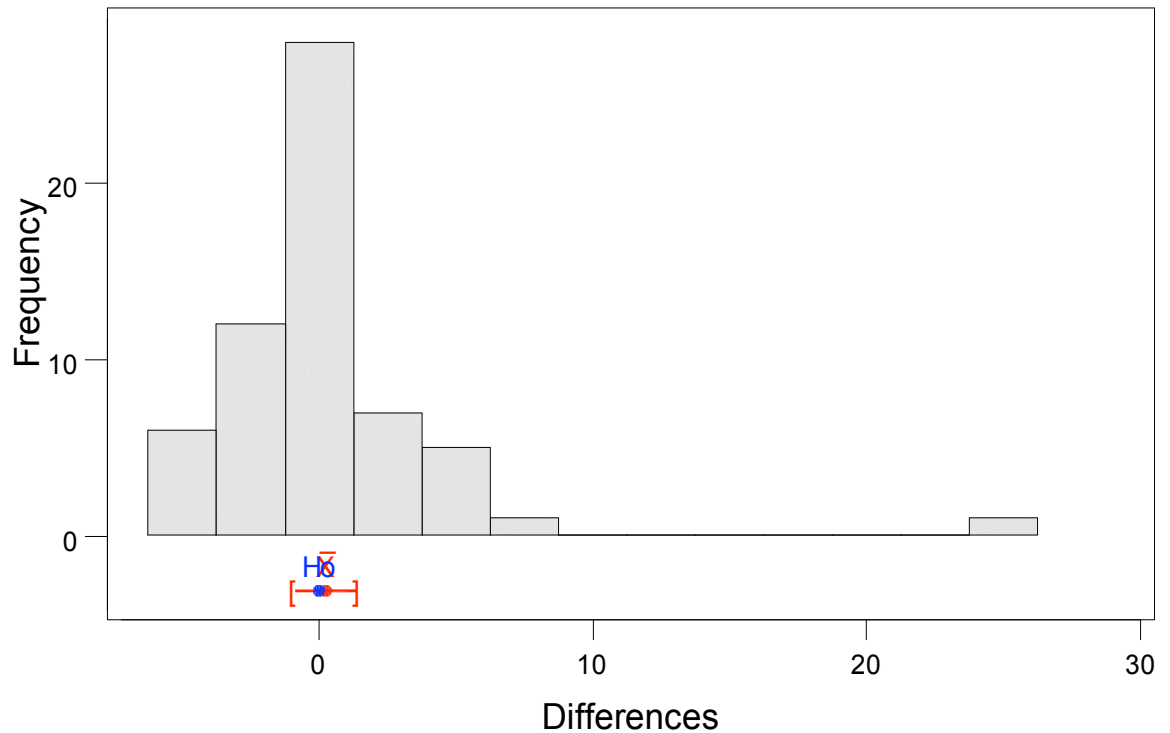
Paired T for 1 Celliant-TCOM Hand - 2 Celliant-TCOM Hand

	N	Mean	St Dev	SE Mean
1 Celliant-TCOM	60	17.45	11.29	1.46
2 Celliant-TCOM	60	17.19	9.75	1.26
Difference	60	0.256	4.321	0.558

95% CI for mean difference: (-0.860, 1.372)

T-Test of mean difference = 0 (vs. not = 0): T-Value = 0.46 P-Value = 0.648

**Histogram of Differences**  
(with Ho and 95% t-confidence interval for the mean)



## 1<sup>st</sup> Half to 2<sup>nd</sup> Half of Test

### Paired T-Test and CI: 1 Celliant-TCOM Foot, 2 Celliant-TCOM Foot

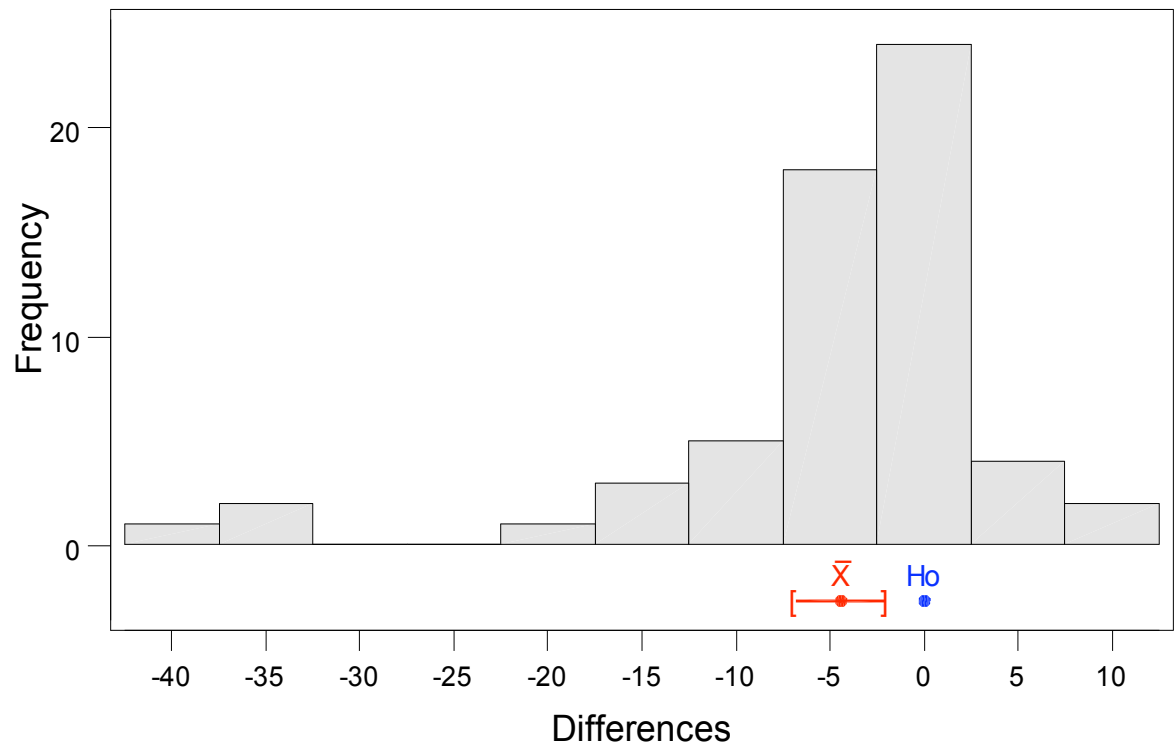
Paired T for 1 Celliant-TCOM Foot - 2 Celliant-TCOM Foot

	N	Mean	St Dev	SE Mean
1 Celliant-TCOM	60	54.14	18.55	2.39
2 Celliant-TCOM	60	58.57	21.29	2.75
Difference	60	-4.43	9.14	1.18

95% CI for mean difference: (-6.79, -2.07)

T-Test of mean difference = 0 (vs. not = 0): T-Value = -3.76 P-Value = 0.000

**Histogram of Differences**  
(with Ho and 95% t-confidence interval for the mean)



## 1<sup>st</sup> Half to 2<sup>nd</sup> Half of Test

### Paired T-Test and CI: 1 Placebo-TCOM Hand, 2 Placebo-TCOM Hand

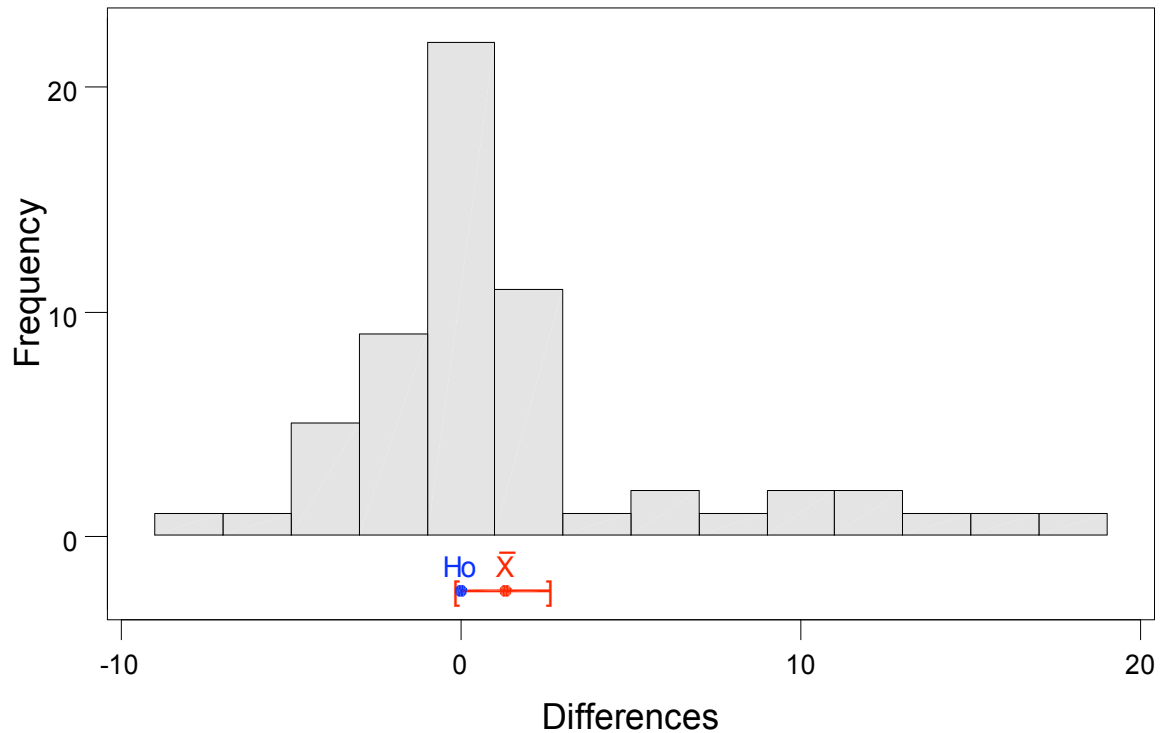
Paired T for 1 Placebo-TCOM Hand - 2 Placebo-TCOM Hand

	N	Mean	St Dev	SE Mean
1 Placebo -TC	60	15.94	8.12	1.05
2 Placebo -TC	60	14.62	7.08	0.91
Difference	60	1.322	5.102	0.659

95% CI for mean difference: (0.004, 2.640)

T-Test of mean difference = 0 (vs. not = 0): T-Value = 2.01 P-Value = 0.049

**Histogram of Differences**  
(with Ho and 95% t-confidence interval for the mean)





## 1<sup>st</sup> Half to 2<sup>nd</sup> Half of Test

### Paired T-Test and CI: 1 Placebo-TCOM Foot, 2 Placebo-TCOM Foot

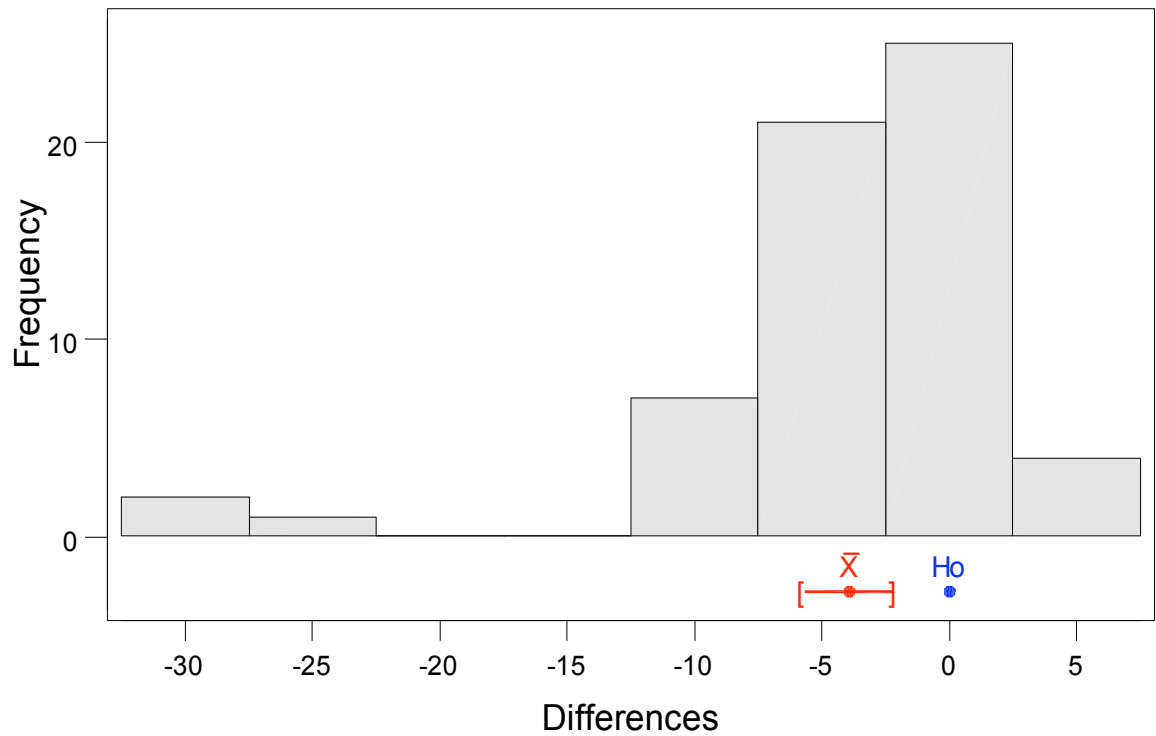
Paired T for 1 Placebo-TCOM Foot - 2 Placebo-TCOM Foot

	N	Mean	St Dev	SE Mean
1 Placebo-TC	60	50.26	20.85	2.69
2 Placebo-TC	60	54.19	19.90	2.57
Difference	60	-3.930	6.726	0.868

95% CI for mean difference: (-5.668, -2.192)

T-Test of mean difference = 0 (vs. not = 0): T-Value = -4.53 P-Value = 0.000

Histogram of Differences  
(with Ho and 95% t-confidence interval for the mean)



## Last Two Points 10 Minute Interval Data (Paired)

### Paired T-Test and CI: Placebo-TCOM Hand, Celliant-TCOM Hand

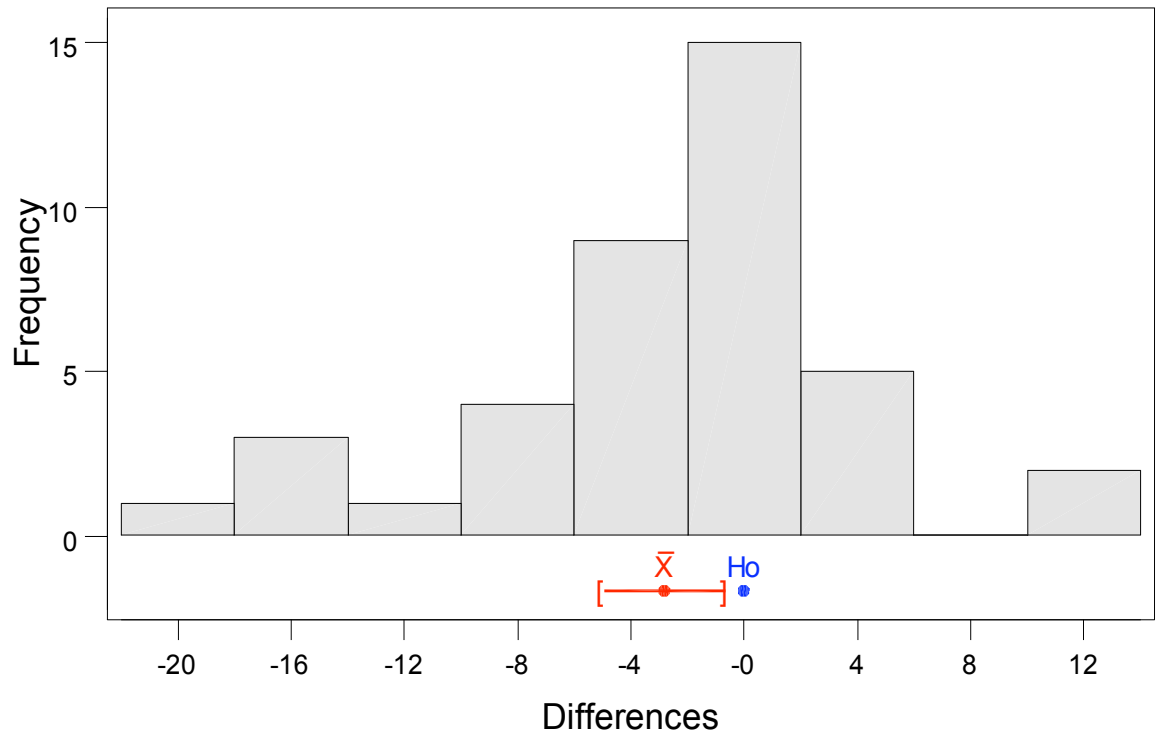
Paired T for Placebo-TCOM Hand - Celliant-TCOM Hand

	N	Mean	St Dev	SE Mean
Placebo-TCOM	40	14.68	7.32	1.16
Celliant-TCOM Ha	40	17.49	9.91	1.57
Difference	40	-2.82	6.67	1.05

95% CI for mean difference: (-4.95, -0.68)

T-Test of mean difference = 0 (vs. not = 0): T-Value = -2.67 P-Value = 0.011

**Histogram of Differences**  
(with Ho and 95% t-confidence interval for the mean)



## Last Two Points 10 Minute Interval Data (Paired)

### Paired T-Test and CI: Placebo-TCOM Foot, Celliant-TCOM Foot

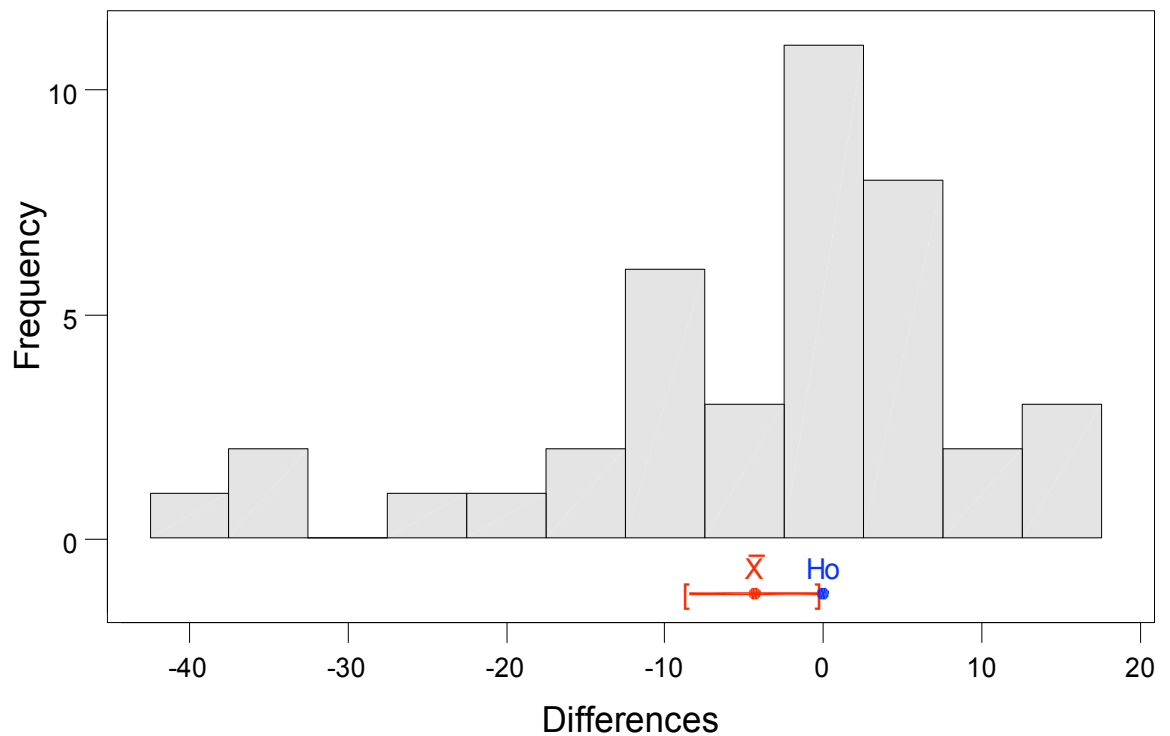
Paired T for Placebo-TCOM Foot - Celliant-TCOM Foot

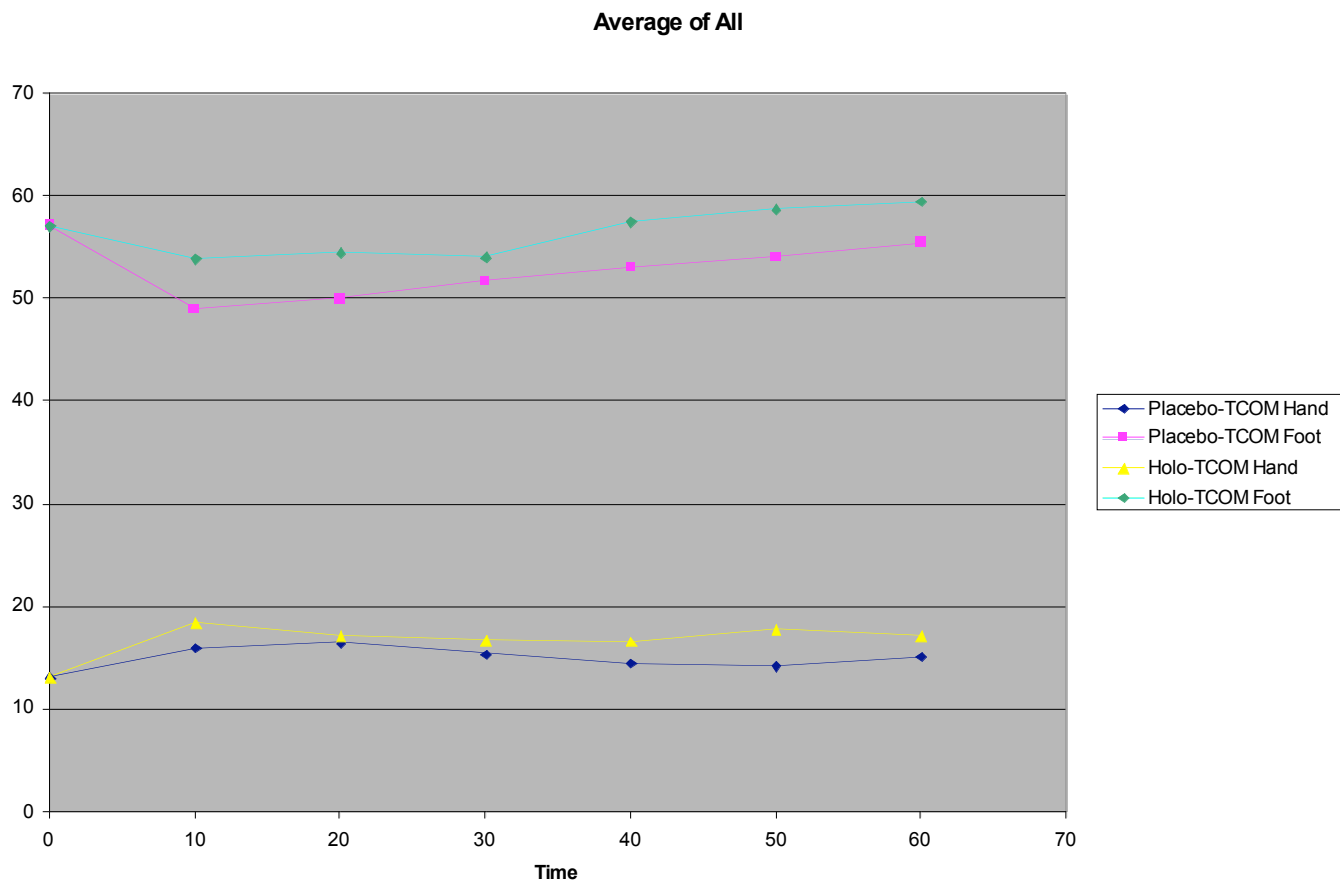
	N	Mean	St Dev	SE Mean
Placebo-TCOM	40	54.76	19.92	3.15
Celliant-TCOM	40	59.10	21.02	3.32
Difference	40	-4.33	12.85	2.03

95% CI for mean difference: (-8.44, -0.22)

T-Test of mean difference = 0 (vs. not = 0): T-Value = -2.13 P-Value = 0.039

Histogram of Differences  
(with Ho and 95% t-confidence interval for the mean)





**Limitations:** This preliminary study provides some insight into the potential for Celliant. This project should be considered as a pilot project to build on. Prior to beginning the project we had little scientific information about the effect that Celliant might have on perfusion to the extremities. There is obviously a lot that we still do not understand about Celliant and the best way to optimize its use.

**Patient selection:** We enrolled diabetic males with an abnormal clinical vascular examination. Our results may have been better if we included patients with more severe vascular impairment. The subjects that may benefit the most may be diabetics with very severe disease, patients with Raynaud’s disease, or peripheral arterial occlusive disease.

For instance, in the future we may want to include patients with baseline transcutaneous oxygen values less than 20 or 30 mm Hg.

**Duration of the evaluation:** The study period for this project was one hour. This may not have been a long enough period to observe the greatest impact of the product. Several of the patients that have voiced strong subjective improvement related their symptoms did not change until they wore the garment for more than an hour.

**Wash out period:** It is unclear if a “wash out” period was needed for subjects that were treated with the Celliant and subsequently were treated with the placebo garments. This would suggest that there was a lasting effect of the Celliant material. The current analysis did not indicate there was a trend to support this theory.

**Light Exposure:** Since one of the theories regarding the mechanism of action of Celliant involves infrared light, Celliant may be more effective when the patient is exposed to natural light during the evaluation period. The current study was conducted in a room without any exposure to natural light.

**Recommendations:** The pilot data is compelling. I am very optimistic that we could pursue additional funding through the National Institute of Health. Probably the best bet would be to apply for a Technology Transfer Grant or through an award from the Alternative Medicine Institute of the NIH.

Future research should focus on the target markets for this product. In addition, we should identify the mechanism of action of Celliant, if that is possible. Initially, I would build on the data from the current project and focus on vascular improvement and subjective improvement in persons with diabetes mellitus. My recommendations would be to expand the scope of the pilot study. We should expand the study population and evaluate specific “risk groups” within the diabetic population that would benefit from the product such as dialysis patients. We need to evaluate patients after they wear Celliant over the course of hours days or weeks. We should measure vascular parameters as well

as subjective improvement in functional status, sleep habits, and perhaps even glucose control. A long term, multi-million dollar project would evaluate if Celliant helps to prevent lower extremity complications such as ulceration, gangrene, and amputation in high-risk persons with diabetes. This type of outcome would be better than discovering penicillin.

The athletic market probably has the most potential. There are a number of sports activities and levels of competition that we could evaluate. In general, we should focus on measuring improvement in performance in athletes that use Celliant. I would additionally evaluate subject responses from athletes after using the product, but every shoe company has a celebrity spokesman that loves the product. I know it is a cliché from the 60's, but if we can show that Celliant helps you run faster and jump higher (like PF Flyers) you will not be able to keep it on the shelf.

Performance outcomes are easy to measure. We can measure changes in speed, jumping, weight lifting, rowing, cycling or a number of other athletic endeavors. The easiest approach would be to conduct a classic randomized clinical trial and evaluate two groups of athletes that use Celliant or placebo garments. We could evaluate military recruits, high school, college or professional athletes. Another approach would be to use subjects as their own control and measure pre versus post Celliant athletic performance. We could relatively easily evaluate if exposure to the product in the course of a few hours, improves a specific athletic event like weight lifting or the time to run 2 miles.

Funding for these types of projects will be harder to obtain. The NIH's focus is on disease states. We would also need pilot data that supports the hypothesis of our athletic performance research in order to obtain advanced funding.

Is there any evidence that Celliant improves sleep patterns? This could be measured from subjective patient feedback using a pre – post evaluation of Celliant pajamas and sheets. A more expensive approach would be to measure sleep patterns in a sleep lab. The laboratory approach will be more objective and more expensive. Objective data of

enhanced REM sleep and other sleep parameters would attract significant attention to the product.

There are a number of areas and questions that we could pursue.

1. Does Celliant improve in persons with diabetes?

Does Celliant improve blood flow in diabetics?

Does Celliant improve pain-free walking in diabetic with intermittent claudication?

Does Celliant improve wound healing in venous stasis ulcers, diabetic neuropathic ulcers, and ischemic ulcers?

Transcutaneous  
measurement of  
the foot

id no.	Order of treatment	mean	mean	Percentage change	Change with Celliant
		values	values		
121	placebo - Celliant	14.48	27.39	89.07	increase
119	placebo - Celliant	78.74	70.92	-9.93	decrease
118	placebo - Celliant	20.3	43.9	116.3	increase
116	placebo - Celliant	82.35	92.58	12.42	increase
113	placebo - Celliant	45.76	52.44	14.61	increase
112	placebo - Celliant	57.88	60.65	4.79	increase
102	placebo - Celliant	54.65	50.82	-7	decrease
104	placebo - Celliant	65.5	57.96	-11.52	decrease
105	placebo - Celliant	68.51	106.61	55.61	increase
109	placebo - Celliant	91.73	85.74	-6.53	decrease
106	placebo - Celliant	35.79	23.17	-35.25	decrease
107	Celliant - placebo	53.42	37.5	29.8	increase
108	Celliant - placebo	55.63	53.63	3.59	no change
101	Celliant - placebo	54.34	55.82	-2.72	no change
110	Celliant - placebo	92.91	81.88	11.86	increase
111	Celliant - placebo	57.53	48	16.58	increase
114	Celliant - placebo	60.69	62.37	-2.77	no change
115	Celliant - placebo	55.1	57.75	-4.81	decrease
117	Celliant - placebo	44.28	40.93	7.56	increase
120	Celliant - placebo	51.06	51.92	-1.69	no change



Transcutaneous measurement of the hand					
id no.	Order of treatment	mean values	mean values	Percentage change	Change with Celliant
121	placebo - Celliant	14.82	12.63	-14.81	decrease
119	placebo - Celliant	21.19	31.45	48.4	increase
118	placebo - Celliant	32.5	42.77	31.61	increase
116	placebo - Celliant	5.91	5.98	1.23	no change
113	placebo - Celliant	13.63	14.35	5.34	decrease
112	placebo - Celliant	14.72	15.04	2.18	no change
102	placebo - Celliant	9.51	13.33	40.22	increase
104	placebo - Celliant	11.19	9.95	-11.08	decrease
105	placebo - Celliant	7.28	9.31	27.91	increase
109	placebo - Celliant	11.64	11.95	2.69	no change
106	placebo - Celliant	5.57	7.86	41.18	increase
107	Celliant - placebo	5.64	4.36	22.69	increase
108	Celliant - placebo	16.18	14.6	9.73	increase
101	Celliant - placebo	19.91	14.46	27.36	increase
110	Celliant - placebo	9.56	9.64	-0.89	no change
111	Celliant - placebo	32.73	17.34	47.02	increase
114	Celliant - placebo	22.13	28.45	-28.53	decrease
115	Celliant - placebo	14.58	29.75	-104.02	decrease
117	Celliant - placebo	25.59	12.93	49.47	increase
120	Celliant - placebo	25.81	27.42	-6.27	decrease

id no.	Order of treatment	Laser doppler of the hand		percentage change	Change with Celliant
		mean values	mean values		
121	placebo - Celliant	33.81	43.19	27.74	increase
119	placebo - Celliant	84.94	69.28	-18.44	decrease
118	placebo - Celliant	46.02	46.49	1.03	no change
116	placebo - Celliant	51.9	30.88	-40.51	decrease
113	placebo - Celliant	20.18	14.83	-26.5	decrease
112	placebo - Celliant	26.66	29.35	10.08	increase
102	placebo - Celliant	34.82	46.63	33.93	increase
104	placebo - Celliant	27.83	29.44	5.8	increase
105	placebo - Celliant	18.17	13.44	-26.03	decrease
109	placebo - Celliant	15.75	15.22	-3.33	no change
106	Celliant	6.6	5.5	-16.6	increase
107	Celliant - placebo	12.64	19.07	-50.93	decrease
108	Celliant - placebo	12.96	18.07	-39.48	decrease
101	Celliant - placebo	15.52	22.87	-47.4	decrease
110	Celliant - placebo	11.47	17.05	-48.7	decrease
111	Celliant - placebo	24.55	22.46	8.52	increase
114	Celliant - placebo	105.44	104.88	0.53	no change
115	Celliant - placebo	93.59	23.89	74.47	increase
117	Celliant - placebo	62.58	75.88	-21.25	decrease
120	Celliant - placebo	33.81	43.19	-27.74	decrease

Laser doppler of the foot					
Id no.	Order of treatment	mean values	mean values	Percentage change	Change with Celliant
121	placebo - Celliant	47.9	60.84	27.01	increase
119	placebo - Celliant	84.28	75.54	-10.37	decrease
118	placebo - Celliant	53.29	62.79	17.84	increase
116	placebo - Celliant	2.71	5.57	105.29	increase
113	placebo - Celliant	63.47	64.87	2.2	no change
112	placebo - Celliant	63.47	64.87	2.2	no change
102	placebo - Celliant	50.23	140.23	179.18	increase
104	placebo - Celliant	65.84	63.16	-4.08	no change
105	placebo - Celliant	56.78	61.78	8.79	increase
109	placebo - Celliant	49.26	50.22	1.96	increase
106	placebo - Celliant	61.37	57.53	-6.25	decrease
107	Celliant - placebo	59.35	63.08	-6.27	decrease
108	Celliant - placebo	57.21	79.87	-39.61	decrease
101	Celliant - placebo	49.06	45.84	6.55	increase
110	Celliant - placebo	40.44	43.57	-7.73	decrease
111	Celliant - placebo	31.69	32.89	-3.81	no change
114	Celliant - placebo	59.05	62.31	-5.52	decrease
115	Celliant - placebo	58	59.67	-2.87	no change
117	Celliant - placebo	4.31	2.3	46.72	increase
120	Celliant - placebo	46.13	52.08	-12.89	decrease

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Patient ID: 101	Celliant - placebo			
<b>BASELINE</b>	<b>TCOM HAND</b>	<b>LASER HAND</b>	<b>TCOM FOOT</b>	<b>LASER FOOT</b>
Mean value (Unit)	24.52	16.82	55.6	49.82
Standard Deviation (Unit)	3.57	6.9	0.48	0.29
Standard Error (Unit)	0.13	0.24	0.02	0.01
Area under curve (Unit*sec.)	1228.34	842.67	2785.16	2495.65
<b>10 MINUTES CELLIANT</b>				
Mean value (Unit)	19.89	13.29	54.6	44.08
Standard Deviation (Unit)	3.24	3.48	1.36	0.34
Standard Error (Unit)	0.11	0.12	0.05	0.01
Area under curve (Unit*sec.)	994.9	664.9	2731.59	2205.26
<b>20M MINUTES CELLIANT</b>				
Mean value (Unit)	17.93	12.42	53.86	44.25
Standard Deviation (Unit)	7.33	1.97	1.22	0.87
Standard Error (Unit)	0.26	0.07	0.04	0.03
Area under curve (Unit*sec.)	899.19	622.89	2701.65	2219.58
<b>30 MINUTES CELLIANT</b>				
Mean value (Unit)	16.01	13.11	55.61	48.34
Standard Deviation (Unit)	3.63	3.99	1.86	0.32
Standard Error (Unit)	0.13	0.14	0.07	0.01
Area under curve (Unit*sec.)	794.3	650.01	2758.62	2397.88
<b>40 MINUTYES CELLIANT</b>				
Mean value (Unit)	20.84	12.41	50.05	46.7
Standard Deviation (Unit)	4.55	1.68	1.05	0.21
Standard Error (Unit)	0.16	0.06	0.04	0.01
Area under curve (Unit*sec.)	1032.44	615.01	2479.3	2313.27
<b>50 MINUTES CELLIANT</b>				
Mean value (Unit)	23.19	15.32	51.7	49.39
Standard Deviation (Unit)	3.51	13.77	0.98	0.5
Standard Error (Unit)	0.12	0.48	0.03	0.02
Area under curve (Unit*sec.)	1157.26	764.74	2580.38	2464.88
<b>60 MINUTES CELLIANT</b>	<b>TCOM HAND</b>	<b>LASER HAND</b>	<b>TCOM FOOT</b>	<b>LASER FOOT</b>
Mean value (Unit)	18.76	12.15	54.42	46.87
Standard Deviation (Unit)	4.06	1.84	1.52	0.48
Standard Error (Unit)	0.14	0.06	0.05	0.02
Area under curve (Unit*sec.)	948.83	614.15	2752.92	2371.13
<b>10 MINUTES PLACEBO</b>				
Mean value (Unit)	17.96	16.39	48.23	48.87
Standard Deviation (Unit)	6	4.72	1.01	0.43
Standard Error (Unit)	0.22	0.17	0.04	0.02
Area under curve (Unit*sec.)	876.49	800.13	2353.08	2384.35
<b>20 MINUTES PLACEBO</b>				
Mean value (Unit)	16.23	14.01	50.2	43.88
Standard Deviation (Unit)	2.58	1.66	1.43	0.55

Standard Error (Unit)	0.09	0.06	0.05	0.02
Area under curve (Unit*sec.)	821.9	709.8	2542.56	2222.42
30 MINUTES PLACEBO				
Mean value (Unit)	17.15	14.56	56.02	46.79
Standard Deviation (Unit)	2.84	2.43	2.03	0.52
Standard Error (Unit)	0.1	0.09	0.07	0.02
Area under curve (Unit*sec.)	859.03	729.36	2805.87	2343.65
40 MINUTES PLACEBO				
Mean value (Unit)	16.14	13.25	52.87	45.3
Standard Deviation (Unit)	3.11	2.62	0.59	0.69
Standard Error (Unit)	0.11	0.09	0.02	0.02
Area under curve (Unit*sec.)	809.73	664.6	2651.61	2272.11
50 MINUTES PLACEBO				
Mean value (Unit)	15.44	14.36	60.51	58.32
Standard Deviation (Unit)	4.63	2.19	0.95	1.29
Standard Error (Unit)	0.17	0.08	0.03	0.05
Area under curve (Unit*sec.)	775.33	721.12	3038.74	2928.89
60 MINUTES PLACEBO				
Mean value (Unit)	16.08	22.06	55.53	48.87
Standard Deviation (Unit)	7.18	15.94	1.14	2.56
Standard Error (Unit)	0.26	0.57	0.04	0.09
Area under curve (Unit*sec.)	803.07	1100.69	2771.29	2439.26

Patient ID: 102	placebo-Celliant			
	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
<b>BASELINE</b>				
Mean value (Unit)	8.66	45.65	55.22	40.67
Standard Deviation (Unit)	2.72	4.5	0.86	0.38
Standard Error (Unit)	0.1	0.16	0.03	0.01
Area under curve (Unit*sec.)	438.71	2312.2	2797.32	2059.9
<b>10 MINUTE PLACEBO</b>				
Mean value (Unit)	10.27	40.1	5.75	37.56
Standard Deviation (Unit)	3.28	6.94	0.96	0.44
Standard Error (Unit)	0.08	0.17	0.02	0.01
<b>20 MINUTE PLACEBO</b>				
Mean value (Unit)	10.15	36.71	22.45	40.96
Standard Deviation (Unit)	2.82	6.14	0.62	0.26
Standard Error (Unit)	0.1	0.22	0.02	0.01
Area under curve (Unit*sec.)	501.22	1813.7	1109.29	2023.98
<b>30 MINUTE PLACEBO</b>				
Mean value (Unit)	10.13	36.2	30.28	41.9
Standard Deviation (Unit)	3.92	3.14	0.83	0.75
Standard Error (Unit)	0.14	0.11	0.03	0.03
Area under curve (Unit*sec.)	514.53	1837.85	1537.66	2127.42
<b>40 MINUTE PLACEBO</b>				
Mean value (Unit)	11.57	34.57	33.95	47.01
Standard Deviation (Unit)	2.78	3.53	0.35	0.2
Standard Error (Unit)	0.1	0.12	0.01	0.01
Area under curve (Unit*sec.)	593.38	1772.94	1740.97	2410.22
<b>50 MINUTE PLACEBO</b>				
Mean value (Unit)	9.58	35.59	52.67	47.78
Standard Deviation (Unit)	1.97	3.18	0.1	0.16
Standard Error (Unit)	0.07	0.11	0	0.01
Area under curve (Unit*sec.)	484.85	1800.54	2664.69	2417.03
<b>60 MINUTE PLACEBO</b>				
Mean value (Unit)	8.99	33.82	55.02	50.6
Standard Deviation (Unit)	2.11	6.96	0.4	0.45
Standard Error (Unit)	0.07	0.24	0.01	0.02
Area under curve (Unit*sec.)	455.18	1712.98	2787.02	2563.31
<b>10 MINUTE CELLIANT</b>				
Mean value (Unit)	8.93	43.3	37.54	59.37
Standard Deviation (Unit)	1.85	3.14	0.27	0.3
Standard Error (Unit)	0.07	0.11	0.01	0.01
Area under curve (Unit*sec.)	444.79	2155.53	1869.08	2955.84



20 MINUTE CELLIAN

Mean value (Unit)	9.53	41.92	38.65	57.8
Standard Deviation (Unit)	1.77	2.95	0.13	0.16
Standard Error (Unit)	0.06	0.1	0	0.01
Area under curve (Unit*sec.)	477.24	2099.87	1936.15	2895.57

30 MINUTE CELLIAN

Mean value (Unit)	9.67	40.85	40.17	59.47
Standard Deviation (Unit)	1.86	3.69	0.34	0.96
Standard Error (Unit)	0.07	0.13	0.01	0.03
Area under curve (Unit*sec.)	474.01	2003.64	1969.91	2915.9

40 MINUTES CELLIAN

Mean value (Unit)	12.06	41.65	40.43	57.87
Standard Deviation (Unit)	2.54	3.65	0.28	0.64
Standard Error (Unit)	0.09	0.13	0.01	0.02
Area under curve (Unit*sec.)	607.67	2099.4	2037.75	2916.84

50 MINUTRE CELLIAN

Mean value (Unit)	13.04	43.7	39.8	59.2
Standard Deviation (Unit)	2.62	3.7	0.4	0.15
Standard Error (Unit)	0.09	0.13	0.01	0.01
Area under curve (Unit*sec.)	637.89	2137.86	1946.79	2895.96

60 MINUTES CELLIAN

Mean value (Unit)	13.61	46.5	50.5	140.59
Standard Deviation (Unit)	3.61	5.91	1.13	2.51
Standard Error (Unit)	0.11	0.17	0.03	0.07
Area under curve (Unit*sec.)	978.71	3343.47	3630.78	10108.81

Patient ID:104	placebo - Celliant			
BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	9.59	27.27	58.95	74.86
Standard Deviation (Unit)	4.17	5.27	0.52	0.61
Standard Error (Unit)	0.15	0.19	0.02	0.02
Area under curve (Unit*sec.)	467.46	1330.34	2876.43	3652.55
10 MIN PLACEBO				
Mean value (Unit)	22.31	43.44	65.31	68.88
Standard Deviation (Unit)	10.72	6.89	0.5	0.16
Standard Error (Unit)	0.39	0.25	0.02	0.01
Area under curve (Unit*sec.)	1057.09	2057.66	3093.45	3262.85
20 MIN PLACEBO				
Mean value (Unit)	19.91	26.3	63.01	64.9
Standard Deviation (Unit)	11.08	7.04	0.65	0.24
Standard Error (Unit)	0.28	0.18	0.02	0.01
Area under curve (Unit*sec.)	1876.28	2478.22	5938.24	6116.34
30 MIN PLACEBO				
Mean value (Unit)	13.19	28.63	67.04	65
Standard Deviation (Unit)	5.24	5.72	1.51	0.98
Standard Error (Unit)	0.14	0.15	0.04	0.03
Area under curve (Unit*sec.)	1147.35	2489.99	5831.53	5654.23
40 MIN PLACEBO				
Mean value (Unit)	11.83	29.71	64.06	63.89
Standard Deviation (Unit)	2.87	17.62	1.09	0.84
Standard Error (Unit)	0.07	0.44	0.03	0.02
Area under curve (Unit*sec.)	1200.52	3015.51	6502.62	6485.27
50 MIN PLACEBO				
Mean value (Unit)	12.13	28.64	66.07	66.32
Standard Deviation (Unit)	6.49	5.6	1.09	0.86
Standard Error (Unit)	0.16	0.14	0.03	0.02
Area under curve (Unit*sec.)	1231.21	2907.27	6706.28	6731.59
60 MIN PLACEBO				
Mean value (Unit)	11.52	27.4	63.88	63.7
Standard Deviation (Unit)	3.33	4.68	0.7	1.02
Standard Error (Unit)	0.12	0.17	0.02	0.04
Area under curve (Unit*sec.)	563.45	1339.87	3124.95	3116.03
10 MIN CELLIANT				
Mean value (Unit)	13.06	29.95	59.11	64.74
Standard Deviation (Unit)	6.26	5.17	0.51	2.42
Standard Error (Unit)	0.23	0.19	0.02	0.09
Area under curve (Unit*sec.)	619.53	1420.55	2803.78	3070.87
20 MIN CELLIANT				
Mean value (Unit)	13.21	28.82	55.27	59.2
Standard Deviation (Unit)	4.51	4.23	0.52	0.59
Standard Error (Unit)	0.16	0.15	0.02	0.02
Area under curve (Unit*sec.)	661.85	1444.08	2768.75	2965.68

30 MIN CELLIANT				
Mean value (Unit)	13.79	26.41	55.19	61.7
Standard Deviation (Unit)	9.57	6.77	1.25	0.46
Standard Error (Unit)	0.33	0.24	0.04	0.02
Area under curve (Unit*sec.)	699.18	1338.76	2798.95	3129.3
40 MIN CELLIANT				
Mean value (Unit)	9.03	33.09	63.95	68.85
Standard Deviation (Unit)	2.84	8.03	0.37	0.38
Standard Error (Unit)	0.1	0.28	0.01	0.01
Area under curve (Unit*sec.)	448.06	1642.01	3172.03	3414.72
50 MIN CELLIANT				
Mean value (Unit)	14.5	31.61	61.32	67.89
Standard Deviation (Unit)	26.64	5.31	0.79	0.52
Standard Error (Unit)	0.94	0.19	0.03	0.02
Area under curve (Unit*sec.)	717.52	1563.87	3034.01	3359.13
60 MIN CELLIANT				
Mean value (Unit)	8.52	31.54	56.9	64.22
Standard Deviation (Unit)	2.5	5.65	1.04	0.69
Standard Error (Unit)	0.09	0.2	0.04	0.02
Area under curve (Unit*sec.)	427.27	1581.51	2853.88	3221.07

Patient ID:105

placebo - Celliant

BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	6.83	12.06	76.89	57.94
Standard Deviation (Unit)	0.58	1.88	0.27	0.18
Standard Error (Unit)	0.02	0.07	0.01	0.01
Area under curve (Unit*sec.)	349.89	617.69	3937.57	2967.1
10 MIN PLACEBO				
Mean value (Unit)	8.72	17.24	67.06	52.94
Standard Deviation (Unit)	2.44	1.29	0.17	0.13
Standard Error (Unit)	0.08	0.04	0.01	0
Area under curve (Unit*sec.)	447.72	884.73	3442.6	2717.89
20 MIN PLACEBO				
Mean value (Unit)	7.63	12.91	69.95	53.39
Standard Deviation (Unit)	0.99	8.66	0.27	0.42
Standard Error (Unit)	0.03	0.3	0.01	0.01
Area under curve (Unit*sec.)	386.29	654.39	3543.14	2704.38
Slope (Unit/sec.)	0.01	-0.11	-0.01	0
30 MIN PLACEBO				
Mean value (Unit)	7.22	9.8	74.77	62.03
Standard Deviation (Unit)	0.61	1.66	0.18	0.43
Standard Error (Unit)	0.02	0.06	0.01	0.01
Area under curve (Unit*sec.)	369.02	500.96	3824.49	3172.94
40 MIN PLACEBO				
Mean value (Unit)	7.32	9.89	72.97	60.38
Standard Deviation (Unit)	0.78	1.41	0.43	0.4
Standard Error (Unit)	0.03	0.05	0.01	0.01
Area under curve (Unit*sec.)	374.1	505.5	3727.86	3084.74
50 MIN PLACEBO				
Mean value (Unit)	7.28	11.94	68.44	57.22
Standard Deviation (Unit)	0.39	1.7	0.35	0.62
Standard Error (Unit)	0.01	0.06	0.01	0.02
Area under curve (Unit*sec.)	372.44	610.92	3500.89	2926.78
60 MIN PLACEBO				
Mean value (Unit)	7.33	12.98	68.36	57.73
Standard Deviation (Unit)	0.4	1.86	0.21	0.34
Standard Error (Unit)	0.01	0.07	0.01	0.01
Maximum value (Unit)	8.24	18.49	68.79	58.47
Area under curve (Unit*sec.)	360.89	638.56	3364.02	2840.72
10 MIN CELLIANT				
Mean value (Unit)	8.39	12.97	67.4	64.54
Standard Deviation (Unit)	0.96	1.22	0.33	0.25
Standard Error (Unit)	0.03	0.04	0.01	0.01
Area under curve (Unit*sec.)	427.72	660.83	3434.87	3289.18
20 MIN HOLE				
Mean value (Unit)	8.21	15.47	68.53	63.36
Standard Deviation (Unit)	0.59	2.04	0.09	0.09

Standard Error (Unit)	0.02	0.07	0	0
Area under curve (Unit*sec.)	414.41	780.64	3458.52	3197.45
30 MIN CELLIANT				
Mean value (Unit)	8.09	13	69.57	61.65
Standard Deviation (Unit)	0.86	1.28	0.09	0.24
Standard Error (Unit)	0.03	0.04	0	0.01
Area under curve (Unit*sec.)	412.29	662.46	3545.72	3141.67
40 MIN CELLIANT				
Mean value (Unit)	7.94	10.71	100.73	63.74
Standard Deviation (Unit)	0.53	1.04	0.11	0.29
Standard Error (Unit)	0.02	0.04	0	0.01
Minimum value (Unit)	6.68	8.36	100.53	63.05
Area under curve (Unit*sec.)	406.62	548.54	5158.38	3264.19
50 MIN CELLIANT				
Mean value (Unit)	12.99	14.31	105.67	62.23
Standard Deviation (Unit)	10.5	3.56	0.46	0.27
Standard Error (Unit)	0.36	0.12	0.02	0.01
Area under curve (Unit*sec.)	667.91	735.84	5431.38	3198.7
60 MIN CELLIANT				
Mean value (Unit)	8.95	10.29	107.61	60.69
Standard Deviation (Unit)	2.4	1.61	0.11	0.18
Standard Error (Unit)	0.08	0.06	0	0.01
Area under curve (Unit*sec.)	456.04	524.2	5484.28	3092.83

Patient ID: 106

placebo - Celliant

BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	4.97	12.13	44.65	55.53
Standard Deviation (Unit)	2.5	7.93	0.5	0.17
Standard Error (Unit)	0.09	0.28	0.02	0.01
Area under curve (Unit*sec.)	250.45	610.53	2248	2795.7
10 MIN PLACEBO				
Mean value (Unit)	6.72	11.8	33.25	55.67
Standard Deviation (Unit)	5.08	13.08	1.14	0.46
Standard Error (Unit)	0.18	0.46	0.04	0.02
Area under curve (Unit*sec.)	339.01	595.11	1675.82	2806.24
20 MIN PLACEBO				
Mean value (Unit)	6.56	18.81	33.39	56.16
Standard Deviation (Unit)	3.11	17.69	0.58	0.5
Standard Error (Unit)	0.11	0.62	0.02	0.02
Area under curve (Unit*sec.)	333.41	955.97	1695.63	2851.61
30 MIN PLACEBO				
Mean value (Unit)	6.58	15.75	31.28	55.92
Standard Deviation (Unit)	2.5	17.71	0.51	0.57
Standard Error (Unit)	0.09	0.62	0.02	0.02
Area under curve (Unit*sec.)	334.68	801	1590.1	2843.11
40 MIN PLACEBO				
Mean value (Unit)	5.61	9.79	40.6	57.55
Standard Deviation (Unit)	1.19	6.29	1.02	0.32
Standard Error (Unit)	0.04	0.22	0.04	0.01
Area under curve (Unit*sec.)	286.31	499.27	2071.89	2936.59
50 MIN PLACEBO				
Mean value (Unit)	5.56	11.51	37.27	60.23
Standard Deviation (Unit)	2.11	3.21	0.74	0.5
Standard Error (Unit)	0.07	0.11	0.03	0.02
Area under curve (Unit*sec.)	281.46	581.88	1885.38	3047.07
60 MIN PLACEBO				
Mean value (Unit)	5.74	11.77	35.16	61.53
Standard Deviation (Unit)	2.03	12.41	0.46	0.57
Standard Error (Unit)	0.07	0.41	0.02	0.02
Area under curve (Unit*sec.)	324.7	665.94	1988.04	3478.76
10 MIN CELLIANT				
Mean value (Unit)	6.72	16.89	22.6	59.07
Standard Deviation (Unit)	2.81	11.83	0.06	0.32
Standard Error (Unit)	0.1	0.41	0	0.01
Area under curve (Unit*sec.)	342.8	862.07	1153.21	3014.17
20 MIN CELLIANT				
Mean value (Unit)	8.77	16.54	24.39	60.86
Standard Deviation (Unit)	2.97	7.36	0.22	0.21
Standard Error (Unit)	0.1	0.26	0.01	0.01
Minimum value (Unit)	3.97	6.84	24.11	60.55

Area under curve (Unit*sec.)	444.86	839.7	1238.67	3090.46
30 MIN CELLIANT				
Item	1 PU #1	2 PU #2	3 pO2 #3	4 pO2 #4
Mean value (Unit)	3.38	12.52	23.67	60.29
Standard Deviation (Unit)	1.68	5.84	0.06	0.42
Standard Error (Unit)	0.06	0.21	0	0.01
Area under curve (Unit*sec.)	167.23	618.67	1169.58	2979.33
40 MIN CELLIANT				
Mean value (Unit)	5.66	20.19	24.11	61.86
Standard Deviation (Unit)	5.75	11.57	0.1	0.58
Standard Error (Unit)	0.2	0.41	0	0.02
Area under curve (Unit*sec.)	283.09	1011.32	1209.52	3102.92
50 MIN CELLIANT				
Item	1 PU #1	2 PU #2	3 pO2 #3	4 pO2 #4
Mean value (Unit)	5.75	14.06	23.58	58.75
Standard Deviation (Unit)	3.19	9.45	0.19	0.43
Standard Error (Unit)	0.11	0.33	0.01	0.02
Area under curve (Unit*sec.)	286.12	700.39	1174.03	2925.03
60 MIN CELLIANT				
Mean value (Unit)	5.89	7.45	23.33	57.99
Standard Deviation (Unit)	2.92	2.55	0.15	0.13
Standard Error (Unit)	0.1	0.09	0.01	0
Area under curve (Unit*sec.)	284.39	359.42	1125.44	2797.23

Patient ID:107

Celliant - placebo

BASELINE

Item	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	3.52	6.05	80.02	63.82
Standard Deviation (Unit)	0.37	0.32	0.35	2.4
Standard Error (Unit)	0.01	0.01	0.01	0.09
Area under curve (Unit*sec.)	170.78	293.47	3879.61	3094.13

10 MIN CELLIANT

Mean value (Unit)	4.04	6.07	60.06	52.45
Standard Deviation (Unit)	0.06	0.46	0.1	0.16
Standard Error (Unit)	0	0.02	0	0.01
Area under curve (Unit*sec.)	190.98	286.62	2837.57	2477.93

20 MIN CELLIANT

Mean value (Unit)	4.31	6.69	61.73	57.14
Standard Deviation (Unit)	0.19	1.03	0.18	0.17
Standard Error (Unit)	0.01	0.04	0.01	0.01
Area under curve (Unit*sec.)	216.08	335.6	3096.23	2865.82

30 MIN CELLIANT

Mean value (Unit)	4.51	5.9	57.26	55.5
Standard Deviation (Unit)	0.15	0.8	0.1	0.22
Standard Error (Unit)	0.01	0.03	0	0.01
Area under curve (Unit*sec.)	227.14	297.47	2886.1	2797.45

40 MIN CELLIANT

Mean value (Unit)	4.54	5.84	58.9	55.27
Standard Deviation (Unit)	0.27	1.35	0.11	0.09
Standard Error (Unit)	0.01	0.05	0	0
Area under curve (Unit*sec.)	227.57	292.61	2950.67	2768.95

50 MIN CELLIANT

Mean value (Unit)	4.41	4.82	56.98	54.73
Standard Deviation (Unit)	0.15	0.23	0.15	0.2
Standard Error (Unit)	0.01	0.01	0.01	0.01
Minimum value (Unit)	4.27	4.52	56.58	54.32
Area under curve (Unit*sec.)	221.8	242.44	2864.96	2752.06

60 MIN CELLIANT

Mean value (Unit)	4.59	6.18	48.35	60.3
Standard Deviation (Unit)	0.37	0.87	0.36	0.31
Standard Error (Unit)	0.01	0.03	0.01	0.01
Area under curve (Unit*sec.)	228.04	306.87	2401.39	2994.84

10 MIN PLACEBO

Mean value (Unit)	4.55	6.92	37.97	62.03
Standard Deviation (Unit)	0.31	4.71	0.23	2.04
Standard Error (Unit)	0.01	0.17	0.01	0.07
Area under curve (Unit*sec.)	227.99	347.09	1904.27	3111.28

20 MIN PLACEBO

Mean value (Unit)	4.53	5.56	36.89	65.09
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Standard Deviation (Unit)	0.52	0.2	0.45	1.24
Standard Error (Unit)	0.02	0.01	0.02	0.04
Area under curve (Unit*sec.)	226.19	277.55	1841.35	3248.56
30 MIN PLACEBO				
Mean value (Unit)	5.01	4.89	38.65	64.81
Standard Deviation (Unit)	1.49	0.32	0.4	1.65
Standard Error (Unit)	0.05	0.01	0.01	0.06
Area under curve (Unit*sec.)	250.25	244.58	1931.42	3238.84
40 MIN PLACEBO				
Mean value (Unit)	4.54	5.83	37.83	62.23
Standard Deviation (Unit)	0.5	0.93	0.04	0.36
Standard Error (Unit)	0.02	0.03	0	0.01
Area under curve (Unit*sec.)	228.01	292.78	1899.64	3125.22
50 MIN PLACEBO				
Mean value (Unit)	4.57	7.16	37.71	62.6
Standard Deviation (Unit)	0.32	2.74	0.07	1.08
Standard Error (Unit)	0.01	0.1	0	0.04
Area under curve (Unit*sec.)	226.17	354.81	1868.13	3100.91
60 MIN PLACEBO				
Mean value (Unit)	4.51	5.44	37.1	63.37
Standard Deviation (Unit)	0.34	0.28	0.15	0.77
Standard Error (Unit)	0.01	0.01	0.01	0.03
Area under curve (Unit*sec.)	226.15	272.75	1860.74	3178.5

Patient ID:108

Celliant - placebo

BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	10.99	12.62	64.67	65.36
Standard Deviation (Unit)	1.58	8.11	0.54	0.33
Standard Error (Unit)	0.06	0.28	0.02	0.01
Area under curve (Unit*sec.)	557.28	640.06	3279.66	3315.06
Duration (sec.)	50.78	50.78	50.78	50.78
10 min CELLIANT				
Mean value (Unit)	19.38	14.83	51.17	51.83
Standard Deviation (Unit)	2.02	6.5	0.93	1.97
Standard Error (Unit)	0.07	0.23	0.03	0.07
Area under curve (Unit*sec.)	976.89	747.25	2579.49	2612.72
20 MIN CELLIANT				
Mean value (Unit)	17.08	11.45	49.79	50.6
Standard Deviation (Unit)	1.6	1.84	0.26	0.28
Standard Error (Unit)	0.06	0.06	0.01	0.01
Area under curve (Unit*sec.)	860.7	577.1	2509.51	2550.36
30 MIN CELLIANT				
Mean value (Unit)	16.32	12.18	49.5	48.66
Standard Deviation (Unit)	1.83	4.92	0.18	0.29
Standard Error (Unit)	0.06	0.17	0.01	0.01
Area under curve (Unit*sec.)	829.66	618.74	2516.66	2473.87
40 MIN CELLIANT				
Mean value (Unit)	17.07	12.71	53.03	50.48
Standard Deviation (Unit)	1.82	7.25	0.75	0.65
Standard Error (Unit)	0.05	0.21	0.02	0.02
Area under curve (Unit*sec.)	1212.43	902.93	3767.74	3586.89
50 MIN CELLIANT 6				
Mean value (Unit)	16.77	19.04	52.31	51.16
Standard Deviation (Unit)	2.71	10.84	0.35	0.5
Standard Error (Unit)	0.09	0.38	0.01	0.02
Area under curve (Unit*sec.)	854.54	970.53	2665.87	2607.19
60 MIN CELLIANT				
Mean value (Unit)	15.99	12.58	55.56	57.65
Standard Deviation (Unit)	1.62	1.9	0.33	0.22
Standard Error (Unit)	0.06	0.07	0.01	0.01
Area under curve (Unit*sec.)	809.26	636.3	2810.94	2916.88
10 MIN PLACEBO				
Mean value (Unit)	12.9	14.1	52.2	164
Standard Deviation (Unit)	1.9	3.18	0.28	7.88
Standard Error (Unit)	0.07	0.11	0.01	0.28
Area under curve (Unit*sec.)	644.7	704.93	2608.34	8197.44
20 MIN PLACEBO				
Mean value (Unit)	13.6	16.22	51.1	43.19
Standard Deviation (Unit)	4	7.43	0.36	0.47
Standard Error (Unit)	0.14	0.26	0.01	0.02

Area under curve (Unit*sec.)	674.31	804.35	2534.63	2142.27
30 MIN PLACEBO				
Mean value (Unit)	13.69	14.34	51.85	44.83
Standard Deviation (Unit)	2.96	4.03	0.12	0.22
Standard Error (Unit)	0.1	0.14	0	0.01
Area under curve (Unit*sec.)	684.38	716.98	2591.1	2240.1
40 MIN PLACEBO				
Mean value (Unit)	12.48	15.28	51.48	44.11
Standard Deviation (Unit)	1.86	5.77	0.36	0.51
Standard Error (Unit)	0.07	0.2	0.01	0.02
Area under curve (Unit*sec.)	622.25	761.74	2565.95	2198.53
50 MIN PLACEBO				
Mean value (Unit)	13.56	16.21	52.09	41.92
Standard Deviation (Unit)	3.79	5.05	0.15	0.26
Standard Error (Unit)	0.13	0.18	0.01	0.01
Area under curve (Unit*sec.)	681.12	814.34	2615.75	2105.18
60 MIN PLACEBO				
Mean value (Unit)	13.9	15.36	54.05	107.15
Standard Deviation (Unit)	2.87	5.2	0.23	8.2
Standard Error (Unit)	0.1	0.18	0.01	0.29
Area under curve (Unit*sec.)	692.65	765.29	2692.18	5337.14

Patient ID:109	placebo - Celliant			
BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	12.37	17.97	69.93	22.66
Standard Deviation (Unit)	1.33	3.93	0.33	1.09
Standard Error (Unit)	0.05	0.14	0.01	0.04
Area under curve (Unit*sec.)	627.48	910.86	3546.44	1149.41
10 MIN PLACEBO				
Mean value (Unit)	10.94	16.36	80.45	39.43
Standard Deviation (Unit)	1.31	4.65	0.42	0.43
Standard Error (Unit)	0.05	0.16	0.02	0.02
Area under curve (Unit*sec.)	542.22	810.41	3985.22	1953.28
Slope (Unit/sec.)	0.02	0.01	-0.01	0.02
20 MIN PLACEBO 3				
Mean value (Unit)	11.01	18.53	78.56	39.61
Standard Deviation (Unit)	1.2	2.43	0.51	0.74
Standard Error (Unit)	0.04	0.09	0.02	0.03
Area under curve (Unit*sec.)	543.17	914.79	3877.33	1954.83
30 MIN PLACEBO				
Mean value (Unit)	11.41	20.12	78.08	39.34
Standard Deviation (Unit)	1.05	2.77	0.56	0.67
Standard Error (Unit)	0.04	0.1	0.02	0.02
Area under curve (Unit*sec.)	559.43	986.78	3829.11	1929.46
40 MIN PLACEBO				
Mean value (Unit)	11.25	18.91	86.07	45.31
Standard Deviation (Unit)	1.01	3.88	0.46	0.39
Standard Error (Unit)	0.03	0.1	0.01	0.01
Area under curve (Unit*sec.)	980.23	1648.17	7501.65	3949.1
50 MIN PLACEBO				
Mean value (Unit)	11.31	16.76	90.1	48.17
Standard Deviation (Unit)	1.19	2.06	1.21	0.53
Standard Error (Unit)	0.03	0.06	0.03	0.01
Area under curve (Unit*sec.)	923.86	1369.05	7361.88	3935.63
60 MIN PLACEBO				
Mean value (Unit)	12.13	20.15	90.4	48.59
Standard Deviation (Unit)	1.21	2.28	0.63	0.44
Standard Error (Unit)	0.04	0.08	0.02	0.02
Area under curve (Unit*sec.)	613.82	1019.33	4573.49	2458.45
10 MIN CELLIANT				
Mean value (Unit)	11.92	14.63	80.47	40.44
Standard Deviation (Unit)	1.42	1.9	2.72	1.24
Standard Error (Unit)	0.05	0.07	0.1	0.04
Area under curve (Unit*sec.)	599.46	735.61	4046.39	2033.34
20 MIN CELLIANT				
Mean value (Unit)	11.88	13.37	72.12	38.02
Standard Deviation (Unit)	0.95	2.01	0.58	0.57
Standard Error (Unit)	0.03	0.07	0.02	0.02

Area under curve (Unit*sec.)	602.5	677.87	3657.6	1928.26
30 MIN CELLIANT				
Mean value (Unit)	11.77	16.7	76.19	42.17
Standard Deviation (Unit)	1.27	2.06	0.99	1.12
Standard Error (Unit)	0.04	0.07	0.03	0.04
Area under curve (Unit*sec.)	592.39	841.03	3835.59	2122.75
40 MIN CELLIANT				
Mean value (Unit)	12.15	11.44	83.75	47.17
Standard Deviation (Unit)	1	0.92	0.68	0.64
Standard Error (Unit)	0.04	0.03	0.02	0.02
Area under curve (Unit*sec.)	609.21	573.86	4200.81	2365.71
50 MIN CELLIANT				
Mean value (Unit)	12.43	18.18	76.08	44.63
Standard Deviation (Unit)	1.38	1.67	0.36	0.25
Standard Error (Unit)	0.05	0.06	0.01	0.01
Area under curve (Unit*sec.)	614.44	898.5	3759.35	2205.23
60 MIN CELLIANT				
Mean value (Unit)	11.87	13.32	88.75	53.17
Standard Deviation (Unit)	1.91	1.82	1.58	0.67
Standard Error (Unit)	0.07	0.06	0.06	0.02
Area under curve (Unit*sec.)	592.94	665.79	4435.1	2657.24

Patient ID:110

Celliant - placebo

BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	6.29	12.12	64.93	52.82
Standard Deviation (Unit)	0.57	1.56	0.77	0.24
Standard Error (Unit)	0.02	0.05	0.03	0.01
Maximum value (Unit)	7.48	15.66	66.35	53.28
Minimum value (Unit)	5.13	8.06	63.78	52.55
Area under curve (Unit*sec.)	321.5	619.35	3317.14	2698.66
Slope (Unit/sec.)	0	0.03	-0.05	-0.02
10 MIN CELLIANT				
Mean value (Unit)	8.38	14.3	90.03	43.66
Standard Deviation (Unit)	0.7	2.06	0.25	0.12
Standard Error (Unit)	0.02	0.07	0.01	0
Area under curve (Unit*sec.)	428.97	732.38	4610.73	2235.98
20 MIN CELLIANT				
Mean value (Unit)	8.69	14.92	100.01	43.02
Standard Deviation (Unit)	0.98	2.13	0.31	0.12
Standard Error (Unit)	0.03	0.07	0.01	0
Area under curve (Unit*sec.)	440.17	755.67	5065.99	2178.95
30 MIN CELLIANT				
Mean value (Unit)	9.12	15.77	84.96	41.59
Standard Deviation (Unit)	0.59	2.17	0.6	0.13
Standard Error (Unit)	0.02	0.08	0.02	0
Area under curve (Unit*sec.)	466.04	805.7	4340.29	2124.97
40 MIN CELLIANT				
Mean value (Unit)	9.36	15.97	89.88	40.61
Standard Deviation (Unit)	0.71	2.96	0.81	0.12
Standard Error (Unit)	0.02	0.1	0.03	0
Area under curve (Unit*sec.)	471.94	805.31	4530.55	2047.06
50 MIN CELLIANT				
Mean value (Unit)	9.33	15.41	89.14	40.4
Standard Deviation (Unit)	0.72	2.58	0.83	0.17
Standard Error (Unit)	0.02	0.09	0.03	0.01
Area under curve (Unit*sec.)	475.87	786.19	4548.24	2061.61
60 MIN CELLIANT				
Mean value (Unit)	9.45	14.8	92.8	40.26
Standard Deviation (Unit)	0.53	2.42	0.26	0.03
Standard Error (Unit)	0.02	0.09	0.01	0
Area under curve (Unit*sec.)	455.86	713.73	4476.48	1942.11
10 MIN PLACEBO				
Mean value (Unit)	8.16	15.96	78.26	48.44
Standard Deviation (Unit)	0.72	2.4	1.72	0.74
Standard Error (Unit)	0.03	0.08	0.06	0.03
Area under curve (Unit*sec.)	414.14	810.73	3974.03	2459.69
20 MIN PLACEBO				
Mean value (Unit)	8.49	17.29	83.83	47.58

Standard Deviation (Unit)	0.85	2.65	2.09	0.88
Standard Error (Unit)	0.03	0.09	0.07	0.03
Area under curve (Unit*sec.)	430.46	877.06	4251.55	2412.81
30 MIN PLACEBO				
Mean value (Unit)	8.56	18.64	83.54	46.22
Standard Deviation (Unit)	0.97	3.92	0.28	0.14
Standard Error (Unit)	0.03	0.14	0.01	0.01
Area under curve (Unit*sec.)	431.51	939.79	4211.12	2329.88
40 MIN PLACEBO				
Mean value (Unit)	8.96	17.94	79.84	42.63
Standard Deviation (Unit)	0.95	2.99	0.65	0.28
Standard Error (Unit)	0.03	0.1	0.02	0.01
Area under curve (Unit*sec.)	456.31	913.03	4064.21	2169.69
50 MIN PLACEBO				
Mean value (Unit)	9.16	20.65	83.29	44.54
Standard Deviation (Unit)	1.04	4.5	0.5	0.08
Standard Error (Unit)	0.04	0.16	0.02	0
Area under curve (Unit*sec.)	465.88	1050.09	4234.54	2264.57
60 MIN PLACEBO				
Mean value (Unit)	9.99	22.16	91.47	48.61
Standard Deviation (Unit)	1.57	6.96	1.86	1.09
Standard Error (Unit)	0.04	0.18	0.05	0.03
Area under curve (Unit*sec.)	897.12	1989.09	8211.3	4363.73

Patient ID:111

Celliant - placebo

BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	33.49	8.71	57.58	68.57
Standard Deviation (Unit)	6.41	2.61	1.93	3.38
Standard Error (Unit)	0.09	0.04	0.03	0.05
Maximum value (Unit)	71.81	42.51	61.22	77.76
Minimum value (Unit)	17.27	5.07	54.87	63.23
Area under curve (Unit*sec.)	10328.53	2684.65	17756.92	21146.53
Slope (Unit/sec.)	0.01	0.01	0.02	0.03
10 MIN CELLIANT				
Mean value (Unit)	25.68	10.68	61.46	28.98
Standard Deviation (Unit)	3.14	2.6	1.09	0.41
Standard Error (Unit)	0.06	0.05	0.02	0.01
Area under curve (Unit*sec.)	4869.38	2025.36	11652.76	5495.14
20 MIN CELLIANT				
Mean value (Unit)	30.11	10.61	59.18	28.57
Standard Deviation (Unit)	4.43	2.14	2.06	1.44
Standard Error (Unit)	0.09	0.04	0.04	0.03
Area under curve (Unit*sec.)	5050.32	1780.16	9925.2	4791.03
30 MIN CELLIANT				
Mean value (Unit)	28.25	9.94	58.3	29.19
Standard Deviation (Unit)	4.34	1.65	2.66	2.33
Standard Error (Unit)	0.08	0.03	0.05	0.04
Area under curve (Unit*sec.)	4738.63	1666.57	9777.08	4895.74
40 MIN CELLIANT				
Mean value (Unit)	26.16	11.55	61.93	33.59
Standard Deviation (Unit)	2.94	2.21	2.88	2.44
Standard Error (Unit)	0.06	0.04	0.06	0.05
Area under curve (Unit*sec.)	4195.76	1853.45	9934.88	5389.17
50 MIN CELLIANT				
Mean value (Unit)	31.71	12.47	60.23	32.63
Standard Deviation (Unit)	2.81	2.27	0.92	0.75
Standard Error (Unit)	0.06	0.05	0.02	0.02
Area under curve (Unit*sec.)	4855.39	1909.35	9221.95	4997.09
60 MIN CELLIANT				
Mean value (Unit)	32.53	12.07	57.38	31.65
Standard Deviation (Unit)	3.11	2.27	0.52	0.71
Standard Error (Unit)	0.07	0.05	0.01	0.02
Area under curve (Unit*sec.)	4271.81	1585.26	7534.79	4155.52
10 MIN PLACEBO				
Mean value (Unit)	13.34	22	50.03	31.34
Standard Deviation (Unit)	2.72	4.44	0.91	0.78



Standard Error (Unit)	0.05	0.08	0.02	0.01
Area under curve (Unit*sec.)	2629.01	4337.03	9861.82	6176.8
20 MIN PLACEBO				
Mean value (Unit)	15.35	18.41	50.46	31.39
Standard Deviation (Unit)	4.78	3	0.62	0.64
Standard Error (Unit)	0.09	0.06	0.01	0.01
Area under curve (Unit*sec.)	2689.27	3225.25	8840.61	5499.54
30 MIN PLACEBO				
Mean value (Unit)	14.99	15.01	51.53	32.62
Standard Deviation (Unit)	1.89	2.93	0.71	0.7
Standard Error (Unit)	0.03	0.05	0.01	0.01
Area under curve (Unit*sec.)	2954.92	2958.87	10157.22	6430.27
40 MIN PLACEBO				
Mean value (Unit)	17.76	11.82	51.37	32.11
Standard Deviation (Unit)	5.01	2.05	0.69	0.68
Standard Error (Unit)	0.09	0.04	0.01	0.01
Area under curve (Unit*sec.)	3241.05	2157.53	9375.34	5860.34
50 MIN PLACEBO				
Mean value (Unit)	16.83	16.81	51.45	33.53
Standard Deviation (Unit)	1.75	4.54	1.03	0.7
Standard Error (Unit)	0.03	0.08	0.02	0.01
Area under curve (Unit*sec.)	3808.88	3805.03	11644.76	7589.4
60 MIN PLACEBO				
Mean value (Unit)	17.34	16.89	47.43	32.54
Standard Deviation (Unit)	1.34	2.78	0.91	0.58
Standard Error (Unit)	0.02	0.05	0.02	0.01
Area under curve (Unit*sec.)	3545.38	3452.11	9695.11	6652.54

Patient ID: 112

placebo - Celliant

BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	16.01	40.53	57.54	61.8
Standard Deviation (Unit)	2.99	13.56	0.35	0.51
Standard Error (Unit)	0.11	0.48	0.01	0.02
Area under curve (Unit*sec.)	795.15	2012.84	2857.73	3069
Slope (Unit/sec.)	0.08	0.76	0.02	0.03
10 MIN PLACEBO				
Mean value (Unit)	19.81	65.83	54.54	62.38
Standard Deviation (Unit)	6.77	7.89	0.6	0.68
Standard Error (Unit)	0.24	0.28	0.02	0.02
Area under curve (Unit*sec.)	992.65	3298.75	2732.23	3125.17
Slope (Unit/sec.)	0	-0.03	-0.04	-0.05
20 MIN PLACEBO				
Mean value (Unit)	14.44	49.46	55.21	63.29
Standard Deviation (Unit)	3.32	18.21	0.07	0.09
Standard Error (Unit)	0.12	0.65	0	0
Area under curve (Unit*sec.)	712.62	2441.15	2724.49	3123.51
30 MIN PLACEBO				
Mean value (Unit)	11.53	39.22	57.25	64.08
Standard Deviation (Unit)	0.75	6.95	0	0.04
Standard Error (Unit)	0.03	0.24	0	0
Area under curve (Unit*sec.)	577.31	1964.84	2868.05	3210.11
40 MIN PLACEBO				
Mean value (Unit)	14.72	36.98	56.43	62.96
Standard Deviation (Unit)	3.19	4.27	0.08	0.07
Standard Error (Unit)	0.11	0.15	0	0
Area under curve (Unit*sec.)	744.55	1871.41	2854.91	3185.09
50 MIN PLACEBO				
Mean value (Unit)	13.29	16.18	56.11	62.44
Standard Deviation (Unit)	2.71	9.12	0.15	0.2
Standard Error (Unit)	0.1	0.32	0.01	0.01
Area under curve (Unit*sec.)	670.14	815.61	2828.5	3147.15
60 MIN PLACEBO				
Mean value (Unit)	14.82	24.93	57.97	62.27
Standard Deviation (Unit)	4.36	2.89	0.61	0.14
Standard Error (Unit)	0.15	0.1	0.02	0
Area under curve (Unit*sec.)	750.88	1262.79	2936.45	3154.07
10 MIN CELLIANT				
Mean value (Unit)	13.27	37.71	63	67.08
Standard Deviation (Unit)	2.12	5.25	0.26	0.27
Standard Error (Unit)	0.07	0.19	0.01	0.01
Area under curve (Unit*sec.)	658.29	1870.75	3125.01	3327.29
20 MIN CELLIANT				
Mean value (Unit)	15.16	29.61	59.56	64.89
Standard Deviation (Unit)	3.71	7.88	0.04	0.13

Standard Error (Unit)	0.13	0.28	0	0
Area under curve (Unit*sec.)	759.79	1484.62	2983.51	3250.59
30 MIN CELLIANT				
Mean value (Unit)	15.61	24.5	60.51	65
Standard Deviation (Unit)	2.6	4.56	0.75	0.51
Standard Error (Unit)	0.09	0.16	0.03	0.02
Area under curve (Unit*sec.)	781.98	1227.67	3031.34	3256.38
40 MIN CELLIANT				
Mean value (Unit)	13.91	28.46	60.96	65.65
Standard Deviation (Unit)	3	5.51	0.19	0.19
Standard Error (Unit)	0.11	0.19	0.01	0.01
50 MIN CELLIANT				
Mean value (Unit)	17.37	27.45	63.52	67.55
Standard Deviation (Unit)	6.72	4.78	1.02	0.72
Standard Error (Unit)	0.24	0.17	0.04	0.03
Area under curve (Unit*sec.)	871.64	1377.42	3186.25	3388.11
60 MIN CELLIANT				
Mean value (Unit)	14.3	28.04	60.31	64.34
Standard Deviation (Unit)	2.5	5.69	0.08	0.11
Standard Error (Unit)	0.09	0.2	0	0
Area under curve (Unit*sec.)	718.24	1408.51	3029.02	3231.07

Patient ID: 113

placebo - Celliant

BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	11.73	37.11	44.18	53.16
Standard Deviation (Unit)	0.6	14.89	0.26	0.23
Standard Error (Unit)	0.02	0.6	0.01	0.01
Area under curve (Unit*sec.)	443.53	1405.21	1670.88	2010.66
10 MIN PLACEBO				
Mean value (Unit)	13.38	11.77	37.79	49.16
Standard Deviation (Unit)	0.98	3.31	0.62	0.86
Standard Error (Unit)	0.04	0.13	0.03	0.03
20M MIN PLACEBO				
Mean value (Unit)	12.79	31.57	36.21	47.2
Standard Deviation (Unit)	0.76	30.34	0.29	0.1
Standard Error (Unit)	0.03	1.25	0.01	0
Area under curve (Unit*sec.)	464.56	1147.38	1315.59	1714.9
30 MIN PLACEBO				
Mean value (Unit)	13.68	10.83	42.7	49.34
Standard Deviation (Unit)	1.25	4.02	0.09	0.16
Standard Error (Unit)	0.05	0.16	0	0.01
Area under curve (Unit*sec.)	522.46	413.97	1630.78	1884.25
40 MIN PLACEBO				
Mean value (Unit)	13.56	23.89	41.05	46.79
Standard Deviation (Unit)	0.94	32.39	0.4	0.5
Standard Error (Unit)	0.04	1.31	0.02	0.02
Area under curve (Unit*sec.)	514.29	907.18	1557.78	1775.61
50 MIN PLACEBO				
Mean value (Unit)	13.11	11.39	44.02	47.54
Standard Deviation (Unit)	0.66	8.92	0.34	0.22
Standard Error (Unit)	0.03	0.36	0.01	0.01
Area under curve (Unit*sec.)	502.26	436.37	1686.68	1821.62
60 MIN PLACEBO				
Mean value (Unit)	13.22	26.59	45.05	49.64
Standard Deviation (Unit)	1.47	17.24	0.15	0.21
Standard Error (Unit)	0.06	0.7	0.01	0.01
Area under curve (Unit*sec.)	502.46	1011.3	1712.09	1886.64
10 MIN CELLIANT				
Mean value (Unit)	15.03	15.44	42.68	44.94
Standard Deviation (Unit)	1.05	5.91	0.19	0.59
Standard Error (Unit)	0.04	0.24	0.01	0.02
Area under curve (Unit*sec.)	559.9	575.51	1590.17	1674.57
20 MIN CELLIANT				

Mean value (Unit)	14.3	26.8	46.36	49.38
Standard Deviation (Unit)	3.32	44.74	0.09	0.59
Standard Error (Unit)	0.13	1.81	0	0.02
Area under curve (Unit*sec.)	539.98	1010.99	1750.52	1864.47
30 MIN CELLIANT				
Mean value (Unit)	14.98	17.83	49.69	60.29
Standard Deviation (Unit)	1.81	7.41	1	0.66
Standard Error (Unit)	0.07	0.3	0.04	0.03
Area under curve (Unit*sec.)	565.73	673.1	1876.23	2276.41
40 MIN CELLIANT				
Mean value (Unit)	14.24	13.77	53.91	59.06
Standard Deviation (Unit)	1.67	13.84	0.14	2.54
Standard Error (Unit)	0.07	0.56	0.01	0.1
Area under curve (Unit*sec.)	536.5	519.01	2032.21	2226.07
50 MIN CELLIANT				
Mean value (Unit)	15.09	19.44	55.61	61.52
Standard Deviation (Unit)	2.35	14.84	0.29	0.18
Standard Error (Unit)	0.1	0.6	0.01	0.01
Area under curve (Unit*sec.)	570.79	735.48	2103.19	2326.66
60 MIN CELLIANT				
Mean value (Unit)	14.49	12.54	52.19	52.64
Standard Deviation (Unit)	1.29	3.37	0.44	0.6
Standard Error (Unit)	0.05	0.14	0.02	0.02
Area under curve (Unit*sec.)	551.5	476.94	1986.72	2003.69

Patient ID: 114

Celliant - placebo

BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	16.16	29.8	53.82	26.28
Standard Deviation (Unit)	1.21	5.2	0.88	0.25
Standard Error (Unit)	0.05	0.22	0.04	0.01
Area under curve (Unit*sec.)	569.29	1049.13	1895.28	925.65
10 MIN CELLIANT				
Mean value (Unit)	28.72	47.2	49.62	48.58
Standard Deviation (Unit)	1.08	30.98	0.23	0.3
Standard Error (Unit)	0.04	1.26	0.01	0.01
Area under curve (Unit*sec.)	1066.78	1753.81	1842.96	1804.27
20 MIN CELLIANT				
Mean value (Unit)	23.56	21.1	53.96	49.08
Standard Deviation (Unit)	1.88	8.68	0.38	0.23
Standard Error (Unit)	0.08	0.35	0.02	0.01
Area under curve (Unit*sec.)	885.25	792.98	2027.29	1844.15
30 MIN CELLIANT				
Mean value (Unit)	24.46	23.72	53.66	51.29
Standard Deviation (Unit)	5.94	3.84	0.21	0.12
Standard Error (Unit)	0.28	0.18	0.01	0.01
Area under curve (Unit*sec.)	684.21	663.36	1500.47	1434.21
40 MIN CELLIANT				
Mean value (Unit)	22.82	25.35	55.94	52.34
Standard Deviation (Unit)	1.23	4.94	0.12	0.12
Standard Error (Unit)	0.06	0.22	0.01	0.01
Area under curve (Unit*sec.)	697.48	774.94	1709.74	1599.74
50 MIN CELLIANT				
Mean value (Unit)	23.18	22.17	58.83	55.01
Standard Deviation (Unit)	1.78	2.96	1.58	0.46
Standard Error (Unit)	0.07	0.12	0.06	0.02
Area under curve (Unit*sec.)	865.23	827.2	2195.65	2053.21
60 MIN CELLIANT				
Mean value (Unit)	23.22	34.93	61.01	59.54
Standard Deviation (Unit)	1.79	36.16	0.4	0.19
Standard Error (Unit)	0.07	1.47	0.02	0.01
Area under curve (Unit*sec.)	865.21	1302.78	2273.16	2218.5
10 MIN PLACEBO				
Mean value (Unit)	25.53	18.31	57.44	61.32
Standard Deviation (Unit)	2	2.59	0.56	0.69
Standard Error (Unit)	0.08	0.11	0.02	0.03
Area under curve (Unit*sec.)	925.79	664.25	2083.34	2223.99
20 MIN PLACEBO				
Mean value (Unit)	23.72	23.8	58.36	63.01
Standard Deviation (Unit)	1.47	3.55	0.06	0.13
Standard Error (Unit)	0.06	0.15	0	0.01
Area under curve (Unit*sec.)	776.45	778.68	1910.64	2062.73

Slope (Unit/sec.)	0.04	0.04	0	0.01
30M MIN PLACEBO				
Mean value (Unit)	23.61	22.49	59.07	61.56
Standard Deviation (Unit)	1.49	4.2	0.41	0.16
Standard Error (Unit)	0.06	0.18	0.02	0.01
Area under curve (Unit*sec.)	834.35	794.72	2087.6	2175.4
40 MIN PLACEBO				
Mean value (Unit)	27.04	22.16	64.38	65.88
Standard Deviation (Unit)	2.05	3.85	0.67	0.18
Standard Error (Unit)	0.08	0.16	0.03	0.01
Area under curve (Unit*sec.)	1009.22	826.95	2402.88	2459.07
50 MIN PLACEBO				
Mean value (Unit)	26.4	25.38	61.35	62.59
Standard Deviation (Unit)	1.85	6.67	0.14	0.09
Standard Error (Unit)	0.08	0.28	0.01	0
Area under curve (Unit*sec.)	959.01	922.03	2228.99	2273.99
60 MIN PLACEBO				
Mean value (Unit)	28	22.28	62.41	60.32
Standard Deviation (Unit)	1.61	2.87	0.58	0.11
Standard Error (Unit)	0.07	0.12	0.02	0
Area under curve (Unit*sec.)	973.76	775.08	2170.64	2098.21

Patient ID:115

Celliant - placebo

BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	8.01	74	59.65	61.72
Standard Deviation (Unit)	1.56	7.98	0.33	0.52
Standard Error (Unit)	0.07	0.34	0.01	0.02
Area under curve (Unit*sec.)	273.12	2523.81	2034.05	2104.71
10 MIN CELLIANT				
Mean value (Unit)	8.98	97.65	50.25	52.22
Standard Deviation (Unit)	1.26	7.4	0.17	0.13
Standard Error (Unit)	0.04	0.26	0.01	0
Area under curve (Unit*sec.)	457.48	4976.38	2560.96	2661.17
20 MIN CELLIANT				
Mean value (Unit)	9.42	96.64	49.54	51.55
Standard Deviation (Unit)	1.21	6.74	0.05	0.1
Standard Error (Unit)	0.05	0.26	0	0
Area under curve (Unit*sec.)	402.27	4128.6	2116.07	2202.22
30 MIN CELLIANT				
Mean value (Unit)	13.03	103.33	49.93	51.77
Standard Deviation (Unit)	12.79	7.62	0.19	0.16
Standard Error (Unit)	0.41	0.25	0.01	0.01
Area under curve (Unit*sec.)	774.99	6143.45	2968.93	3078.16
40 MIN CELLIANT				
Mean value (Unit)	12.19	104.22	52.59	54.61
Standard Deviation (Unit)	2.28	10.22	0.45	0.51
Standard Error (Unit)	0.07	0.31	0.01	0.02
Area under curve (Unit*sec.)	797.03	6816.43	3439.7	3571.91
50 MIN CELLIANT				
Mean value (Unit)	13.19	108.65	53.26	55.23
Standard Deviation (Unit)	2.2	10.52	0.29	0.29
Standard Error (Unit)	0.07	0.33	0.01	0.01
Area under curve (Unit*sec.)	836.74	6891.66	3378.19	3503.05
60 MIN CELLIANT				
Mean value (Unit)	14.97	107.18	55.44	58.77
Standard Deviation (Unit)	3.1	10.43	0.32	0.22
Standard Error (Unit)	0.09	0.32	0.01	0.01
Area under curve (Unit*sec.)	1010.21	7234.09	3742.32	3967.38
10 MIN PLACEBO				
Mean value (Unit)	21.3	100.68	58.51	62
Standard Deviation (Unit)	4.84	33.08	0.29	0.51
Standard Error (Unit)	0.15	1.05	0.01	0.02
Area under curve (Unit*sec.)	1308.59	6185.51	3595.11	3809.65
20 MIN PLACEBO				
Mean value (Unit)	21.82	110.34	57.2	59.93
Standard Deviation (Unit)	4.03	22.22	0.3	0.3
Standard Error (Unit)	0.13	0.69	0.01	0.01
Area under curve (Unit*sec.)	1383.84	6998.02	3627.8	3801.03



30 MIN PLACEBO				
Mean value (Unit)	24.02	119.21	57.44	59.5
Standard Deviation (Unit)	4.86	29.74	0.22	0.28
Standard Error (Unit)	0.16	0.96	0.01	0.01
Area under curve (Unit*sec.)	1427.97	7087.93	3415.21	3537.56
40 MIN PLACEBO				
Mean value (Unit)	26.29	102.83	57.06	59.07
Standard Deviation (Unit)	5.46	17.63	0.23	0.25
Standard Error (Unit)	0.17	0.54	0.01	0.01
Area under curve (Unit*sec.)	1719.79	6726.44	3732.44	3863.84
50 MIN PLACEBO				
Mean value (Unit)	24.5	112.79	56.39	58.63
Standard Deviation (Unit)	5.63	38.24	0.25	0.41
Standard Error (Unit)	0.18	1.21	0.01	0.01
Area under curve (Unit*sec.)	1506.26	6934.67	3466.66	3604.71
60 MIN PLACEBO				
Mean value (Unit)	25.4	94.83	58.13	60.06
Standard Deviation (Unit)	5.18	23.13	0.48	0.6
Standard Error (Unit)	0.15	0.68	0.01	0.02
Area under curve (Unit*sec.)	1816.98	6780.63	4158.57	4296.31

Patient ID:116

placebo - Celliant

BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	7.41	8.01	87.64	3.96
Standard Deviation (Unit)	6.55	0.79	0.44	0.19
Standard Error (Unit)	0.16	0.02	0.01	0
Area under curve (Unit*sec.)	764.23	825.69	9036.03	408.23
GENERAL CALCULATIONS : AREA 2				
Mean value (Unit)	6.4	27.82	83	7.83
Standard Deviation (Unit)	7.08	13.25	1.09	0.21
Standard Error (Unit)	0.25	0.46	0.04	0.01
Area under curve (Unit*sec.)	323.81	1406.45	4193.85	395.74
GENERAL CALCULATIONS : AREA 3				
Mean value (Unit)	10.5	35.26	80.84	8.39
Standard Deviation (Unit)	17.81	5.49	0.4	0.38
Standard Error (Unit)	0.63	0.19	0.01	0.01
Area under curve (Unit*sec.)	515.83	1731.63	3969.49	412.08
GENERAL CALCULATIONS : AREA 4				
Mean value (Unit)	5.47	28.88	78.47	6.85
Standard Deviation (Unit)	0.7	12.07	0.27	1.34
Standard Error (Unit)	0.02	0.42	0.01	0.05
Area under curve (Unit*sec.)	279.74	1476.97	4013.99	350.46
GENERAL CALCULATIONS : AREA 5				
Mean value (Unit)	6.3	21.09	85.28	3.87
Standard Deviation (Unit)	0.48	13.81	1.99	0.57
Standard Error (Unit)	0.02	0.48	0.07	0.02
Area under curve (Unit*sec.)	321.65	1077.17	4356.58	197.95
GENERAL CALCULATIONS : AREA 6				
Mean value (Unit)	6.13	29.34	77.64	6.47
Standard Deviation (Unit)	0.96	10.12	0.35	0.71
Standard Error (Unit)	0.03	0.36	0.01	0.03
Area under curve (Unit*sec.)	291.96	1397.47	3696.87	308.07
GENERAL CALCULATIONS : AREA 7				
Mean value (Unit)	6.2	40.39	85.05	2.62
Standard Deviation (Unit)	3.4	32.59	1.12	0.11
Standard Error (Unit)	0.12	1.17	0.04	0
Area under curve (Unit*sec.)	296.25	1927.41	4060.2	124.92
Mean value (Unit)	5.65	36.77	77.14	4.02
Standard Deviation (Unit)	0.47	16.61	0.93	0.12
Standard Error (Unit)	0.02	0.75	0.04	0.01
Area under curve (Unit*sec.)	172.76	1123.05	2358.01	122.96
GENERAL CALCULATIONS : AREA 9				
Mean value (Unit)	5.84	55.19	80.92	4.04

Standard Deviation (Unit)	0.85	19.91	0.55	0.73
Standard Error (Unit)	0.02	0.45	0.01	0.02
Area under curve (Unit*sec.)	695.29	6574.94	9637.78	481.01

GENERAL CALCULATIONS : AREA 10

Mean value (Unit)	6.23	65.39	90.3	4.12
Standard Deviation (Unit)	2.01	50.18	0.41	0.45
Standard Error (Unit)	0.07	1.75	0.01	0.02
Area under curve (Unit*sec.)	318.79	3345.68	4618.86	210.69

GENERAL CALCULATIONS : AREA 11

Mean value (Unit)	6.05	40.51	93.24	3.9
Standard Deviation (Unit)	0.79	17.22	0.16	0.33
Standard Error (Unit)	0.03	0.61	0.01	0.01
Area under curve (Unit*sec.)	297.11	1989.82	4578.62	191.71

GENERAL CALCULATIONS : AREA 12

Mean value (Unit)	6.1	25.81	98.14	6.4
Standard Deviation (Unit)	1.02	22.14	0.25	0.48
Standard Error (Unit)	0.04	0.77	0.01	0.02
Area under curve (Unit*sec.)	311.99	1321.22	5019.89	327.57

GENERAL CALCULATIONS : AREA 13

Mean value (Unit)	5.98	30.97	94.84	6.38
Standard Deviation (Unit)	0.95	20.91	0.48	0.24
Standard Error (Unit)	0.03	0.73	0.02	0.01
Area under curve (Unit*sec.)	305.18	1580.65	4839.29	325.37

GENERAL CALCULATIONS : AREA 14

Mean value (Unit)	6.11	33.9	92.84	4.68
Standard Deviation (Unit)	0.67	11.63	1.54	0.35
Standard Error (Unit)	0.02	0.4	0.05	0.01
Area under curve (Unit*sec.)	312.45	1733.61	4748.48	239.43

Patient ID:117

Celliant - placebo

BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	16.44	56.95	52.26	11.02
Standard Deviation (Unit)	2.73	5.94	0.32	0.08
Standard Error (Unit)	0.13	0.28	0.02	0
Area under curve (Unit*sec.)	449.51	1557.22	1428.92	301.3
10 MIN CELLIANT				
Mean value (Unit)	28.09	57.14	45.32	8.1
Standard Deviation (Unit)	2.3	5.74	0.1	0.12
Standard Error (Unit)	0.1	0.26	0	0.01
Area under curve (Unit*sec.)	879.4	1789.04	1418.89	253.64
20 MIN CELLIANT				
Mean value (Unit)	32.55	62.1	45.13	6.71
Standard Deviation (Unit)	2.98	10.82	0.13	0.01
Standard Error (Unit)	0.12	0.45	0.01	0
Area under curve (Unit*sec.)	1168.61	2229.22	1620.09	241.01
30 MIN CELLIANT				
Mean value (Unit)	31.87	63.74	44.1	7.75
Standard Deviation (Unit)	2.61	6.48	0.14	0
Standard Error (Unit)	0.12	0.29	0.01	0
Area under curve (Unit*sec.)	983.99	1968.15	1361.57	239.33
40 MIN CELLIANT				
Mean value (Unit)	31.84	59.1	42.44	5.46
Standard Deviation (Unit)	2.28	6.92	0.06	0.16
Standard Error (Unit)	0.1	0.3	0	0.01
Area under curve (Unit*sec.)	1026.69	1905.51	1368.12	176.01
50 MIN CELLIANT				
Mean value (Unit)	24.35	68.6	43.17	3.88
Standard Deviation (Unit)	1.3	4.9	0.44	0.12
Standard Error (Unit)	0.06	0.21	0.02	0.01
Area under curve (Unit*sec.)	795.71	2241.93	1410.59	126.72
60 MIN CELLIANT				
Mean value (Unit)	28.58	77.73	43.03	4.14
Standard Deviation (Unit)	3.11	4.23	0.32	0.14
Standard Error (Unit)	0.14	0.18	0.01	0.01
Area under curve (Unit*sec.)	934.08	2539.68	1405.82	135.37
10 MIN PLACEBO				
Mean value (Unit)	26.63	67.56	39.01	5.79
Standard Deviation (Unit)	1.2	90.84	0.39	0.12
Standard Error (Unit)	0.06	4.33	0.02	0.01
Area under curve (Unit*sec.)	726.47	1845.6	1064.31	157.92
20 MIN PLACEBO				
Mean value (Unit)	29.83	26.3	39.28	5.85
Standard Deviation (Unit)	1.74	2.51	0.12	0.19
Standard Error (Unit)	0.07	0.1	0	0.01
Area under curve (Unit*sec.)	1083.71	955.64	1427.11	212.48

30 MIN PLACEBO				
Mean value (Unit)	23.12	34.13	41.55	1.77
Standard Deviation (Unit)	2.09	7.75	0.5	0.11
Standard Error (Unit)	0.09	0.33	0.02	0
Area under curve (Unit*sec.)	789.82	1165.97	1419.51	60.42
40 MIN PLACEBO				
Mean value (Unit)	12.47	22.62	42.59	2.24
Standard Deviation (Unit)	2.26	2.81	0.32	0.1
Standard Error (Unit)	0.1	0.13	0.01	0
Area under curve (Unit*sec.)	368.78	668.97	1259.43	66.17
50 MIN PLACEBO				
Mean value (Unit)	11.83	22.53	44.05	2.84
Standard Deviation (Unit)	5.63	2.79	0.7	0.12
Standard Error (Unit)	0.23	0.11	0.03	0
Area under curve (Unit*sec.)	440.22	838.4	1638.59	105.76
60 MIN PLACEBO				
Mean value (Unit)	10.76	25.18	42.46	1.95
Standard Deviation (Unit)	1.46	1.86	0.22	0
Standard Error (Unit)	0.06	0.08	0.01	0
Area under curve (Unit*sec.)	380.94	891.19	1503.29	69.14

Patient ID:118

placebo - Celliant

RECORDING INFORMATION

BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	15.59	41.17	31.08	49.12
Standard Deviation (Unit)	1.53	6.23	1.44	1.37
Standard Error (Unit)	0.03	0.14	0.03	0.03
Area under curve (Unit*sec.)	1918.73	5067.54	3825.09	6045.28
10 MIN PLACEBO				
Mean value (Unit)	17.21	52.38	14.69	45.45
Standard Deviation (Unit)	1.45	4.66	0.96	0.47
Standard Error (Unit)	0.03	0.09	0.02	0.01
Area under curve (Unit*sec.)	2596.41	7900.42	2216.16	6855.66
20 MIN PLACEBO				
Mean value (Unit)	16.38	48.01	11.81	47.41
Standard Deviation (Unit)	1.49	10.4	0.77	0.74
Standard Error (Unit)	0.03	0.19	0.01	0.01
Area under curve (Unit*sec.)	2991.91	8767.94	2155.54	8657.17
30 MIN PLACEBO				
Mean value (Unit)	24.19	49.18	13.06	48.14
Standard Deviation (Unit)	29.59	9.07	0.79	0.3
Standard Error (Unit)	0.55	0.17	0.01	0.01
Area under curve (Unit*sec.)	4418.24	8979.26	2384.3	8789.47
40 MIN PLACEBO				
Mean value (Unit)	21.59	50.58	14.66	50.69
Standard Deviation (Unit)	17.23	8.07	1.27	0.38
Standard Error (Unit)	0.32	0.15	0.02	0.01
Area under curve (Unit*sec.)	3941.82	9234.92	2677.09	9255.53
50 MIN PLACEBO				
Mean value (Unit)	22.26	48.09	14.69	51.32
Standard Deviation (Unit)	9.22	11.02	1.23	0.77
Standard Error (Unit)	0.17	0.21	0.02	0.01
Area under curve (Unit*sec.)	3887.79	8400.42	2564.92	8963.13
60 MIN PLACEBO				
Mean value (Unit)	32.42	45.58	20.07	53.5
Standard Deviation (Unit)	41.87	11.34	0.85	0.67
Standard Error (Unit)	0.73	0.2	0.01	0.01
Area under curve (Unit*sec.)	6693.43	9409.93	4142.42	11043.63
10 MIN CELLIANT				
Mean value (Unit)	64.13	32.45	33.81	56.45
Standard Deviation (Unit)	64.22	19.46	1.25	1.88
Standard Error (Unit)	1.18	0.36	0.02	0.03
Area under curve (Unit*sec.)	11726.08	5933.78	6182.08	10322.27
20 MIN CELLIANT				
Mean value (Unit)	40.82	37.76	29.93	54.97
Standard Deviation (Unit)	3.67	9.1	1.88	0.75
Standard Error (Unit)	0.07	0.17	0.03	0.01

Area under curve (Unit*sec.)	7464.39	6904.57	5473.22	10050.86
30 MIN CELLIANT				
Mean value (Unit)	37.24	40.67	30.64	57.15
Standard Deviation (Unit)	3.53	9.68	1.01	0.45
Standard Error (Unit)	0.06	0.17	0.02	0.01
Area under curve (Unit*sec.)	7400.81	8084.58	6090.49	11358.87
40 MIN CELLIANT				
Mean value (Unit)	38.26	40.09	31.63	55.42
Standard Deviation (Unit)	7.69	7.08	1.44	0.69
Standard Error (Unit)	0.13	0.12	0.02	0.01
Area under curve (Unit*sec.)	7908.95	8286.38	6537.93	11454.59
50 MIN CELLIANT				
Mean value (Unit)	42.18	47.87	47.79	60.48
Standard Deviation (Unit)	4.38	4.97	3.93	2.58
Standard Error (Unit)	0.08	0.09	0.07	0.05
Area under curve (Unit*sec.)	8383.18	9514.03	9498.73	12020.27
60 MIN CELLIANT				
Mean value (Unit)	41.98	47.64	44.73	63.55
Standard Deviation (Unit)	4.23	4.51	1.47	1.12
Standard Error (Unit)	0.09	0.09	0.03	0.02
Area under curve (Unit*sec.)	6006.76	6815.94	6400.53	9092.94

Patient ID:119

placebo - Celliant

BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	23.52	50.95	54.36	50.72
Standard Deviation (Unit)	2.67	21.02	1.12	0.64
Standard Error (Unit)	0.21	1.62	0.09	0.05
Area under curve (Unit*sec.)	243.36	528.2	562.72	525.14
10 MIN PLACEBO				
Mean value (Unit)	35.19	76.8	57.98	67.63
Standard Deviation (Unit)	12.13	29.13	0.29	0.29
Standard Error (Unit)	0.39	0.92	0.01	0.01
Area under curve (Unit*sec.)	2162.32	4714.42	3562.3	4155.21
20 MIN PLACEBO				
Mean value (Unit)	33.85	126.84	62.51	71.14
Standard Deviation (Unit)	15.21	114.56	1.14	1.61
Standard Error (Unit)	0.47	3.55	0.04	0.05
Area under curve (Unit*sec.)	2180.64	8174.5	4026.65	4582.78
30 MIN PLACEBO				
Mean value (Unit)	28.81	108.01	64.33	71.53
Standard Deviation (Unit)	9.77	54.75	0.52	0.81
Standard Error (Unit)	0.31	1.75	0.02	0.03
Area under curve (Unit*sec.)	1740.39	6528.88	3889.06	4323.97
40 MIN PLACEBO				
Mean value (Unit)	23.71	81.12	66.85	72.59
Standard Deviation (Unit)	6.25	22.46	0.93	0.97
Standard Error (Unit)	0.2	0.71	0.03	0.03
Area under curve (Unit*sec.)	1457.23	4984.26	4107.54	4460.26
50 MIN PLACEBO				
Mean value (Unit)	24.28	95.78	69.06	74.7
Standard Deviation (Unit)	7.34	15.73	0.26	0.24
Standard Error (Unit)	0.23	0.5	0.01	0.01
Area under curve (Unit*sec.)	1467.4	5790.62	4174.97	4515.4
60 MIN PLACEBO				
Mean value (Unit)	22.5	94.75	71.84	77
Standard Deviation (Unit)	4.97	24.66	0.72	0.72
Standard Error (Unit)	0.14	0.69	0.02	0.02
Area under curve (Unit*sec.)	1784.94	7516.97	5699.41	6108.26
10 MIN CELLIANT				
Mean value (Unit)	33.48	61.25	67.14	71.64
Standard Deviation (Unit)	11.29	18.59	0.64	0.5
Standard Error (Unit)	0.29	0.47	0.02	0.01
Area under curve (Unit*sec.)	3185.63	5829.21	6389.25	6817.88
20 MIN CELLIANT				
Mean value (Unit)	30.18	62.35	67.26	70.47
Standard Deviation (Unit)	5.45	30.2	0.91	1.13
Standard Error (Unit)	0.14	0.77	0.02	0.03
Area under curve (Unit*sec.)	2872.32	5934.04	6400.84	6706.8



30 MIN CELLIANT				
Mean value (Unit)	29.91	57.79	68.55	69.18
Standard Deviation (Unit)	6.75	33.9	1.78	1.21
Standard Error (Unit)	0.17	0.85	0.04	0.03
Area under curve (Unit*sec.)	2965.03	5729.62	6796.24	6858.19
40 MIN CELLIANT				
Mean value (Unit)	28.85	53.47	68.73	71.72
Standard Deviation (Unit)	5.15	18.13	0.69	0.66
Standard Error (Unit)	0.13	0.46	0.02	0.02
Area under curve (Unit*sec.)	2746.16	5088.82	6541.54	6825.3
50 MIN CELLIANT				
Mean value (Unit)	31.32	53.98	71.36	75.16
Standard Deviation (Unit)	6.79	16.96	1.66	1.59
Standard Error (Unit)	0.15	0.37	0.04	0.04
Area under curve (Unit*sec.)	3974.71	6850.74	9056.87	9539.52
60 MIN CELLIANT				
Mean value (Unit)	31.51	68.69	70.75	75.65
Standard Deviation (Unit)	5.98	50.86	1.25	1.4
Standard Error (Unit)	0.16	1.36	0.03	0.04
Area under curve (Unit*sec.)	2748.83	5993.38	6171.57	6599.18

Patient ID:120

Celliant - placebo

BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	14.62	40.18	48.51	40.05
Standard Deviation (Unit)	7.77	7.89	0.77	1.08
Standard Error (Unit)	0.16	0.16	0.02	0.02
Area under curve (Unit*sec.)	2102.7	5779.24	6977.14	5760.26
10 MIN CELLIANT				
Mean value (Unit)	28.53	83.34	39.28	36.6
Standard Deviation (Unit)	9.34	68.95	2.18	0.93
Standard Error (Unit)	0.3	2.21	0.07	0.03
Area under curve (Unit*sec.)	1724.87	5038.3	2374.32	2212.52
20 MIN CELLIANT				
Mean value (Unit)	28.54	82.1	39.04	36.32
Standard Deviation (Unit)	9.1	67.49	2.08	1.13
Standard Error (Unit)	0.28	2.11	0.06	0.04
Area under curve (Unit*sec.)	1815.85	5224.97	2483.45	2310.99
30 MIN CELLIANT				
Mean value (Unit)	27.55	83.06	38.51	36.63
Standard Deviation (Unit)	9.97	19.27	0.95	0.75
Standard Error (Unit)	0.18	0.35	0.02	0.01
Area under curve (Unit*sec.)	5284.65	15934.12	7388.58	7027.39
40 MIN CELLIANT				
Item	1 PU #1	2 PU #2	3 pO2 #3	4 pO2 #4
Mean value (Unit)	27.13	84.15	34.32	36.2
Standard Deviation (Unit)	2.22	36.99	3.67	1.08
Standard Error (Unit)	0.07	1.13	0.11	0.03
Area under curve (Unit*sec.)	1801.68	5589.37	2278.5	2403.35
50 MIN CELLIANT				
Mean value (Unit)	27.7	65.54	42.87	40.44
Standard Deviation (Unit)	2	15.21	0.86	0.5
Standard Error (Unit)	0.06	0.48	0.03	0.02
Area under curve (Unit*sec.)	1729.84	4092.9	2676.46	2524.83
60 MIN CELLIANT				
Mean value (Unit)	24.58	60.17	47.49	41.93
Standard Deviation (Unit)	2.96	13.07	1.14	0.57
Standard Error (Unit)	0.09	0.42	0.04	0.02
Area under curve (Unit*sec.)	1510.02	3697.49	2918.27	2576.28
10 MIN PLACEBO				
Mean value (Unit)	24.48	64.62	50.15	51.08
Standard Deviation (Unit)	6.45	15.49	1.36	0.54
Standard Error (Unit)	0.13	0.32	0.03	0.01
Area under curve (Unit*sec.)	3501.99	9244.51	7174.09	7308.01
20 MIN PLACEBO				
Mean value (Unit)	37.31	70.95	47.86	48.42
Standard Deviation (Unit)	6.23	12.9	0.58	0.71
Standard Error (Unit)	0.16	0.33	0.01	0.02

Area under curve (Unit*sec.)	3557.69	6764.93	4564.05	4617.4
30 MIN PLACEBO				
Mean value (Unit)	28.94	71.24	50.17	51.49
Standard Deviation (Unit)	3.82	13.74	0.96	0.6
Standard Error (Unit)	0.12	0.44	0.03	0.02
Area under curve (Unit*sec.)	1720.64	4236.42	2983.25	3061.49
40 MIN PLACEBO				
Mean value (Unit)	21.87	90.2	48.61	50.33
Standard Deviation (Unit)	3.35	38.99	1.45	0.69
Standard Error (Unit)	0.09	0.99	0.04	0.02
Area under curve (Unit*sec.)	2085.7	8600.74	4635.14	4799.81
50 MIN PLACEBO				
Mean value (Unit)	22.24	106.75	45.99	49.16
Standard Deviation (Unit)	16.45	56.96	1.19	0.87
Standard Error (Unit)	0.39	1.34	0.03	0.02
Area under curve (Unit*sec.)	2475.36	11878.13	5116.7	5469.06
60 MIN PLACEBO				
Mean value (Unit)	27.65	79.06	52.92	53.02
Standard Deviation (Unit)	3.82	26.67	1.56	1.19
Standard Error (Unit)	0.09	0.65	0.04	0.03
Area under curve (Unit*sec.)	2850.9	8150.63	5456.89	5466.49

Patient ID:121	placebo - Celliant			
BASELINE	TCOM HAND	LASER HAND	TCOM FOOT	LASER FOOT
Mean value (Unit)	11.2	23.97	25.16	45.37
Standard Deviation (Unit)	0.62	6.12	0.46	0.6
Standard Error (Unit)	0.02	0.21	0.02	0.02
Area under curve (Unit*sec.)	575.41	1231.86	1293.08	2331.88
10 MIN PLACEBO				
Mean value (Unit)	14.15	43.08	8.53	43.96
Standard Deviation (Unit)	1.06	10.11	0.52	0.19
Standard Error (Unit)	0.04	0.35	0.02	0.01
Area under curve (Unit*sec.)	729.86	2222.08	439.98	2267.62
20 MIN PLACEBO				
Mean value (Unit)	15.19	43.84	10.26	43.44
Standard Deviation (Unit)	0.88	11.52	0.37	0.2
Standard Error (Unit)	0.03	0.4	0.01	0.01
Area under curve (Unit*sec.)	776.75	2242.17	524.63	2221.79
30 MIN PLACEBO				
Mean value (Unit)	16.14	43.41	8.78	44.06
Standard Deviation (Unit)	1.5	12.34	0.32	0.48
Standard Error (Unit)	0.05	0.43	0.01	0.02
Area under curve (Unit*sec.)	828.42	2228.4	450.51	2261.66
40 MIN PLACEBO				
Mean value (Unit)	15.29	30.9	12.72	46.69
Standard Deviation (Unit)	1.08	8.39	0.45	0.27
Standard Error (Unit)	0.04	0.29	0.02	0.01
Area under curve (Unit*sec.)	782.91	1582.83	651.3	2390.91
50 MIN PLACEBO				
Mean value (Unit)	14.57	36.58	13.13	45.82
Standard Deviation (Unit)	0.97	8.63	0.41	0.25
Standard Error (Unit)	0.03	0.3	0.01	0.01
Area under curve (Unit*sec.)	746.08	1873.17	672.37	2346.38
60 MIN PLACEBO				
Mean value (Unit)	14.54	35.88	14.19	47.4
Standard Deviation (Unit)	0.89	7.21	0.44	0.24
Standard Error (Unit)	0.03	0.25	0.02	0.01
Area under curve (Unit*sec.)	745.38	1840.17	727.38	2430.56
10 MIN CELLIANT				
Mean value (Unit)	16.17	40.79	21.14	50.58
Standard Deviation (Unit)	5.23	9.34	0.19	0.38
Standard Error (Unit)	0.18	0.33	0.01	0.01
Area under curve (Unit*sec.)	825.03	2080.56	1078.75	2581.12
20 MIN CELLIANT				
Mean value (Unit)	13.3	39.1	25.39	56.38
Standard Deviation (Unit)	2.09	8.46	0.25	0.25
Standard Error (Unit)	0.07	0.29	0.01	0.01

Area under curve (Unit*sec.)	680.17	2001.13	1298.74	2884
30 MIN CELLIANT				
Mean value (Unit)	13.04	39.02	21.29	55.7
Standard Deviation (Unit)	1.34	9.15	0.46	0.37
Standard Error (Unit)	0.05	0.32	0.02	0.01
Area under curve (Unit*sec.)	663.75	1986.12	1083.94	2835.31
40 MIN CELLIANT				
Mean value (Unit)	11.87	43.98	24.71	56.22
Standard Deviation (Unit)	0.99	7.03	0.29	0.43
Standard Error (Unit)	0.03	0.24	0.01	0.01
Area under curve (Unit*sec.)	604.74	2241.77	1259.2	2865.29
50 MIN HOL				
Mean value (Unit)	11.76	47.1	26.25	58.05
Standard Deviation (Unit)	0.77	6.1	0.5	0.51
Standard Error (Unit)	0.03	0.21	0.02	0.02
Area under curve (Unit*sec.)	604.95	2423.57	1350.99	2987.11
60 MIN CELLIANT				
Mean value (Unit)	13.53	36.17	26.13	60.84
Standard Deviation (Unit)	2.45	10.83	0.24	0.94
Standard Error (Unit)	0.09	0.39	0.01	0.03
Area under curve (Unit*sec.)	631.06	1685.51	1218.38	2836.52